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**NOTICE OF INTENT**  
**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**  
**GENERAL PERMIT PRR040000/PRR04000F**  
**SEPARATE STORM SEWER SYSTEMS 2016**

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Submitted By:



**RECEIVED**  
SEP 28 2016

*CS*

**MUNICIPALITY OF MAYAGÜEZ**  
P.O. Box 447  
MAYAGÜEZ, PR 00681

Submitted To:

**U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION II**  
**CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION**  
CITY VIEW PLAZA, SUITE 7000  
#48 165 RD KM 1.2  
GUAYNABO, PUERTO RICO 00968

**September 28, 2016**

**TABLE OF CONTENT**

1.0 NPDES (Notice of intent) Permit Application ..... 1

1.1 Background..... 1

1.2 2016 MS4 General Permit ..... 1

2.0 Notice of Intent Form for MS4 in Puerto Rico (Appendix F) .....2

2.1 Part A. General Information .....2

2.2 Part B. Primary MS4 Program Manager Contact Information.....2

2.3 Part C. Eligibility Determination (See Appendix B) .....3

2.4 Part D. Map/Boundaries .....3

2.4.1 Item – 1 MS4/Organization Description of regulated boundaries (narrative).....3

2.4.2 Item – 2 Location Map/Boundaries ..... 4

2.5 Part E. MS4 Infrastructure ..... 4

2.6 Part F. Bylaw/Ordinance Development (if covered under the 2006 general permit) 5

2.7 Part G. Receiving Waters .....6

2.8 Part H. Summary of Stormwater Management Program (SWMP) under the 2006  
Small MS4 General Permit .....8

2.9 Part I. 2016 Stormwater Management Program (SWMP) Summary ..... 12

2.9.1 Public Education and Outreach: ..... 12

2.9.2 Public Involvement and Participation:..... 13

2.9.3 Illicit Discharge Detection and Elimination:..... 15

2.9.4 Construction Site Stormwater Runoff Control:..... 17

2.9.5 Post-Construction Stormwater Management in New Development and  
Redevelopment:..... 19

2.9.6 Good Housekeeping and Pollution Prevention in Municipal Operations .....22

2.10 Part J. Application Certification and Signature .....26

**APPENDICES**

**APPENDIX A – MAPS**

- MAYAGÜEZ BOUNDARY MAP
- OUTFALLS SABANETAS WARD
- OUTFALLS ALGARROBO WARD
- OUTFALLS MIRADERO WARD
- OUTFALLS PUEBLO WARD
- OUTFALLS MAYAGÜEZ ARRIBA
- OUTFALLS SABALOS WARD
- OUTFALLS QUEBRADA GRANDE WARD
- OUTFALLS GÜANAJIBO WARD

**APPENDIX B – ELIGIBILITY DETERMINATION**

- US FISH AND WILDLIFE SERVICE ENDANGERED SPECIES ACT ELIGIBILITY DETERMINATION
- NATIONAL HISTORIC PRESERVATION ACT ELIGIBILITY DETERMINATION CRITERIA

## 1.0 NPDES (Notice of intent) Permit Application

### 1.1 Background

In 1972, Congress amended the Clean Water Act (CWA) to prohibit the discharge of any pollutant to waters of the United States from point sources unless the discharge is authorized by a National Pollutant Discharge Elimination System (NPDES) permit. Initial efforts under the NPDES program focused on reducing pollutants in discharges of industrial process wastewater and municipal sewage. As pollution control measures have been implemented, it has become evident that diffuse sources or nonpoint sources are also contributors of water quality degradation. In 1990, the US Environmental Protection Agency (EPA) promulgated rules establishing Phase I of the NPDES storm water program. The Phase I program for MS4s requires operators of “medium” and “large” MS4s, that is, those that generally serve populations of 100,000 or greater, to implement a storm water management program as a means to control polluted discharges from these MS4s. EPA published the Storm Water Phase II Rule on December 9, 1999 which covers all small MS4s located in “urbanized areas” as defined by the U.S. Bureau of the Census. In November 6, 2006, USEPA issued the General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (PRR040000). This permit authorizes, under its terms and conditions, discharges of storm water from small municipal separate storm sewer systems (MS4s) located within the Commonwealth of Puerto Rico, and as defined in 40 CFR §122.26(b)(16), including small MS4s designated under 40 CFR §122.32(a)(1) and 40 CFR §122.32(a)(2).

As outlined in these regulations the Municipality of Mayagüez submitted an application for permit coverage as well as a Storm Water Management Plan (SWMP). On December 16, 2008, the Municipality submitted a Notice of Intent (NOI) seeking permit coverage. The EPA issued coverage under Permit Number PRR040043 on February 11, 2009. The Municipality submitted a Storm Water Management Plan (SWMP) in January 3, 2011 and at the request of EPA the Municipality prepared a revised SWMP on May 2016.

### 1.2 2016 MS4 General Permit

The General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in the Commonwealth of Puerto Rico, Permit Number PRRR040000 effective July 1, 2016 requires permittees to submit NOI within 90 days of the effective date of the permit.

*“Operators of Small MS4s seeking authorization to discharge under the terms and conditions of this permit shall submit a complete and accurate NOI that contains the information identified in Appendix F. This includes operators of small MS4s that were previously authorized under the November 6, 2006 Small MS4 General Permit.”*

This document represents the NOI requesting coverage under the 2016 NPDES for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems General Permit No. PRR040000. The NOI was prepared on basis of the implementation of the 2006 General Permit and with documentation provided by the Municipality attesting the status of implementation of said permit. This NOI complies with the requirements of Appendix F (Notice of Intent (NOI) Form of the 2016 NPDES for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems General Permit No. PRR040000.

