# PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS AND PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

# NOTICE OF INTENT (NOI) FOR 2016 NEW SMALL MS4 GENERAL PERMIT PRR040000/PRR040080

2016 SEP 30 AM 9: 35

SEPTEMBER 2016

United States Environmental Protection Agency
National Pollutant Discharge Elimination System
Notice of Intent (NOI) for coverage under the Small Municipal Separate
Storm Sewer System (MS4) General Permit (PRR040000) for Puerto Rico

#### Part A. General Information

1.	Name of Municipality or Organization: Department of Transportation and Public Works/Highway and Transportation Authority
2.	Type: OFederal State Municipality Other:
3.	Existing Permittee:   Yes  No If yes, provide EPA NPDES Permit Number: PRR040 0 8 0
4.	Location Address:
	a. Street: Roberto Sánchez Vilella Government Center
	17 th Floor, South Tower
	b. City: San Juan State: PR Zip Code: 00940-2007
5.	Mailing Address:
	a. Street: P.O. Box 42007
	Minillas Station
	b. City: San Juan State: PR Zip Code: 00940-2007
6.	Telephone Number: (787) 722-2929, Ext. 2050, 2324 Fax:
7.	E-mail:
8.	Standard Industrial Classification (SIC) Code (see instructions for common codes): 9 1 9 9
0	
9.	2.2.4.2 Approximate center of the regulated portion of the MS4.
	1 8 ° 1 3 ′ 2 0 ″ N (degrees, minutes, seconds) 6 6 ° 2 5 ′ 4 9 ″ W (degrees, minutes, seconds)
	Or
	N (degrees decimal) W (degrees decimal)
D D	Duineau MCA Bragram Managar Contact Information
Part b	. Primary MS4 Program Manager Contact Information
1.	Name: Eng. Germán Irizarry Santos
2.	Position Title: Executive Director
3.	Stormwater Management Program (SWMP) Location (web address or physical location):
	DTPW, MS4 Coordinator Office
4.	Mailing Address:
	a. Street: P. O. Box 42007
	Minillas Station
	b. City: San Juan State: PR Zip Code: 00940-2007

5.	Telephone Number: (787) 722-2929, Ext. 2050, 2354			
6.	E-mail:			
Pai	t C. Eligibility Determination			
1.	Endangered Species Act (ESA) determination complete?			
	a. Eligibility Criteria (check all that apply):   A  B  C  D  F			
2.	National Historic Preservation Act (NHPA) determination complete? X Yes No			
	a. Eligibility Criteria (check all that apply):   A  B  C  D			
Pai	t D. Map/Boundaries			
1.	MS4/Organization Description of regulated boundaries (narrative):			
	The MS4 owned by the DTPW/HTA comprises all the state roadways that are located within the limits of the urban areas			
	defined by the U.S. Census. Therefore, in order to provide the required map, the urban areas footprint have been overlayed			
	in the state roads map. It has been included in a CD with this document. Additional information and details about the system			
	have been included in Attachment A of this form.			
2.	Location Map/Boundaries. A location map must be attached showing the pertinent city, town, wards, or			
	boundaries, the boundaries of the Small MS4, including surface water body(s), and the "urbanized area" (UA)			
	when applicable.			
	Is map attached?			
Part E.	MS4 Infrastructure (if covered under the 2006 general permit)			
1.	Estimated Percent of Outfall Map Complete? (Section 4.2.3 of 2006 general permit):			
	a. If 100% of 2006 requirements are not met, enter an estimated date of completion: 2026			
	b. Web address where MS4 map is published: Current outfalls maps are included in the accompanying CD.  If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission.			
Part F.	Bylaw/Ordinance Development (if covered under the 2006 general permit)			
1.	Illicit Discharge Detection and Elimination (IDDE) authority adopted? Yes No			
	a. Effective Date or Estimated Date of Adoption:			
	(MM/DD/YYYY)			

2. Construction/Er	osion and Sediment Con	trol authority adopted?	○ Yes ⊗ No	
a. Effective	Date or Estimated Date	e of Adoption:		
		,	(MM/DD/YYYY)	
3. Post-Construction	on Stormwater Managen	nent adopted?		
a. Effective	Date or Estimated Date	of Adoption:		
			(MM/DD/YYYY)	
art G. Receiving Water	'S			
		which your MS4 discharges		
Waterbody Segment	Number of Outfalls	le, any impairments. You m  Have any monitoring	List of Pollutant(s)	List of TMDL
that receives flow from the MS4	into receiving waterbody segment	been performed to outfalls? (Yes/No)	causing impairment (if applicable)	Pollutant (s) (if any)
		SEE ATTACHMENT A		
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Part H. Summary of Stormwater Management Program (SWMP) under the 2006 Small MS4 General Permit
For every measurable goal and associated Best Management Practice (BMP) listed in the adopted program, provide the following information (You may include additional pages):

BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
			SEE ATACHMENT A	

<u>Public Education and Outreach</u> (See Section 2.4.2 for detailed information of required BMPs):

BMP Description or BMP ID (e.g. MCM-1)	Education Topic (Identify the issue your BMP is educating the public about.)	Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., number mailing sent, people at event, class participation, etc.)
		SEE ATTACHMENT A	

<u>Public Involvement and Participation</u> (See Section 2.4.3 for detailed information of required BMPs):

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will inspire public participation, e.g. special events, volunteer sampling and monitoring efforts, household hazardous waste recycling, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., participation, amount of sampling performed, waste collected, etc.)
	SEE ATTACHMENT A	

Illicit Discharge Detection and Elimination (See Section 2.4.4 for detailed information of required BMPs):

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will indentify and remove illicit connections from the MS4, e.g. new regulations, investigation practices, removal of illicit connections, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., adoption of bylaws/ordinances, amount of investigation performed, identified and removed illicit connections, etc.)
	SEE ATTACHMENT A	
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Construction Site Stormwater Runoff Control (See Section 2.4.5 for detailed information of required BMPs):

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will help control stormwater runoff at construction sites, e.g. new regulations, construction practices, inspection protocols, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., adoption of bylaws/ordinances, amount of inspections performed and sites actively regulated, etc.)
	SEE ATTACHMENT A	

<u>Post-Construction Stormwater Management in New Development and Redevelopment</u> (See Section 2.4.6 for detailed information of required BMPs):

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will control stormwater runoff from properties after they are developed, e.g. new regulations, practices, or resources for contractors to use Low Impact Development (LID), etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., adoption of bylaws/ordinances, amount of implemented practices, development of capacity building resources, etc.)
	SEE ATTACHMENT A	

Part I. <u>2016</u> Stormwater Management Program (SWMP) Summary (continued)

<u>Good Housekeeping and Pollution Prevention in Municipal Operations</u> (See Section 2.4.7 for detailed information of required BMPs):

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will mitigate stormwater runoff at municipal properties ort through municipal activities, e.g. installation of structural stormwater controls on the municipal properties, new practices to reduce pollutant exposure to rain events, runoff management, trainings, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., structural BMPs installed, SOPs developed and implemented, etc.)
	SEE ATTACHMENT A	

# **MORENO ASSOCIATES**

#### **ENVIRONMENTAL AND ENGINEERING CONSULTANTS**

PMB 179 1353 RD. 19 GUAYNABO, PUERTO RICO 00966-2700 Phone: (787) 487-1342 E-mail: dmorenov@hotmail.com

December 13, 2016

Ms. Carmen R. Guerrero Pérez Director Environmental Protection Agency Caribbean Environmental Protection Division City View Plaza -Suite 7000 #48 165 Road km 1.2 San Juan, Puerto Rico 00968-8069

DIGDEC 15 AMIC

RE: NPDES Phase II

Regulated Small Municipal Separate Storm Sewer Systems (MS4)

Department of Transportation and Public Works

Notice of Intent (NOI) Permit PRR040080

Dear Ms. Guerrero:

As per the request of the technical staff, and on behalf of my client, find Part J of the NOI application duly signed by Eng. Miguel A. Torres Díaz, Secretary of the Department of Transportation and Public Works (DTPW).