**2.0 Notice of Intent Form for MS4 in Puerto Rico (Appendix F)****2.1 Part A. General Information**

1. Name of Municipality or Organization: **Municipality of Mayagüez**
2. Type:  Federal  State  Municipality  Other: N/A
3. Existing Permittee:  Yes  No  
If yes, provide EPA NPDES Permit Number: **PRR040043**
4. Location Address:
  - a. Street: **Casa Alcaldía, Calle Peral Sur**
  - b. City: **Mayagüez** State: **PR** Zip Code: **00681**
5. Mailing Address:
  - a. Street: **P.O. Box 447**
  - b. City: **Mayagüez** State: **PR** Zip Code: **00681-0447**
6. Telephone Number: **(787) 834-3077** Fax: **(787) 834-4930**
7. E-mail: **ekrumhansl@mayaguezpr.gov**
8. Standard Industrial Classification (SIC) Code: **9199**

Latitude: **18.203568° N** (degrees decimal) Longitude: **-67.143361° W** (degrees decimal)  
*Approximate center of the regulated portion of the MS4.*

**2.2 Part B. Primary MS4 Program Manager Contact Information**

1. Name: **Arch. Esther A. Krumhansl López**
2. Position Title: **Acting Manager, Department of Economic Development & Planning**
3. Stormwater Management Program (SWMP) Location (web address or physical location): **Economic Development & Planning Department, #3 Peral Building, 2<sup>nd</sup> Floor, Peral Street North, Mayagüez, PR.**
4. Mailing Address:
  - a. Street: **P.O. Box 447**
  - b. City: **Mayagüez** State: **PR** Zip Code: **00681-0447**
5. Telephone Number: **(787) 834-3077**
6. E-mail: **ekrumhansl@mayaguezpr.gov**

### 2.3 Part C. Eligibility Determination (See Appendix B)

1. Endangered Species Act (ESA) determination complete?  Yes  No
  - a. Eligibility Criteria (check all that apply):  A  B  C  D  E  F
2. National Historic Preservation Act (NHPA) determination complete?  Yes  No
  - a. Eligibility Criteria (check all that apply):  A  B  C  D

### 2.4 Part D. Map/Boundaries

#### 2.4.1 Item – 1 MS4/Organization Description of regulated boundaries (narrative)

The Autonomous Municipality of Mayagüez has a territorial extension of 77.63 square miles and a population of approximately 89,080 inhabitants<sup>1</sup>. Mayagüez is located in the western coast of the Island of Puerto Rico, is bounded to the west with the Mona Passage, to the north with the Municipalities of Añasco and Las Marías, to the east with the Municipality of Maricao, and to the south with the Municipalities of Cabo Rojo, Hormigueros and San Germán. It has an ample coastline that runs from Río Guanajibo at the southern boundary with the Municipality of Cabo Rojo, and forming an arch along the Mayagüez Bay up to the Río Grande de Añasco river at the northern boundary with the Municipality of Añasco. Mayaguez is part of the western coastal valleys. Its higher parts are to the northeast and east where the Urayoán mountain range is located. However, it has some notable elevations to the south such as Cuchilla Los Matos (Río Hondo and Malezas Wards) or Cerro Las Mesas (Quebrada Grande, Juan Alonso and Rosario Wards). Its most outstanding elevations are Pico San Bernardo (1,594 feet), Cerro Las Mesas (1,247 feet) and Cerro Leclerc (1,129 feet).<sup>2</sup>

Mayagüez is organized in twenty-one (21) wards: Algarrobo, Bateyes, Guanajibo, Isla de Mona & Islote Monito, Juan Alonso, Leguízamo, Limón, Malezas, Mayagüez Arriba, Mayagüez Pueblo, Miradero, Montoso, Naranjales, Quebrada Grande, Quemado, Río Cañas Abajo, Río Cañas Arriba, Río Hondo, Rosario, Sábalo and Sabanetas.

The Municipality of Mayagüez is located within the urbanized area<sup>3</sup> of Mayagüez, PR, as delimited in the urbanized areas maps of U.S. Census 2010. All the wards of the Municipality of Mayagüez, except for Bateyes, Isla de Mona & Islote Monito, Leguísamo, Limón, Malezas, Montoso, Naranjales, Quemado, Río Cañas Arriba and Rosario, are located partially or entirely within the urbanized area of Mayagüez.

<sup>1</sup> US Census 2010 Population, Housing Units, Area, and Density Summary, Mayagüez, Puerto Rico  
[http://factfinder.census.gov/faces/nav/jsf/pages/community\\_facts.xhtml](http://factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml)

<sup>2</sup> Pico, Rafael, Geografía de Puerto Rico Parte I - Geografía Física, Editorial Universitaria, Río Piedras, PR. 1954

<sup>3</sup> An urbanized area (UA) is a densely settled core of census tracts and/or census blocks that have population of at least 50,000, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core. It is a calculation used by the Bureau of the Census to determine the geographic boundaries of the most heavily developed and dense urban areas. Fact Sheet 2.2 (revised June 2012), USEPA

The Autonomous Municipality of Mayagüez operates a Municipal Separate Stormwater Sewer System (MS4) located in Mayagüez, Puerto Rico, which includes the Pueblo Ward, urban centers and developed rural areas within the municipality.

The Municipality of Mayagüez MS4 in the urban areas, in general, consist of a series of catch basins, typically located within the right-of-way of municipal and commonwealth roads, interconnected by underground concrete or PVC pipes which normally discharge to rivers and streams which in turn discharge to Mayaguez Bay or the Mona Passage. In the rural areas the MS4 typically consists of a series of interconnected open channel concrete culverts, which run parallel to municipal and commonwealth roads, and usually discharges to lands and with laminar flow reaches surface waterbodies. Interconnected to the MS4 are the storm water sewer systems owned and operated by the Puerto Rico Department of Transportation and Public Works.