If additional information regarding to this subject is required, don't hesitate to contact the undersigned at your convenience at (787) 487-1342.

Cordially,

Eng. David Moreno DTPW Consultant

#### Part J. Application Certification and Signature

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 gathered and evaluated 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.

Signature of Mayor/Elected Official:	MAN
Print Name of Mayor/Elected Official:	MIOVEL TIME DIA
Title: Secretary	Date: (2 (3 ()6

Recomended By:

German E. Irizarry Santos, PE

David Moreno Vázquez, PE

12-dic-2016

Fecha

Fecha



#### **ATTACHMENT A**

#### **SUPLEMENTAL INFORMATION FOR NOTICE OF INTENT**

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW)

AND

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY (HTA)

#### 1.0 INTRODUCTION

The July 1, 2016 new Small Municipal Separate Storm Sewer System (MS4) NPDES permit PRR040000 requires the submittal of Notice of Intent (NOI) not later than 90 days after its issuance. Failure to comply with this requirement may result in the loss of coverage for the discharges of stormwater runoff associated with the operation of the MS4 owned by the Department of Transportation and Public Works (DTPW) and the Highway and Transportation Authority (HTA). The DTPW/HTA system is considered as non-conventional MS4 resulting from its unique characteristics. Therefore, this documents intends to provide additional information on those instances in which the space provided by the form is not adequate to include all of the required information. Therefore, this attachment constitutes an extension of the NOI form provided by the U.S. Environmental Protection Agency (EPA).

In order to facilitate the part of the form whose information is being included in this attachment, the specific part of the form will be referenced, immediately followed by the provided information.

#### 2.0 SPECIFIC ITEMS OF THE NOTICE OF INTENT FOR WHICH ADDITIONAL INFORMATION IS BEING PROVIDED

#### Part C: Endangered Species Act (ESA)

At the time of the **NOI** preparation, the **DTPW/PRHTA** cannot certify their compliance with this eligibility requirements. The reason for this statement follows from the fact that the **MS4** inside urban areas owned by the agencies is extensive, covering approximately 72 municipalities of the Island. Since the **U.S. Fish and Wildlife Service (USFWS)** is responsible for the designation and protection of rare and endangered species under provisions of **Section 7** of the **Endangered Species Act (ESA)**, a supporting letter with a determination from this agency seems to constitute the most reasonable way to comply with this eligibility requirement. Since the list of plants and animal species protected by this agency is extensive (**Figure 1** which provides a map illustrating the presence of rare and/or endangered species within the Island) and at the same time covers the entire Island, it is not reasonable to certify compliance with this section until a final letter from this agency is received by the **DTPW/HTA** after completing a total review of the available data. This is especially important since there are some of the protected species such as the sea turtles and the manatees that may be found close to outfalls of the **MS4** owned by the agency. Therefore, until the **USFWS** completes its analysis of the data, it will not be possible to answer yes to this item. However, the **EPA** will be informed of the outcome of this consultation as soon as it is finalized.

#### Part C: National Historic Preservation Act (NHPA)

Based upon a review of the instructions provided in **Appendix D** of the **NOI** to obtain coverage under the terms and conditions of the **2016 MS4 Permit**, and considering that no new construction is being considering that the **DTPW/HTA** meet the eligibility for this regulation under **Criteria A**. It shall be also indicated that the construction of any improvement of the **MS4** resulting from the permit related activities will require to secure the approval and permits of many agencies. The **USFWS** will be consulted about this subject when the time arrives.

#### Part D: Maps/Boundaries

The delineation of the **MS4** coverage area has been made by overlying the urban areas defined by the **U.S. Census Office** on a state roadway map. The original map was developed using data from the 2000 census. Since data from the 2010 Census was available, a comparison of the newest one with the previous one was performed. In addition, information published by the **U.S. Census** regarding to the expansion of urban areas

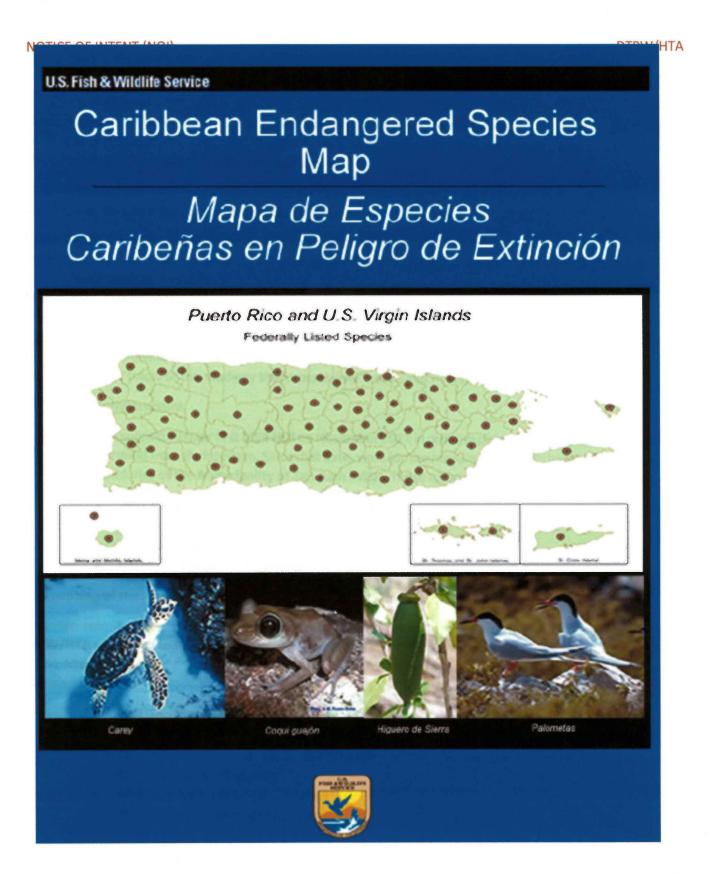


Figure 1: Location of rare/endangered species within Puerto Rico

NOTICE OF INTENT (NOI)

DTPW/HTA

This recent effort has resulted in a total of approximately 66.1 kms. roadways for which outfall maps have been completed. In addition, a total of 84.7 kms. of highway PR-22 outfalls have been mapped up to this date. Therefore, a total of 176.6 kms. of roadways outfalls have been mapped.

Based on information obtained from the **DTPW**, the total highway system of Puerto Rico comprises approximately 14,400 kms. of roads. If we consider that approximately 60% of this system is located within urban areas covered by the **MS4** permit, this means that approximately 8,640 kms. of roadways outfalls are required to be mapped. Based on this estimates the percentage of already mapped area stands at approximately 2.0%.

#### **Part G: Receiving Waters**

The instruction of the **NOI** require to provide list of the names of all surface water bodies to which the **DTPW/HTA MS4** discharges. Considering the fact that the **MS4** of the highway system basically span the entire Island, and not having completed the outfall mapping, the agency has elected to list the totality of the surface bodies of water which was obtained from the **U.S. Geological Survey (USGS)** data. This was obtained from the current **Stormwater Management Program (SWMP)**.

Surface bodies of water, constitute the most important hydrological resource of the Island. There are approximately 102 watersheds which account for 5,394 stream miles and 3,843 estuary acres. There are also 18 lakes with a surface area of approximately 7,378 acres, and twenty (2) lagoons with a 4,768 acres of surface area. In addition, there are 550 miles of shorelines, 22,971 acres of wetlands and 79,096 acres of freshwater wetlands. It is estimated that Puerto Rico has about 224 rivers and more than 4,000 streams that drain a significant amount of rainfall that reach the basins during the year. This implies that a significant volume of surface runoff is generated. The **USGS** operates a network of gauging stations that are used to collect qualitative and quantitative data for each of the drainage basins associated with the surface streams. Therefore, their data is useful to identify the points of discharges of the **MS4**. Since the majority of the Island surface has been designated as urban by the Census, it is reasonable to assume on a preliminary basis, that a majority of the streams located within each of the basins, will be receiving discharges of the **MS4**'s operated by the agency. According the to the Water Resources Data for Puerto Rico and U.S. Virgin Islands (**Water Data Report PR-01-1**), there are 14 major drainage basins distributed across the entire Island. They are (identified starting from the northwest part and moving toward the east until ending in the west part of Puerto Rico, in the same order used by the **USGS**):

#### Río Guajataca basin

This basin is located toward the northwest part of the Island. Río Guajataca, Quebrada de los Cedros and Guajataca Lake comprise the most significant hydrologic features of this basin. This basin ultimately drains to the Atlantic Ocean.

#### Río Camuy basin

The Río Camuy basin is bounded by the municipalities of Quebradillas and Arecibo. This basin is still within the northwest part of the Island. Major surface streams within this basin are Río Angeles, Río Criminales and Río Piedras. As with the previous basin, this one drains toward the Atlantic Ocean.

#### Río Grande de Arecibo basin

This drainage basin is located near the center part of the northern plains, but reaches deep into the center part of the Island. It possess one the biggest superficial areas of the drainage basins. Numerous streams are observed within this basin. The Most important ones are: Río Caonillas, Río Cidra, Río Caricaboa, Río Jauca, Río Jayuya, Río Limón, Río La Venta, Río Pellejas, Río Saliente, Río Tanamá, Río Vacas, Río Viví, and Río Yunes. The Adjuntas, Caonillas, Dos Bocas and Garza's lakes are also part of the hydrologic features of this basin. This basin drains toward the north coast until reaching the Atlantic Ocean. Major streams within the basin are: Río Bauta, Río Cialitos, Río Grande de Manatí, Río Matrullas, Río Orocovis, Río Sana Muertos and Río Toro Negro.

#### • Río Grande de Manatí basin

This drainage basin is located almost to the center of the northern part of the Island, and also extends toward the mountainous center. It is also observed to be located toward the central portion of the north part of the Island, between the municipalities of Barceloneta and Vega Baja. Major streams within the basin are: Río Bauta, Río Cialitos, Río Grande de Manatí, Río Matrullas, Río Orocovis, Río Sana Muertos and Río Toro Negro. The Matrullas Lake is also part of the hydraulic features of this basin which ultimately drains toward the Atlantic Ocean.

#### Río Cibuco basin

This drainage basin is also observed toward the central portion of the north coast of the Island between the municipalities of Manatí and Toa Baja. The major streams observed in this basin are: Río Cibuco, Río Corozal, Río de los Negros, Río Indio, Río Mavillas, Río Morovis, and Río Unibón. All of the mentioned streams drain into the Atlantic Ocean through the Río Cibuco.

#### Río de la Plata basin

Although this river ends in the Atlantic Ocean, it reaches are mostly located within the central part of the Island. Major streams observed in this basin are: Río Aibonito, Río Arroyata, Río Bucarabones, Río Cañas, Río Cuesta Arriba, Río de la Plata, Río Guadiana, Río Guavate, Río Hondo, and Río Usabón.

#### Río Hondo to Río Puerto Nuevo basins

This drainage basin is observed approaching the eastern part of the northern Island coast. It can be observed between the municipalities of Toa Baja and Dorado. It also extends toward the central and mountainous part of the Island. Major streams located within this basin are: Río Bayamon, Río Hondo, Río Guaynabo, Río Minillas and Río Piedras. Quebrada Margarita and Quebrada San Antón are also part of the hydrologic features of the basin along with maybe the most emblematic of them which is the San Juan Bay.

#### • Río Grande de Loíza basin

This drainage basin drains mostly through Rio Grande Loíza up to the Atlantic Ocean, and is observed leaning toward the east side of the Island. As with the previous one, most of the area comprised within the basin is located to the center portion of Puerto Rico. Major streams located within this basin are: Río Bairoa, Río Caguitas, Río Canóvanas, Río Cañas, Río Cayagüas, Río Grande de Loíza, , Río Gurabo, Río Pastrana, Río Turabo, and Río Valenciano. Quebrada Arenas, quebrada Blasina, quebrada de las Quebradillas, quebrada Grande, Quebrada Maracuto and Loíza Lake are also within this basin.

#### Río Herrera to Río Antón Ruíz basins

This drainage basin is located toward the most eastern part of the Island, within the municipalities of Fajardo and Luquillo. This basin splits its ultimate discharges between the Atlantic Ocean, Vieques Channel and the Caribbean Sea. Major streams located within this basin are: Río Antón Ruiz, Río Blanco, Río Cubuy, Río Demajagua, Río Espíritu Santo, Río Fajardo, Río Herrera, Río Icacos, Río Juan Martín, and Río Santiago. Quebrdas Ceiba and Palma also are located within this basin.

#### Río Humacao to Río Quebrada Aguas Verdes basins

This drainage basin is located toward the southeastern part of the Island, draining its waters into the Caribbean Sea. Its configuration differs from most of the previous ones due to the fact that it does not reach the central part of the Island. Several small streams are observed within this basin, of which the most important are: Río Apeadero, Río Candelero, Río del Ingenio, Río Jacaboa, Río Grande de Patillas, Río Guamaní, Río Guayanés, Río Humacao, Río Limones, Río Maunabo, Río Melania, Río Nigua, Caño de Santiago, Quebrada Agua Verde, Quebrada Cimarrón, and Quebrada Mariana. There are also some channels that have a function within the hydraulic characteristics of this basin. They are Canal de Guamaní Oeste, Canal de Guamaní Este, and Canal de Patillas.

#### Río Salinas to Río Jacaguas basins

This drainage basin is located toward the central portion of the south coast of Puerto Rico and drains to the Caribbean Sea. Major streams located within this basin are: Río Coamo, Río Cuyón, Río Descalabrado, Río Jacaguas, Río Jájome, Río Jueyes, Río Lapa, Río Majada, and Río Salinas. Additional hydrologic features for the area are Coamo Lake, Canal de Juana Díaz, Canal de Patillas, and Quebrada Carmen.