Also, interconnected to the MS4 are the discharges from NPDES (Stormwater) permitted facilities and permitted industrial and commercial facilities.

The Mayagüez storm sewer system mainly discharges to the Río Yagüez, Río Hondo, Quebrada del Oro, Caño Llavat, Quebrada Pulida, Quebrada Guifen, Quebrada Maga, Caño Boquilla, Caño Majagual and Caño Merle. These waterbodies and tributaries discharge to Mayagüez Bay. Some storm water runoff discharges directly to the Mayagüez Bay.<sup>4</sup>

The estimated square mileage served by the MS4 in the urbanized area of Mayagüez is 20.93 square miles.<sup>5</sup>

**2.4.2 Item – 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?  Yes  No **See Appendix A**

**2.5 Part E. MS4 Infrastructure**

1. Estimated Percent of Outfall Map Complete? (*Section 4.2.3 of 2006 general permit*): **70% outfall map complete**
  - a. If 100% of 2006 requirements are not met, enter an estimated date of completion: **12/31/2017**  
(MM/DD/YYYY)

<sup>4</sup> Municipality of Mayagüez; Small Municipal Storm Water Management Plan (SWMP) for Separate Storm Sewer Systems (MS4'S). May 2016.  
<sup>5</sup> Notice of Intent, NPDES-Permit, Municipal Separate Storm Sewer System (MS4). Autonomous Municipality of Mayagüez. December 16, 2008

- b. Web address where MS4 map is published: **A copy of the storm sewer outfall map is included in Appendix A.**

*If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission.*

**2.6 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: **03/14/2016**  
(MM/DD/YYYY)
  
2. Construction/Erosion and Sediment Control authority adopted?  Yes  No
  - a. Effective Date or Estimated Date of Adoption: **03/14/2016**  
(MM/DD/YYYY)
  
3. Post-Construction Stormwater Management adopted?  Yes  No
  - a. Effective Date or Estimated Date of Adoption: **03/14/2016**  
(MM/DD/YYYY)

## 2.7 Part G. Receiving Waters

List the names of all surface waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any impairments. You may attach additional information.

Waterbody Segment that receives flow from the MS4	Number of Outfalls into receiving waterbody segment	Has any monitoring been performed to outfalls? (Yes/No)	List of Pollutant(s) causing impairment <sup>6</sup> (if applicable)	List of TMDL Pollutant (s) (if any)
<b>Caño Boquilla Estuary PRWE82A</b>	<b>12</b>	<b>No</b>	<b>Dissolved Oxygen Surfactants Turbidity</b>	<b>None</b>
<b>Caño Corazones</b>	<b>14</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>
<b>Caño Llavat</b>	<b>5</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>
<b>Caño Majagual</b>	<b>95</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>
<b>Caño Maní</b>	<b>49</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>
<b>Caño Merle PRWK78A</b>	<b>5</b>	<b>No</b>	<b>Dissolved Oxygen Fecal Coliform Flow Alteration(s) Surfactants</b>	<b>Fecal Coliform</b>
<b>Caño Merle Estuary PRWE78A</b>	<b>-</b>	<b>No</b>	<b>Dissolved Oxygen Surfactants Total Coliform</b>	<b>None</b>
<b>Quebrada Pulida</b>	<b>-</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>
<b>Quebrada Maga</b>	<b>-</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>
<b>Quebrada Guifen</b>	<b>-</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>
<b>Quebrada Grande</b>	<b>81</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>
<b>Quebrada del Oro</b>	<b>56</b>	<b>No</b>	<b>Fecal Coliform</b>	<b>Fecal Coliform</b>

<sup>6</sup> Puerto Rico 303(d) Listed Waters for Reporting Year 2014  
[http://iaspub.epa.gov/waters10/attains\\_impaired\\_waters.impaired\\_waters\\_list?p\\_state=PR&p\\_cycle=2014](http://iaspub.epa.gov/waters10/attains_impaired_waters.impaired_waters_list?p_state=PR&p_cycle=2014)

Waterbody Segment that receives flow from the MS4	Number of Outfalls into receiving waterbody segment	Has any monitoring been performed to outfalls? (Yes/No)	List of Pollutant(s) causing impairment <sup>6</sup> (if applicable)	List of TMDL Pollutant (s) (if any)
<b>PRWQ80A</b>				
<b>Río Grande de Añasco PRWR83A</b>	<b>6</b>	<b>No</b>	<b>Cyanide Dissolved Oxygen Fecal Coliform Turbidity</b>	<b>Fecal Coliform</b>
<b>Río Hondo PRWR77B</b>	<b>-</b>	<b>No</b>	<b>Fecal Coliform</b>	<b>Fecal Coliform</b>
<b>Río Yagüez PRWR79A</b>	<b>66</b>	<b>Yes</b>	<b>Copper Cyanide Lead Mercury Total Coliform Turbidity</b>	<b>None</b>
<b>Río Yagüez Estuary PRWE79A</b>	<b>3</b>	<b>No</b>	<b>Fecal Coliform</b>	<b>Fecal Coliform</b>
<b>Bahía Mayagüez</b>	<b>67</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>