#### Río Inabón to Río Loco basins

This basin is still located within the south part of the Island and ultimately drains to the Caribbean Sea. The most prominent streams found within this basin are: Río Bayagán, Río Bucaná, Río Cañas, Río Chiquito, Río Duey, Río Guayanés, Río Inabón, Río Loco, Río Macaná, Río Pastillo, Río Tallaboa, and Río Yauco. Additional hydrologic features of the basin are: Lagos Serrallés, Lago Cerrillos, Canal de Riego de Lajas.

#### Río Guanajibo basin

This basin is located at the southwestern part of the Island, within the municipalities of Cabo Rojo, Hormigueros, Sabana Grande, and San Germán. Major streams within this basin are: Río Caín, Río Cupeyes, Río Cruces, Río Duey, Río Flores, Río Guanajibo, Río Hoconuco, Río Maricao, Río Prieto, and Río Rosario. Additional hydrologic features of the area are: Canal Principal de Riego Valle de Lajas, Laguna Joyudas, and Quebrada Grande.

#### Río Yagüez and Río Grande de Añasco basins

This last drainage basin is located in the west side of the Island, between Añasco and Aguadilla. Major streams located within this basin are: Río Cañas, Río Culebrinas, Río Culebras, Río Grande de Añasco, Río Guatemala, Río Ingenio, Río Sonador, and Río Yagüez. Quebrada Los Morones and quebrada Grande are also located within this basin.

With respect to the previously provided information, it shall be understood that at of the unnamed creeks located within each of the basin also constitute surfaces bodies of water that are to be considered as part of this list.

In addition to identify the list of surface bodies of water toward which the DTPW/HTA MS4 discharges, it is being required to provide a list of the pollutants that have resulted in the impairment to the water quality of the waterbodies. In addition, it is required to identify those pollutants that are determined as a Total Maximum Daily Load (TMDL) for the water body. As the DTPW/HTA MS4 may discharge on water bodies that basically comprise the entire Island, the list of water bodies along with their corresponding TMDL's and pollutants have been obtained from the Fact Sheet on Puerto Rico's 2014 Impaired Water List (October 2, 2014). This constitutes the most recent one, since the 2016 list has not been issued yet. Before proceed with the listing of the required information it is important to provide a summary of the 2014 findings.

Puerto Rico's 303 (d) List contains 581 instances where a pollutant is causing a designated use impairment. The most common indicators/causes of impairment include:

- Low dissolved oxygen (20.48 % of impairments)
- > Turbidity (16.01% of impairments)
- Cyanide (12.91% of impairments)
- > Pathogens (8.61% of impairments)
- > Copper (7.40% of impairments)

Based on this report conclusions, sources of these pollutants include:

- Onsite wastewater systems (169 sub-basins)
- Urban/stormwater runoff (92)
- Confined animal feeding operations (78)
- Collection system failure (57)
- > Agriculture (56)

Table 1 summarizes the TMDL List for 2014 published at the EQB webpage.

Considering the mapping of the outfalls that have been performed as of this date, the following water bodies receive discharges from the **DTPW/HTA MS4** with their corresponding pollutant causing the impairment:

TABLE 1:TMDL LIST 2014				
Segment/Pollutant	Segment ID	Project Status	Projected TMDL Submittal Date	
1. RIO GUAJATACA/FECAL COLIFORMS	PRNR3A2	Approved by EPA	September 2012	
2. LAGO GUAJATACA/FECAL COLIFORMS	PRNL3A1	Approved by EPA	September 2012	
3. QUEBRADA LAS SEQUIAS/FECAL COLIFORMS	PRNQ3B	Approved by EPA	September 2012	
4. RIO CAMUY/FECAL COLIFORMS	PRNE5A	Approved by EPA	September 2012	
5. RIO CAMUY/FECAL COLIFORMS	PRNR5A	Approved by EPA	September 2012	
6. RIO HONDO/FECAL COLIFORMS	PRER11A	Approved by EPA	September 2012	
7. RIO BAYAMON/FECAL COLIFORMS	PRER12A1	Approved by EPA	September 2012	
8. RIO BAYAMON/FECAL COLIFORMS	PRER12A2	Approved by EPA	September 2012	
9. LAGO CIDRA/FECAL COLIFORMS	PREL12A2	Approved by EPA	September 2012	
10. RIO GUAYNABO/FECAL COLIFORMS	PRER12B	Approved by EPA	September 2012	
11. RIO MINILLAS/FECAL COLIFORMS	PRER12C	Approved by EPA	September 2012	
12. SISTEMA ESTUARIO DE LA BAHIA DE SAN JUAN/FECAL COLIFORMS	PREE13A1	Approved by EPA	September 2012	
13. SISTEMA ESTUARIO DE LA BAHIA DE SAN JUAN/FECAL COLIFORMS	PREE13A2	Approved by EPA	September 2012	
14. RIO GRANDE DE LOIZA/FECAL COLIFORMS	PRER14A1	Approved by EPA	September 2012	
15. RIO CANOVANAS/FECAL COLIFORMS	PRER14B	Approved by EPA	September 2012	
16. RIO CANOVANILLAS/FECAL COLIFORMS	PRER14C	Approved by EPA	September 2012	
17. QUEBRADA MARACUTO/FECAL COLIFORMS	PREQ14D	Approved by EPA	September 2012	
18. QUEBRADA GRANDE/FECAL COLIFORMS	PREQ14E	Approved by EPA	September 2012	
19. RIO HERRERA/FECAL COLIFORMS	PREE15A	Approved by EPA	September 2012	
20. RIO HERRERA/FECAL COLIFORMS	PRER15A	Approved by EPA	September 2012	
21. RIO ESPIRITU SANTO/FECAL COLIFORMS	PREE16A	Approved by EPA	September 2012	
22. RIO ESPIRITU SANTO/FECAL COLIFORMS	PRER16A	Approved by EPA	September 2012	
23. RIO MAMEYES/FECAL COLIFORMS	PREE17A	Approved by EPA	September 2012	
24. RIO MAMEYES/FECAL COLIFORMS	PRER17A	Approved by EPA	September 2012	
25. RIO HUMACAO/FECAL COLIFORMS	PREE33A	Approved by EPA	September 2012	
26. RIO HUMACAO/FECAL COLIFORMS	PRER33A	Approved by EPA	September 2012	
27. RIO CANDELERO/FECAL COLIFORMS	PREE34A	Approved by EPA	September 2012	
28. RIO CANDELERO/FECAL COLIFORMS	PRER34A	Approved by EPA	September 2012	
29. RIO GUAYANES/FECAL COLIFORMS	PREE35A	Approved by EPA	September 2012	