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
<b>BMP 4 - Public Stakeholder and Community Meetings</b>	<b>Yes</b>	<b>Yes</b>	<b>General public Community leaders</b>	<b>No</b>
<b>BMP 5 - Attitude Surveys</b>	<b>No</b>	<b>Yes</b>	<b>General public  The Municipality drafted the storm water attitude survey, but has not been distributed. After finalized the attitude survey, the Municipality has not held activities to distribute the survey.</b>	<b>No</b>
<b>MCM 3 – Illicit Discharge Detection and Elimination</b>				
<b>BMP 1 - IDDE Ordinance</b>	<b>Yes</b>	<b>Yes</b>	<b>General public and Municipal enforcement personnel</b>	<b>No</b>
<b>BMP 2 - Outfall Reconnaissance Inventory (ORI)</b>	<b>No</b>	<b>Yes</b>	<b>General public The Municipality has identified an estimated 70% of the outfalls. The identification will continue and will be completed by December 2017.</b>	<b>No</b>
<b>BMP 3 - Storm Sewer System Map</b>	<b>Yes</b>	<b>Yes</b>	<b>General public and SWMP implementation personnel 70% of the Storm Sewer System Map, as required in NPDES MS4 General Permit 2006, has been completed. The Municipality's SWMP of May 2016 established the storm sewer system maps will be completed by December 2017.</b>	<b>No</b>
<b>BMP 4 - Illicit Discharge Detection, Identification and Elimination Program</b>	<b>Yes</b>	<b>Yes</b>	<b>General public Municipal SWMP implementation and enforcement personnel</b>	<b>No</b>
<b>BMP 5 - Illegal Dumps Detection, Identification and Elimination Program</b>	<b>Yes</b>	<b>Yes</b>	<b>General public Municipal SWMP implementation and enforcement personnel</b>	<b>No</b>
<b>BMP 6 - Sanitary Overflows Detection, Identification and Elimination Program</b>	<b>Yes</b>	<b>Yes</b>	<b>General public Municipal SWMP implementation and enforcement personnel</b>	<b>No</b>



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
<b>MCM 4 – Construction Site Storm Water Runoff Control</b>				
<b>BMP 1 - Construction Ordinance</b>	Yes	Yes	Designers Developers Contractors Construction site operators Inspectors Municipal enforcement personnel	No
<b>BMP 2 - Construction Site Plans Review</b>	No	Yes	Designers, developers, contractors, construction site operators, inspectors, municipal SWMP implementation and enforcement personnel.  The Municipality recently developed the Regulation for the implementation of the Construction Ordinance, including the procedures for the plan review, but the implementation has not started.	No
<b>BMP 3 - Consideration of Information Submitted by the Public</b>	Yes	Yes	General public Municipal SWMP implementation and enforcement personnel	No
<b>BMP 4 - Construction Site Inspection and Enforcement</b>	No	Yes	Designers, developers, contractors, construction site operators, inspectors, municipal SWMP implementation and enforcement personnel.  The Municipality recently developed the Regulation for the implementation of the Construction Ordinance, including the procedures for the inspections, but the implementation has not started.	No
<b>MCM 5 – Post-Construction Storm Water Management in New Development and Redevelopment</b>				
<b>BMP 1 – Post-construction Ordinance</b>	Yes	Yes	Designers Developers Contractors Construction site operators Inspectors	No

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
			<p>The Municipality has not achieved its goal because has not finalized procedures for the implementation of the Post-construction ordinance. These procedures will be finalized by December 2016.</p>	
<p><b>BMP 2 - Structural and Non-structural BMP(s) Guide and Educational Material</b></p>	<p>No</p>	<p>Yes</p>	<p>Designers Developers Contractors Construction site operators Inspectors Municipal SWMP implementation and enforcement personnel</p> <p>The Municipality has not achieved its goal because has not finalized the Structural and Non-structural BMP(s) Guide. This guide will be finalized by December 2016.</p>	<p>No</p>
<p><b>BMP 3 - Inspection and Maintenance Program</b></p>	<p>No</p>	<p>Yes</p>	<p>Designers Developers Contractors Construction site operators Inspectors Municipal SWMP implementation and enforcement personnel</p> <p>The Municipality has not achieved its goal because has not finalized procedures for the implementation of the Post-construction ordinance. The procedures will be finalized by December 2016.</p>	<p>No</p>
<p><b>MCM 6 – Pollution Prevention and Good Housekeeping for Municipal Operations</b></p>				

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
<b>BMP 1 - Operations and Maintenance (O &amp; M) Programs</b>	<b>No</b>	<b>Yes</b>	<b>Municipal Public Works personnel Municipal Emergency Management Office personnel</b>  <b>The Municipality has been conducting inspections to municipal facilities to determine which facilities, prioritized by pollution potential, need an Operation and Maintenance Plan, but has not developed O &amp; M Plans.</b>	<b>No</b>
<b>BMP 2 - Stormwater Pollution Prevention Plans (SWPPP)</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal Public Works personnel</b>	<b>No</b>
<b>BMP 3 - Staff Training Program</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal Public Works personnel Municipal Emergency Management Office personnel</b>	<b>No</b>

## 2.9 Part I. 2016 Stormwater Management Program (SWMP) Summary

### 2.9.1 PUBLIC EDUCATION AND OUTREACH:

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.)
<b>BMP 1 - Distribution of Storm Water-Related Material</b>	<b>Illicit Discharges Pet Waste Vehicle Maintenance and Washing Septic System Maintenance Painting Activities Lawn maintenance activities</b>	<b>Distribution of material during community presentations, in municipal offices, and posting of brochures, flyers and posters available through the Municipal webpage</b>	<b>Number of storm water related activities conducted each year and the target audience Number of people that attended the storm water activities, signed the guest book and took a pamphlet/booklet Number of posts of educational material each year in the Stormwater Webpage</b>
<b>BMP 2 - Storm Water-Related Public Service</b>	<b>Illicit Discharges and Waste Control</b>	<b>Public Service Announcements transmitted</b>	<b>Number of radio segments transmitted each year, with the goal of one PSA to</b>