TABLE 1: TMDL LIST 2014 (continued)				
Segment/Pollutant	Segment ID	Project Status	Projected TMDL Submittal Date	
30. RIO GUAYANES/FECAL COLIFORMS	PRER35A	Approved by EPA	September 2012	
31. CAÑO SANTIAGO/FECAL COLIFORMS	PREE35.1	Approved by EPA	September 2012	
32. CAÑO SANTIAGO/FECAL COLIFORMS	PREK35.1	Approved by EPA	September 2012	
33. RIO MAUNABO/FECAL COLIFORMS	PRER37A	Approved by EPA	September 2012	
34. QUEBRADA AGUAS VERDES/FECAL COLIFORMS	PRSE53A	Approved by EPA	September 2012	
35. QUEBRADA AGUAS VERDES/FECAL COLIFORMS	PRSQ53A	Approved by EPA	September 2012	
36. RIO NIGUAS DE SALINAS/FECAL COLIFORMS	PRSE54A	Approved by EPA	September 2012	
37. RIO NIGUAS DE SALINAS/FECAL COLIFORMS	PRSR54A	Approved by EPA	September 2012	
38. RIO JACAGUAS/FECAL COLIFORMS	PRSE60A	Approved by EPA	September 2012	
39. RIO JACAGUAS/FECAL COLIFORMS	PRSR60A1	Approved by EPA	September 2012	
40. RIO JACAGUAS/FECAL COLIFORMS	PRSR60A2	Approved by EPA	September 2012	
41. LAGO GUAYABAL/FECAL COLIFORMS	PRSL <sub>1</sub> 60A	Approved by EPA	September 2012	
42. LAGO TOA VACA/FECAL COLIFORMS	PRSL₂60A	Approved by EPA	September 2012	
43. RIO INABON/FECAL COLIFORMS	PRSE61A	Approved by EPA	September 2012	
44. RIO INABON/FECAL COLIFORMS	PRSR61A	Approved by EPA	September 2012	
45. RIO GUAYANILLA/FECAL COLIFORMS	PRSR67A	Approved by EPA	September 2012	
46. RIO YAUCO/FECAL COLIFORMS	PRSE68A	Approved by EPA	September 2012	
47. RIO YAUCO/FECAL COLIFORMS	PRSR68A1	Approved by EPA	September 2012	
48. RIO YAUCO/FECAL COLIFORMS	PRSR68A2	Approved by EPA	September 2012	
49. LAGO LUCHETTI/FECAL COLIFORMS	PRSL68A1	Approved by EPA	September 2012	
50. RIO LOCO/FECAL COLIFORMS	PRSE69A	Approved by EPA	September 2012	
51. RIO LOCO/FECAL COLIFORMS	PRSR69A1	Approved by EPA	September 2012	
52. RIO LOCO/FECAL COLIFORMS	PRSR69A2	Approved by EPA	September 2012	
53. LAGO LOCO/FECAL COLIFORMS	PRSL69A	Approved by EPA	September 2012	
54. RIO GUANAJIBO/FECAL COLIFORMS	PRWR77A	Approved by EPA	September 2012	
55. RIO HONDO/FECAL COLIFORMS	PRWR77B	Approved by EPA	September 2012	
56. RIO ROSARIO/FECAL COLIFORMS	PRWR77C	Approved by EPA	September 2012	
57. RIO VIEJO/FECAL COLIFORMS	PRWR77D	Approved by EPA	September 2012	
58. RIO DUEY Y RIO HOCONUCO/FECAL COLIFORMS	PRWR77E	Approved by EPA	September 2012	
59. RIO CAIN/FECAL COLIFORMS	PRWR77F	Approved by EPA	September 2012	
60. RIO CUPEYES/FECAL COLIFORMS	PRWR77G	Approved by EPA	September 2012	

TABLE 1: TMDL LIST 2014 (continued)			
Segment/Pollutant	Segment ID	Project Status	Projected TMDL Submittal Date
61. RIO CRUCES/FECAL COLIFOS	PRWR77H	Approved by EPA	September 2012
62. RIO GRANDE/FECAL COLIFORMS	PRWR77I	Approved by EPA	September 2012
63. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83A	Approved by USEPA	September 2010
64. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83B	Approved by USEPA	September 2010
65. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83C	Approved by USEPA	September 2010
66. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83D	Approved by USEPA	September 2010
67. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83E	Approved by USEPA	September 2010
68. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83F	Approved by USEPA	September 2010
69. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83G	Approved by USEPA	September 2010
70. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83H	Approved by USEPA	September 2010
71. RIO GRANDE DE AÑASCO/FECAL COLIFORMS	PRWR83I	Approved by USEPA	September 2010
72. LAGO GUAYO/FECAL COLIFORMS	PRWL83H	Approved by USEPA	September 2010
73. RIO GRANDE DE ARECIBO/FECAL COLIFORMS	PRNR7A1	Approved by USEPA	September 2010
74. LAGO DOS BOCAS/FECAL COLIFORMS	PRNL <sub>1</sub> 7A1	Approved by USEPA	September 2010
75. RIO GRANDE DE ARECIBO/FECAL COLIFORMS	PRNR7A2	Approved by USEPA	September 2010
76. RIO GRANDE DE ARECIBO/FECAL COLIFORMS	PRNR7A3	Approved by USEPA	September 2010
77. LAGO GARZAS/FECAL COLIFORMS	PRNL <sub>3</sub> 7A3	Approved by USEPA	September 2010
78. RIO GRANDE DE ARECIBO/FECAL COLIFORMS	PRNR7B1	Approved by USEPA	September 2010
79. RIO GRANDE DE ARECIBO/FECAL COLIFORMS	PRNR7B2	Approved by USEPA	September 2010
80. RIO GRANDE DE ARECIBO/FECAL COLIFORMS	PRNR7C1	Approved by USEPA	September 2010
81. LAGO CAONILLAS/FECAL COLIFORMS	PRNL <sub>2</sub> 7C1	Approved by USEPA	September 2010
82. RIO GRANDE DE ARECIBO/FECAL COLIFORMS	PRNR7C2	Approved by USEPA	September 2010
83. RIO GRANDE DE ARECIBO/FECAL COLIFORMS	PRNR7C3	Approved by USEPA	September 2010
84. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8A1	Approved by USEPA	September 2010
85. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8A2	Approved by USEPA	September 2010
86. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8A3	Approved by USEPA	September 2010
87. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8B	Approved by USEPA	September 2010

TABLE 1: TMDL LIST 2014 (continued)				
Segment/Pollutant	Segment ID	Project Status	Projected TMDL Submittal Date	
88. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8C1	Approved by USEPA	September 2010	
89. LAGO GUINEO/FECAL COLIFORMS	PRNL <sub>1</sub> 8C1	Approved by USEPA	September 2010	
90. LAGO MATRULLAS/FECAL COLIFORMS	PRNL <sub>2</sub> 8C1	Approved by USEPA	September 2010	
91. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8C2	Approved by USEPA	September 2010	
92. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8D	Approved by USEPA	September 2010	
93. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8E1	Approved by USEPA	September 2010	
94. RIO GRANDE DE MANATÍ/FECAL COLIFORMS	PRNR8E2	Approved by USEPA	September 2010	
95. RIO CULEBRINAS/FECAL COLIFORMS	PRWR95A	Approved by USEPA	September 2010	
96. RIO CULEBRINAS/FECAL COLIFORMS	PRWR95B	Approved by USEPA	September 2010	
97. RIO CULEBRINAS/FECAL COLIFORMS	PRWR95C	Approved by USEPA	September 2010	
98. RIO CULEBRINAS/FECAL COLIFORMS	PRWR95D	Approved by USEPA	September 2010	
99. RIO CULEBRINAS/FECAL COLIFORMS	PRWR95E	Approved by USEPA	September 2010	
100.RIO CULEBRINAS/FECAL COLIFORMS	PRWR95F	Approved by USEPA	September 2010	
101.RIOCULEBRINAS/FECAL COLIFORMS	PRWR95G	Approved by USEPA	September 2010	
102.RIO CULEBRINAS/FECAL COLIFORMS	PRWR95H	Approved by USEPA	September 2010	
103.RIO CULEBRINAS/FECAL COLIFORMS	PRWR95I	Approved by USEPA	September 2010	
104.RIO CULEBRINAS/FECAL COLIFORMS	PRWR95J	Approved by USEPA	September 2010	
105.RIOCULEBRINAS/FECAL COLIFORMS	PRWR95K	Approved by USEPA	September 2010	
106.RIO SABANA/FECAL COLIFORMS	PREE19A	Approved by USEPA	September 2011	
107.RIO JUAN MARTÍN/FECAL COLIFORMS	PREE20A	Approved by USEPA	September 2011	
108.RIO FAJARDO/FECAL COLIFORMS	PREE22A	Approved by USEPA	September 2011	
109.RIO DAGUAO/FECAL COLIFORMS	PREE26A	Approved by USEPA	September 2011	
110.RIO SANTIAGO/FECAL COLIFORMS	PREE29A	Approved by USEPA	September 2011	
111.RIO BLANCO/FECAL COLIFORMS	PREE30A	Approved by USEPA	September 2011	
112.RIO ANTON RUIZ/FECAL COLIFORMS	PREE31A	Approved by USEPA	September 2011	
113.QUEBRADA FAJARDO/FECAL COLIFORMS	PREQ21A	Approved by USEPA	September 2011	
114.QUEBRADA CEIBA/FECAL COLIFORMS	PREQ24A	Approved by USEPA	September 2011	
115.QUEBRADA AGUAS CLARAS/FECAL COLIFORMS	PREQ25A	Approved by USEPA	September 2011	

TABLE 1: TMDL LIST 2014 (continued)				
Segment/Pollutant	Segment ID	Project Status	Projected TMDL Submittal Date	
116.QUEBRADA PALMA/FECAL COLIFORMS	PREQ27A	Approved by USEPA	September 2011	
117.QUEBRADABOTIJAS/FECAL COLIFORMS	PREQ28A	Approved by USEPA	September 2011	
118.RIO BLANCO/FECAL COLIFORMS	PREQ30B	Approved by USEPA	September 2011	
119.RIO SABANA/FECAL COLIFORMS	PRER19A	Approved by USEPA	September 2011	
120.RIO DEMAJAGUA/FECAL COLIFORMS	PRER23A	Approved by USEPA	September 2011	
121.RIO DAGUAO/FECAL COLIFORMS	PRER26A	Approved by USEPA	September 2011	
122.RIO BLANCO/FECAL COLIFORMS	PRER30A	Approved by USEPA	September 2011	
123.RIO ANTON RUIZ/FECAL COLIFORMS	PRER31A	Approved by USEPA	September 2011	
124.CAÑO TIBURONES/FECAL COLIFORMS	PRNE7.1	Approved by USEPA	September 2011	
125.QUEBRADA DE LOS CEDROS/FECAL COLIFORMS	PRNQ1A	Approved by USEPA	September 2011	
126.QUEBRADABRANDERI/FECAL COLIFORMS	PRSE48A	Approved by USEPA	September 2011	
127.QUEBRADAMELANIA/FECAL COLIFORMS	PRSE50A	Approved by USEPA	September 2011	
128.RIO SECO/FECAL COLIFORMS	PRSE51A	Approved by USEPA	September 2011	
129.QUEBRADA AMOROS/FECAL COLIFORMS	PRSE52A	Approved by USEPA	September 2011	
130.RIODESCALABRADO/FECAL COLIFORMS	PRSE58A	Approved by USEPA	September 2011	
131.LAGO PATILLAS/FECAL COLIFORM	PRSL43A1	Approved by USEPA	September 2011	
132.LAGO CERRILLOS/FECAL COLIFORMS	PRSL62A1	Approved by USEPA	September 2011	
133.QUEBRADA MANGLILLO/FECAL COLIFORMS	PRSQ38A	Approved by USEPA	September 2011	
134.QUEBRADA FLORIDA/FECAL COLIFORMS	PRSQ39A	Approved by USEPA	September 2011	
135.QUEBRADA PALENQUE/FECAL COLIFORMS	PRSQ41A	Approved by USEPA	September 2011	
136.QUEBRADA YAUREL/FECAL COLIFORMS	PRSQ44A	Approved by USEPA	September 2011	
137.QUEBRADAMELANIA/FECAL COLIFORMS	PRSQ50A	Approved by USEPA	September 2011	
138.QUEBRADA AMOROS/FECAL COLIFORMS	PRSQ52A	Approved by USEPA	September 2011	
139.RIO JACABOA/FECAL COLIFORMS	PRSR40A	Approved by USEPA	September 2011	
140.RIO CHICO/FECAL COLIFORMS	PRSR42A	Approved by USEPA	September 2011	
141.RIO GRANDE DE PATILLAS/FECAL COLIFORMS	PRSR43A1	Approved by USEPA	September 2011	
142.RIO GRANDE DE PATILLAS/FECAL COLIFORMS	PRSR43A2	Approved by USEPA	September 2011	
143.RIO MARIN/FECAL COLIFORMS	PRSR43B	Approved by USEPA	September 2011	
144.RIO NIGUAS DE ARROYO/FECAL COLIFORMS	PRSR45A	Approved by USEPA	September 2011	