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.)
<b>Announcements</b>	<b>Erosion and Sediment Control Septic System Maintenance Sanitary System Overflows</b>	<b>through local radio station</b>	<b>each target audience each month Number of PSAs published in the official Facebook page of Mayagüez Municipality each year Number of PSAs announced during Municipal Cultural activities each year.</b>
<b>BMP 3 - Publish SWMP information in Storm Water Related Section in the Municipal Website</b>	<b>Illicit Discharges and Waste Control Erosion and Sediment Control Septic System Maintenance Sanitary System Overflows</b>	<b>Post information in Storm Water Related Section in the Municipal Website</b>	<b>Number of updates to the storm water web page Number of visits to the storm water webpage each year Number “shares” and “likes” to the storm water information posted in the Municipality’s official Facebook Fan Page each year</b>
<b>BMP 4 - Municipal Employee Training Program</b>	<b>SWMP Implementation Illicit Discharge Detection and Elimination Erosion and Sediment Control Good Housekeeping in Specific Municipal Operations.</b>	<b>Annual trainings</b>	<b>A minimum of 90% of employees directly involved in SWMP implementation trained each year. A minimum of 80% of all municipal personnel trained annually in storm water program general awareness.</b>

**2.9.2 PUBLIC INVOLVEMENT AND PARTICIPATION:**

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.)
<b>BMP 1 - Annual Cleanup Campaign</b>	<b>The Municipality in collaboration with the Scuba Dogs Society will organize working groups with volunteers,</b>	<b>% of communities by ward impacted by stream miles cleaned each year.</b>

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.)
	<b>communities, environmental groups and schools. This activity helps in removing potential pollutants such as waste and debris before it reaches our water bodies and promotes awareness to our community in the importance of storm water and water bodies pollution prevention.</b>	<b>Number participants in stream cleanup activities and the volunteer groups. Quantity (pounds) of trash and recyclables removed during the cleanup event.</b>
<b>BMP 2 - Community Hotline for Storm Water Issues and Complaints</b>	<b>Received storm water related complaints will be referred to the Municipal Emergency Management Office. The Hotline information has been included in educational material and as part of the Public Service Announcements transmitted weekly by radio.</b>	<b>% of storm water related complaints solved. % of municipal staff in charge of the community hotline trained each year.</b>
<b>BMP 3 - Support to Local Organization(s)</b>	<b>The Municipality will support local organizations to incorporate ideas and resources of local governments, citizens, nonprofit environmental groups, and local universities into a single organization. This organization will sponsor community activities to promote the importance of the water resources and its benefits to the community. The Municipality will support the organizations providing educational material, meeting places and sponsorship for their individual activities.</b>	<b>Number of local organizations identified and supported each year. Number of activities supported/sponsored each year.</b>
<b>BMP 4 - Public Stakeholder and Community Meetings</b>	<b>The Municipality will hold public stakeholder and community meetings each year to allow public input and the participation of community leaders in a Storm Water Management Panel. In addition, the Municipality will hold community meetings and will inform on different storm water related topics specific to their area. Information will be solicited regarding their stormwater concerns or issues specific to each community.</b>	<b>% of stakeholder attendees at the semi-annual stakeholder meetings each year. Number of attendees to community meetings each year. % of storm water related concerns investigated each year. % of validated stormwater related issues solved each year.</b>

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.)
<b>BMP 5 - Attitude Surveys</b>	<p><b>The Municipality will use a strategy for measuring public awareness using an attitude survey. The results of the surveys will be used to measure the effectiveness of educational activities, make programmatic changes and improvements over the permit term, and evaluate program effectiveness and general outreach to the community.</b></p> <p><b>Attitude surveys help on the understanding of how the public perceives storm water management, and help to develop better planning and management programs. The results of these attitude surveys can enlighten both storm water managers and the public on pollution sources, storm water effects, and control options. Program planners can use this information to determine how best to incorporate the community needs into the overall goals of the SWMP.</b></p>	<p><b>% of attendees to Community meetings completed attitude surveys each year.</b></p> <p><b>% of municipal employees completed attitude survey each year.</b></p>

**2.9.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION:**

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will identify 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.)
<b>BMP 1 - IDDE Ordinance Implementation</b>	<p><b>The Municipality's IDDE Ordinance establishes the regulatory mechanism to prohibit non-storm water discharges into the storm sewer system, including the applicable fines. As part of the IDDE Ordinance implementation, the Municipality will inspect the MS4 network and the areas will be prioritized, and illicit discharges eliminated. Follow-up inspections will be conducted to priority areas.</b></p>	<p><b>% of attendance to annual training to municipal staff in charge of illicit discharges investigation and IDDE Ordinance enforcement.</b></p> <p><b>% of attendance to annual general training in IDDE to municipal personnel.</b></p> <p><b>% of storm water related complaints solved.</b></p> <p><b>% of illicit discharges or connection identified removed.</b></p>