TABLE 1: TMDL LIST 2014 (continued)			
Segment/Pollutant	Segment ID	Project Status	Projected TMDL Submittal Date
145.QUEBRADA CORAZON/FECAL COLIFORMS	PRSR47A	Approved by USEPA	September 2011
146.RIO GUAMANI/FECAL COLIFORMS	PRSR49A	Approved by USEPA	September 2011
147.RIO JUEYES/FECAL COLIFORMS	PRSR55A	Approved by USEPA	September 2011
148.RIO CAYURES/FECAL COLIFORMS	PRSR56A	Approved by USEPA	September 2011
149.RIO COAMO/FECAL COLIFORMS	PRSR57A1	Approved by USEPA	September 2011
150.RIO COAMO/FECAL COLIFORMS	PRSR57A2-1	Approved by USEPA	September 2011
151.RIO COAMO/FECAL COLIFORMS	PRSR57A2-2	Approved by USEPA	September 2011
152.RIO CUYON/FECAL COLIFORMS	PRSR57B	Approved by USEPA	September 2011
153.RIO CAÑAS/FECAL COLIFORMS	PRSR59A-1	Approved by USEPA	September 2011
154.RIO CAÑAS/FECAL COLIFORMS	PRSR59A-2	Approved by USEPA	September 2011
155.RIO JACAGUAS/FECAL COLIFORMS	PRSR62A1	Approved by USEPA	September 2011
156.RIO PORTUGUES/FECAL COLIFORMS	PRSR63A-1	Approved by USEPA	September 2011
157.RIO PORTUGUES/FECAL COLIFORMS	PRSR63A-2	Approved by USEPA	
158.RIO MATILDE PASTILLO/FECAL COLIFORMS	PRSR64A-1	Approved by USEPA	September 2011 September 2011
159.RIO MATILDE PASTILLO/FECAL COLIFORMS	PRSR64A-2	Approved by USEPA	September 2011
160.RIO TALLABOA/FECAL COLIFORMS	PRSR65A-1	Approved by USEPA	September 2011
161.RIO TALLABOA/FECAL COLIFORMS	PRSR65A-2	Approved by USEPA	September 2011
162.RIO MACANA/FECAL COLIFORMS	PRSR66A	Approved by USEPA	September 2011
163.CAÑO MERLE/FECAL COLIFORMS	PRWE78A	Approved by USEPA	September 2011
164.CAÑO CONDE AVILA/FECAL COLIFORMS	PRWK75A	Approved by USEPA	September 2011
165.CAÑO MERLE/FECAL COLIFORMS	PRWK78A	Approved by USEPA	September 2011
166.CAÑO DE SANTI PONCE/FECAL COLIFORMS	PRWK93A	Approved by USEPA	September 2011
167.CAÑO CORAZONES/FECAL COLIFORMS	PRWK96A	Approved by USEPA	September 2011
168.LAGUNA JOYUDAS/FECAL COLIFORMS	PRWN0005	Approved by USEPA	September 2011
169.QUEBRADA BOQUERON/FECAL COLIFORMS	PRWQ71A	Approved by USEPA	September 2011
170.QUEBRADA ZUMBON/FECAL COLIFORMS	PRWQ72A	Approved by USEPA	September 2011
171.QUEBRADA GONZALEZ/FECAL COLIFORMS	PRWQ73A	Approved by USEPA	September 2011
172.QUEBRADA LOS PAJARITO/FECAL COLIFORMS	PRWQ74A	Approved by USEPA	September 2011
173.QUEBRADA IRIZARRY/FECAL COLIFORMS	PRWQ76A	Approved by USEPA	September 2011
174.QUEBRADA DEL ORO/FECAL COLIFORMS	PRWQ80A	Approved by USEPA	September 2011
175.RIO YAGUEZ/FECAL COLIFORMS	PRWR79A	Approved by USEPA	September 2011
176.RIO GUAYABO/FECAL COLIFORMS	PRWR94A	Approved by USEPA	September 2011

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- San Juan Bay Estuary (Fecal Coliforms)
- Rio Hondo (Fecal Coliforms)

The instruction of the **NOI** indicate that the number of outfalls that discharge into each one of the receiving bodies of water shall be included. In attempting to comply with this requirement, the results of the recent San Juan **Outfall Reconnaissance Investigation (ORI)** as well as of previous investigations have been used to provide a current list, which is not inclusive since the outfall mapping effort has not been completed. Since the outfalls have been the result of different highway investigations, they have been summarized as a function of the corresponding highway. It shall be noted that the list may be partial since this is an ongoing process.

Table 2: Outfalls Identified on DTPW/HTA MS4 with their corresponding receiving body of water

Highway ID	Number of outfalls	Name of Receiving Body of Water	
PR-1	5	Rio Piedras River	
	2	San Juan Bay	
PR-2	7	Unnamed creek of the San Juan Bay	
PR-3	2	San Antón Creek	
PR-8	5	San José Lagoon	
PR-17	4	Josefina Creek	
	4	Rio Piedras River	
	11	Unamed creeks	
PR-18	1	Buena Vista Creek	
PR-22	13	Unnamed channels	
	1	Puerto Nuevo River	
	4	Margarita Channel	
	1	Santa Catalina Creek	
	2	Rio Hondo River	
	2	Rio Grande de Manatí River	
PR-23	2	Rio Piedras River	
PR-25	4	Atlantic Ocean	
PR-26	17	Condado Lagoon	
PR-27	1	Juan Méndez Creek	
PR-47	1	Unnamed Creek	
	3	Juan Méndez Creek	

The **NOI** also asks to indicate if monitoring has been performed on them. A review of the available information, allow to indicate that majority of them did not have flow at the time of the investigation, and therefore, no monitoring was performed. However, an outfall of **PR-27** (Barbosa Avenue) that had flow during the investigation was analyzed using ammonia strips and resulted positive. This indicates that an illicit discharge is reaching this outfall which will be further investigated to eliminate such discharge. This discharge reaches Juan Méndez Creek. This creek eventually reaches the San Juan Bay Estuary for which a TMDL for Fecal coliforms have been established.

#### Part H: Summary of Stormwater Management Program (SWMP) under the 2006 Small MS4 Permit

This section of the **NOI** requires to provide information related with the goals and best management practices (BMP's)/controls developed, implemented and enforce in the **Stormwater Management Program (SWMP)** under the 2006 **Small MS4 General Permit**. It is required to provide a description or identification of the practice/control/goal achieved, continuation of practice/control in to the next permit cycle, and modifications, if any to the goal and/or practice/control.

In general, it shall be indicated that the current **SWMP** will be revised in order to focus on less but more effective **Minimum Control Measures** (**MCM**). This follows from the experiences gained under the previous permit cycle, as well as to incorporate additional measures that were required as part of the stipulation of the Civil Action No. 3:14-cv-1476-CCC. Some of the requirements contained under the **Consent Decree** (**CD**) of this case are:

- The revised SWMP shall incorporate the deadlines included in the CD
- Incorporate the sludge disposal plan in the SWMP
- A Spill Control Plan for containing and remediating spills or leaks of petroleum products or hazardous substances into the MS4 shall be incorporated into the SWMP

The previously detailed SWMP requirements are in addition to the new permit required modifications.

The current **SWMP** details the specific **MCM** in Section 16.0, page 53. The specific activities for each of the MCM have been included in the table that follows (see table 3). This table has been prepared as per the details of the **NOI**.

#### Part I: 2016 Stormwater Management Program (SWMP) Summary

The section of the **NOI** requires to provide information pertaining to the SWMP that will be updated taking into account the requirements established in the 2016 **Small MS4 General Permit** for each **MCM**. It is required to provide a description or identification for each of the practice/control, educational topic, program description, and measurable goals for:

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management in New Development and Redevelopment

As required by the NOI Table 4A through 4F summarizes the required information.

Table 3: Summary of Stormwater Management Program under the 2006 Small MS4 General Permit

BMP Description or BMP ID	Goal Achieved? (Yes/No)	Continued in next permit Cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification (s) to goals or BMP for next permit cycle.
MCM #1: Public Educ	ation and Outreac	h		
Educational Material Distribution in Schools	Yes	No	Students	Will focus of roadways users
Activities with education of stormwater for communities	Yes	No	General public	Will focus on roadway users, contractors, employees
Visits to webpage created by agency	Yes	Yes	General Public	Need to incorporate interconnection with social networks such as facebook, twitter, etc.
Distribution of flyers at toll plazas	Yes	Yes	Roadway users	Will continue in next permit cycle as currently being performed.
MCM #2: Public Pa	rticipation and In	volvement		
Public Participation in Workshops held for Environmental Clearance Process of projects, but for which stormwater educational material will be distributed	No	No. People interest in these activities is the proposed project. Difficulty to grab their attention for other subjects.	General public interested in the construction of a new roadway	New strategy required to be included this MCM.
Adopt a Highway Program	Yes	Yes	People of entities interested in sharing the maintenance of landscaping portions of highway	No modifications required