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will identify 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.)
	<p><b>The investigation of illicit discharges and implementation of the IDDE Ordinance will be performed in a dynamic way, therefore the frequency of its implementation will be “continuous”. The Municipal Regulation for the Implementation of the IDDE Ordinance includes a protocol to identify outfalls, a protocol to inspect the MS4 network, a protocol to inspect and refer sanitary sewer overflows (SSOs), a protocol for illegal dumpsites and a protocol to investigate illicit discharges. The Regulation includes the forms to be filled to document the inspections.</b></p> <p><b>The implementation of this BMP will include annual trainings to municipal employees.</b></p>	
<b>BMP 2 - Outfall Inventory</b>	<p><b>All outfalls identified will be inspected according to Sec 2.4.4.7 of MS4’s NPDES General Permit Number PRR040000.</b></p>	<p><b>Complete outfalls inventory no later than one (1) year from the authorization under MS4’s NPDES General Permit Number PRR040000.</b></p> <p><b>Inventory updated annually</b></p>
<b>BMP 3 - Revised Storm Sewer System Map</b>	<p><b>Include the elements listed in Section 2.4.4.6 of the MS4’s NPDES General Permit Number PRR040000 in the Storm Sewer System Map.</b></p>	<p><b>Revised Storm Sewer System Map completed by the second year after obtaining authorization under the MS4’s NPDES General Permit Number PRR040000.</b></p>
<b>BMP 4 - Illicit Discharge Detection, Identification and Elimination Program</b>	<p><b>The Municipality’s IDDE program will follow four (4) main steps: locate the problem area by using public complaints, identification by municipal staff, or during regular system maintenance and inspection activities; detection of source of the illicit discharge problem; notify the offending discharger, enforce the IDDE Ordinance and remove or correct the problem; and document the actions taken.</b></p> <p><b>This BMP will be implemented pursuant Section</b></p>	<p><b>% of illicit discharges reported or identified investigated yearly.</b></p> <p><b>% of illicit discharges reported or identified eliminated under IDDE ordinance yearly.</b></p> <p><b>% of attendance to annual training to municipal staff in charge of illicit discharges investigation and IDDE Ordinance enforcement.</b></p> <p><b>% of attendance to annual general training in IDDE to municipal personnel.</b></p>

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will identify 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.)
	<b>2.4.4.8 of the MS4's NPDES General Permit Number PRR040000.</b>	
<b>BMP 5 - Illegal Dumps Detection, Identification and Elimination Program</b>	<b>Municipality is developing an inventory of illegal dumpsites. The Municipality will post signs with information of the applicable ordinances and the penalties for disposing wastes on unpermitted areas; the known areas used for illegal disposing of solid waste will be inspected weekly; and dumpsites will be eliminated. Emphasis will be placed on nonresidential facilities, such as industrial and business.</b>	<b>Number of posted signs in areas prone to illegal dumping. Number of inspections to areas prone to illegal dumping each year. % of reported or identified illegal dump sites eliminated each year.</b>
<b>BMP 6 - Sanitary Overflows Detection, Identification and Elimination Program</b>	<b>The Municipality will set an interagency agreement with PRASA as part of the implementation of the program for detection and elimination of SSOs. The Municipality will implement a protocol to inspect and to notify PRASA of sewage overflows. Quick action by PRASA will help in minimize pollution to the MS4 and water bodies.</b>	<b>An interagency agreement set with PRASA Developed inventory of SSOs, monthly update and distribution to PRASA. % of SSO inspected and reported to PRASA each year.</b>

#### 2.9.4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL:

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.)
<b>BMP 1 - Construction Ordinance Implementation</b>	<b>The Municipality will continue to implement municipal ordinance requiring erosion and sedimentation controls for polluted runoff from construction sites with a land disturbance of greater than or equal to one acre (4,046.85 square meters) or if the construction activity disturbs less than one acre but is part of a</b>	<b>Implementation of the Municipal Regulation for documents requirement and review; construction site inspections and Ordinance Enforcement % of attendance to training to municipal implementation personnel each year.</b>

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.)
	<b>larger common plan of development or sale that would disturb one acre or more.</b>	<b>% of attendance to training to municipal employees each year. Number of construction professionals attending to training each year.</b>
<b>BMP 2 - General Construction Site Waste Controls</b>	<p><b>To comply with this BMP, the Municipality developed an ordinance for storm water runoff control at construction sites. The inspection staff will conduct the construction site waste controls inspection and follow up on the correction of deficiencies encountered during the inspections.</b></p> <p><b>The implementation includes trainings to inspection staff and construction related professionals.</b></p>	<b>Number of erosion control projects reviewed. Number of inspections conducted.</b>
<b>BMP 3 - Consideration of Information Submitted by the Public</b>	<p><b>The community will be informed of the required best management practices for construction projects and of the mechanisms to report violations to the SWMP by mean of information posted in the municipal webpage, distributed educational material and the public service announcements.</b></p> <p><b>The construction related complaints will be investigated and the Construction Ordinance will be implemented as needed.</b></p> <p><b>This BMP includes annual training to implementation personnel.</b></p>	<p><b>% of storm water complaints investigated each year.</b></p> <p><b>% of storm water related complaints solved each year.</b></p> <p><b>% of municipal staff in charge of the community hotline trained each year.</b></p>
<b>BMP 4 - Construction Site Inspection and Enforcement</b>	<b>The Municipality will inspect each construction site subject to compliance with the construction ordinance at least once at the beginning of the land disturbance and once after the ending of the project. If storm water related issues are identified, the Municipality will conduct additional inspections. The detailed procedures for the inspection of construction sites is</b>	<p><b>% of construction projects subject to compliance with the construction ordinance inspected.</b></p> <p><b>% of attendance to training to municipal implementation personnel each year.</b></p> <p><b>% of attendance to training to municipal employees each year.</b></p>

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.)
	<p><b>included in the Municipal Regulation for the Enforcement Procedures for the Construction Ordinance.</b></p> <p><b>The implementation of this BMP includes annual trainings to municipal implementation staff, to municipal employees and to construction related professionals.</b></p>	<p><b>Number of construction professionals attending to training each year.</b></p>

**2.9.5 POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT:**

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.)
<p><b>BMP 1 - Post-construction Ordinance Implementation</b></p>	<p><b>The Municipality's Post-construction ordinance applies to all new development and re-development in post-construction located within the Municipality of Mayagüez impacting an area equal to or greater than one (1) acre (4,046.85 square meters) or smaller projects that are part of a common plan of development in stages.</b></p> <p><b>The Municipality will charge all developments and re-developments in post-construction subject to compliance with the ordinance an impact fee of a thousand dollars (\$1,000) for the concept of interconnection of the project storm sewer system to the Municipality's MS4; and a hundred dollars (\$100) for each basic housing unit included in the project. However, if the developer manages storm water discharges within the project and does not discharge</b></p>	<p><b>% of new development or redevelopment opted to manage their stormwater inside their facilities, each year.</b></p> <p><b>% of attendance to training to municipal implementation personnel each year.</b></p> <p><b>% of attendance to training to municipal employees each year.</b></p> <p><b>Number of construction professionals attending to training each year.</b></p>

<p>BMP Description or BMP ID (e.g. MCM-1)</p>	<p>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.)</p>	<p>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.)</p>
	<p><b>into the Municipality's MS4, the project would be exempt from any fee.</b>  <b>The implementation of the ordinance includes annual trainings to municipal implementation staff, municipal employees, developers, contractors, designers and other construction related professionals.</b></p>	
<p><b>BMP 2 - Structural and Non-structural BMP(s) Guide and Educational Material</b></p>	<p><b>The Municipality's Structural and Non-structural BMP(s) Guide includes structural BMPs for storage practices for stormwater; filtration practices; and infiltration practices. The non-structural BMPs include the post-construction ordinance promoting the management of stormwater within each development or re-development; educational information about project designs that minimize water quality impacts; including protection to sensitive areas such as wetlands and riparian areas; alternatives to minimizing impervious surfaces and minimizing disturbance of soils and vegetation; and other BMPs such as good housekeeping, preventive maintenance and spill prevention.</b>  <b>The implementation of this Guide will include annual trainings to inspection staff, developers, contractors, designers and other construction related professionals.</b></p>	<p><b>Amount of Structural and Non-structural BMP(s) Guides distributed yearly.</b>  <b>% of attendance to training to municipal implementation personnel each year.</b>  <b>Number of construction professionals attending to training each year.</b></p>
<p><b>BMP 3 - Inspection and Maintenance Program</b></p>	<p><b>The post-construction ordinance provides legal authority to the Municipality to implement the Operation and Maintenance Post Construction BMP's Program in new private developments and re-developments. The developer or operator shall present, as requested the Municipality, an Operation &amp; Maintenance (O&amp;M) plan of the structural and/or non-</b></p>	<p><b>Developed O&amp;M Plan for retention ponds, streets and open spaces of new developments and re-developments.</b>  <b>% of new development or redevelopment inspected immediately after the installation of the BMPs, each year.</b>  <b>% of deficiencies found during inspections</b></p>

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.)
	<p><b>structural measures within the new development or re-development to manage the storm water of the facility. The BMPs must be inspected to verify the effectiveness and structural integrity. The inspector shall document whether the BMP is working properly, any damage to the BMP, and any repairs needed. The Municipality will develop an inspection and maintenance program to maintain the effectiveness of post-construction storm water control BMPs; and will prepare a protocol for the review of operation and maintenance plans and for the inspection of new developments and re-developments. The protocol will establish in detail the review and inspection process that will be followed by municipal employees to ensure the compliance with the post-construction ordinance. Each new development or re-development subject to compliance with the ordinance and connected to the MS4 of the Municipality of Mayagüez will be inspected at least once after the installation of the BMPs for storm water management and control. If deficiencies are found, a follow up inspection will be conducted after the period provided to correct those deficiencies. In addition, the Municipality will develop an Operation &amp; Maintenance Plan for the retention ponds, open spaces and streets transferred to the Municipality of Mayagüez. The implementation of this BMP will include annual trainings to inspection staff, developers, contractors, designers and other construction related professionals.</b></p>	<p><b>addressed and corrected each year. % of attendance to training to municipal implementation personnel each year. Number of construction professionals attending to training each year.</b></p>

**2.9.6 GOOD HOUSEKEEPING AND POLLUTION PREVENTION IN MUNICIPAL OPERATIONS**

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will mitigate stormwater runoff at municipal properties or 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.)
<b>BMP 1 - Operations and Maintenance (O &amp; M) Programs</b>	<p><b>The Municipality is identifying and evaluating the municipal facilities with pollution potential to water bodies to develop Operation and Maintenance (O&amp;M) Plans according to the activities conducted. All municipal facilities will be inspected once to develop an inventory of municipal activities and to determine the pollution potential. The Municipality will review this inventory yearly and update as necessary. With the information gathered from the inspections, the Municipality will develop written operations and maintenance procedures for the following municipal activities:</b></p> <ul style="list-style-type: none"> <li>• <b>Parks and open spaces</b></li> <li>• <b>Buildings and facilities where pollutants are exposed to stormwater runoff</b></li> <li>• <b>Vehicles and Equipment</b></li> <li>• <b>Infrastructure Operations and Maintenance</b></li> </ul> <p><b>The O&amp;M plans will be developed according to the activities conducted at each facility and will include procedures for the management of materials generated from each activity and its disposal. In addition, the O&amp;M Plans will include the working schedule, equipment or machinery to be used and number of persons assigned to each activity. The implementation of this BMP will include annual trainings to municipal staff</b></p>	<p><b>Inventory of 100% of the municipal facilities inspected;</b>  <b>% of the O&amp;M Plans for facilities and/or activities with stormwater pollution potential developed.</b>  <b>Implementation of the O&amp;M Plans each year</b>  <b>% of the storm drain system inspected yearly. The Municipality will use the storm drain maps to draft a schedule of inspection and determine the percentage of completion.</b>  <b>% of attendance to training to municipal implementation personnel each year.</b>  <b>% of attendance to training to municipal employees each year.</b></p>
<b>BMP 2 - Stormwater Pollution Prevention</b>	<b>The Municipality developed and is implementing a SWPPP for the Municipal Public Works facility. In</b>	<b>Develop SWPPPs for 100% of municipal facilities needing it.</b>