Table 3: Summary of Stormwater Management Program under the 2006 Small MS4 General Permit (continued)

BMP Description or BMP ID	Goal Achieved? (Yes/No)	Continued in next permit Cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification (s) to goals or BMP for next permit cycle.
Public notifications about illegal discharges into the MS4 system	No	No.	General Public and Roadway users. Need to establish a hot line or link to the agency webpage.	Needs to follow up until webpage link is established.
MCM #3: Illicit Discha	T	Elimination (IDDE)		
Inventory conducted and sites prioritized for inspection at DTPW/HTA facilities	Yes.	Yes, with a reinspection of the DTPW/HTA facilities.	Employees. Need economic and human resources.	No. Need to follow up the results of the inspection
Agreements signed with municipalities	Yes. MOU signed with the MSJ	Yes	Municipal government with interconnected MS4's	No. Need to include the Municipality of Carolina, DRNA.
Miles of roadway inventoried	Yes	Yes	Employees. Need economic and human resources.	No
Number of outfalls identified	Partially completed, needs further and extensive efforts to complete.	Yes	Employees. Need economic and human resources.	No. Need to complete mapping of entire system in 10 years.
Number of dry tests completed	Yes	Yes	Employees	No.
MCM #4: Construct	ion Site Runoff C	ontrol		
Number of permits issued by EQB/EPA	Yes	Yes	Contractors and project administrators	No
Trained Inspectors	Yes	Yes	Project administrators	Need to establish an annual training requirement for agency employees.

Table 3: Summary of Stormwater Management Program under the 2006 Small MS4 General Permit (continued)

BMP Description or BMP ID	Goal Achieved? (Yes/No)	Continued in next permit Cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification (s) to goals or BMP for next permit cycle.
Number of sites inspected	Yes	Yes	Employees and contractors	Needs to establish an annual CGP refresher.
MCM #5: Post-Const	ruction Runoff Con	trol		
Number of transportation related facilities assessed to identify the possibility for reducing the volume of stormwater runoff	No	No	Employees. The majority of the MS4 is comprised of highways for which runoff reduction controls is difficult to attain.	Yes, need to assess and identify reasonable possibilities.
Inspection of structural BMP's	No	Yes	Employees. Need technical expertise to perform inspections	Need to prepare an inventory of BMPs.
MCM #6: Pollution Pr	evention/Good Ho	ousekeeping Practices		
Training of employees in the prevention of pollution generated by vehicles, and equipment maintenance activities	Partially completed, needs further and extensive efforts to complete.	Yes	Employees. Need economic and human resources.	No
Inspections of facilities	Yes	Yes	Employees. Requires follow up to inspected facilities to correct observed deficiencies	No

**Table 4A: 2016 Stormwater Program Summary** 

BMP Description or BMP ID	Education Topic (Identify the issue your BMP is educating the public about)	Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., number mailing sent, people at event, class participation, etc.)
MCM #1: Public Educ	ation and Outreach		
Distribution of educational materials	Importance of eliminating discharges of oil and other petroleum products as well as sewage discharges into the MS4	Flyers and brochures at toll plazas, environmental fairs, DTPW facilities (like CESCOS)	Number of flyers, people attending an exhibition being used to distribute materials, etc.
Attendance to activities requested by schools and other organizations	Types of pollutants generated by transportation maintenance related activities, including those performed at home.	Flyers and brochures	Number of flyers, people attending the activity
Information provided at agency Webpage	Importance of eliminating discharges of oil and other petroleum products as well as sewage discharges into the MS4.	Agency webpage	Number of site visits

Table 4B: 2016 Stormwater Program Summary

BMP Description or BMP ID	Education Topic (Identify the issue your BMP is educating the public about)	Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., number mailing sent, people at event, class participation, etc.)
MCM #2: Public Part			
Adopt a Highway	Importance of eliminating discharges of oil and other petroleum products as well as sewage discharges into the MS4	Information provided to participants will be enhanced to included additional statements regarding to the importance of their commitment to adopt a portion of a highway and encouraging them to remain vigilant to the improper disposal of oils, hazardous substances and sanitary discharges into the MS4	Number of participants
Assistance to activities related with this measure being developed by other entities such as the MSJ and the DNER	Importance of eliminating discharges of oil and other petroleum products as well as sewage discharges into the MS4. Responsibility of the DTPW/HTA to perform the IDDE on its MS4.	Events	Number of people attending the activity
Publish the SWMP on the agency webpage and request comments from citizens	Purpose of developing the SWMP and the DTPW/HTA responsibilities under 2016 Small MS4 permit	Agency webpage	Number of site visits and comments received

NOTICE OF INTENT (NOI)

DTPW/HTA

**Table 4C: 2016 Stormwater Program Summary** 

BMP Description or BMP ID	Education Topic (Identify the issue your BMP is educating the public about)	Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., number mailing sent, people at event, class participation, etc.)
	arge Detection and Elimin	ation (IDDE)	
Identification of known locations where Sanitary Sewer Overflows (SSO) occur	Importance of notifying and eliminating discharges of sewage discharges into the MS4	This outreach is intended for the O & M employees of the DTPW/HTA.	Number of participants and number of notifications to PRASA
Complete System Mapping in consideration to the new 2016 permit requirements	Identification of the mapping of the outfalls of the MS4	This MCM is for the internal use of the agency	Number of miles at with completed mapping of the outfalls
Stenciling of outfalls	Physical identification of outfalls	This MCM is for the internal use of the agency	Number of identified outfalls

Table 4E: 2016 Stormwater Program Summary

BMP Description or BMP ID	Education Topic (Identify the issue your BMP is educating the public about)	Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., number mailing sent, people at event, class participation, etc.)
		gement in New development a	nd Re-development
Requirement of analyzing the potential for green practices in the design stage of new highway projects	Reduction of discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP) Maintenance of structural BMP's	This outreach is intended for the HTA Design Division	Number of designers and projects where the use of green practices of BMP's to reduce pollutants are developed
Requirements to analyze the possibility of using green practices in re-development projects	Reduction of discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP) Maintenance of structural BMP's	This outreach is intended for the HTA Design Division	Number of designers and projects where the use of green practices of BMP's to reduce pollutants are developed

Table 4F: 2016 Stormwater Program Summary

BMP Description or BMP ID	Education Topic (Identify the issue your BMP is educating the public about)	Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., number mailing sent, people at event, class participation, etc.)		
MCM #6: Good Housekeeping and Pollution Prevention in Municipal Operations					
Develop written Operations and Maintenance (O & M) Programs	Reduction of pollutants of stormwater runoff from the agency park and open space maintenance; fleet and building maintenance; street, road or highway maintenance; stormwater system maintenance; new construction and land disturbances; vehicle and equipment maintenance and storage yards; waste transfer stations, others.	This outreach is intended for the O & M employees of the DTPW/HTA.	Number of employees		
Training Program for O & M Personnel	DTPW/HTA responsibility under the 2016 Small MS4 permit. Implementation of the BMP's developed for the DTPW/HTA facilities	This outreach is intended for the O & M employees of the DTPW/HTA.	Number of employees		
SWPPP team and Inspections	DTPW/HTA responsibility under the 2016 Small MS4 permit. SWPPP Inspections. Team members responsibilities	This outreach is intended for the team members of the SWPPP	Number of inspections		