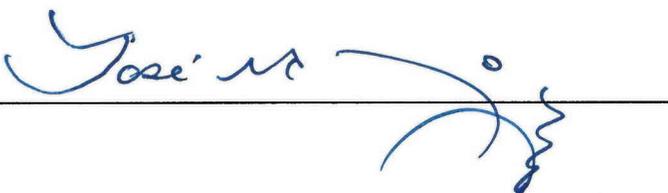
BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will mitigate stormwater runoff at municipal properties or through municipal activities, e.g. installation of structural stormwater controls on the municipal properties, new practices to reduce pollutant exposure 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.)
<b>Plans (SWPPP)</b>	<p><b>addition, a SWPPP for the Municipal Emergency Management Office will be developed. With the inspection of the municipal facilities and the development of the O&amp;M Plans, the Municipality is evaluating if other municipality-owned or operated facilities need a separate SWPPP. The Municipality will develop SWPPPs to facilities handling and storing materials with pollution potential and for any municipal facility requiring an Industrial NPDES Permit.</b></p> <p><b>The Municipality will inspect, at least once, each calendar quarter the priority municipal facilities. More frequent inspections may be required if pollution findings are detected. Inspections will be performed when the facility is in operation. At least one (1) of the quarterly inspections will be performed when a stormwater discharge is occurring.</b></p> <p><b>The Municipality will repair or replace any control measure identified during inspections that need repair or is not operating effectively as soon as practicable and will have back-up measures in place as needed.</b></p> <p><b>The implementation of this BMP will include annual trainings to municipal staff in charge of the implementation of the SWPPPs.</b></p>	<p><b>Implementation of SWPPP each year.</b></p> <p><b>Number of inspection visits yearly to municipal facilities with storm water pollution potential.</b></p> <p><b>% of attendance to training to municipal implementation personnel each year.</b></p> <p><b>% of attendance to training to municipal employees each year.</b></p>
<b>BMP 3 - Materials Management Program</b>	<p><b>The Municipality will develop procedures for responsibly managing chemicals, such as fertilizers, solvents, paints, cleaners, and automotive products. In addition will also develop procedures for the use of alternative products that will prevent their hazardous</b></p>	<p><b>Inventory of facilities storing hazardous materials or wastes.</b></p> <p><b>Number of inspection visits yearly to municipal facilities storing hazardous materials.</b></p> <p><b>% of attendance to training to municipal</b></p>

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will mitigate stormwater runoff at municipal properties or 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.)
	<p><b>counterparts from being disposed of improperly and contaminating storm water.</b></p> <p><b>This program will include practices for managing materials by improving the maintenance of machinery, establishing material storage and inventory controls, improving routine cleaning and inspection of facilities where materials and wastes are stored or processed, maintaining organized workplaces, and educating employees.</b></p>	<p><b>implementation personnel each year.</b></p> <p><b>% of reduction in the amount of hazardous waste generated by municipal operations each year.</b></p>
<p><b>BMP 4 - Spill Response and Prevention Program</b></p>	<p><b>The Municipality will develop procedures for spill response and prevention plans that will state how to stop, contain, cleanup, dispose of contaminated materials, and train personnel to prevent and control future spills. This plan will be applicable to all sites where hazardous materials are stored or used. Municipal employees will be trained at least once a year about spill response and prevention techniques.</b></p>	<p><b>Inventory of municipal facilities with risk for spills.</b></p> <p><b>Development of spill response and prevention plan.</b></p> <p><b>Number of preventative maintenances to tanks, valves, pumps, pipes, and other equipment each year.</b></p> <p><b>% of attendance to training to municipal implementation personnel each year.</b></p>
<p><b>BMP 5 - Staff Training Program</b></p>	<p><b>The Municipality will conduct training, once a year, to implementation staff and to municipal employees. Trainings will be conducted to municipal personnel in charge of implementing the activity specific O&amp;M Plans; the facility specific SWPPPs; to municipal employees working in areas where hazardous and non-hazardous materials or activities are exposed to stormwater; and general training to municipal employees in Pollution Prevention and Good Housekeeping for Municipal Operations. Trainings will cover as a minimum:</b></p>	<p><b>Development of training material for the different training themes.</b></p> <p><b>% of attendance to annual training to municipal implementation personnel in activity specific O&amp;M Plans.</b></p> <p><b>% of attendance to annual training to municipal implementation personnel in facility specific components of the SWPPP.</b></p> <p><b>% of attendance to training to municipal employees working in areas where materials or activities have a pollution potential to water</b></p>

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will mitigate stormwater runoff at municipal properties or 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.)
	<ul style="list-style-type: none"> <li>• <b>Specific components and scope of the SWPPP;</b></li> <li>• <b>Spill response and prevention techniques (hazardous and non-hazardous);</b></li> <li>• <b>Good housekeeping;</b></li> <li>• <b>Material storage and management practices (hazardous and non-hazardous); and</b></li> <li>• <b>BMPs for operation and maintenance (O&amp;M Plans).</b></li> </ul> <p><b>Municipal employees who are directly involved in potentially polluting activities such as materials management would receive both general stormwater and targeted BMPs training tailored to their activities. The trainings will be provided indoor and on the field and will be mandatory for all municipal employees involved in activities with stormwater pollution potential.</b></p>	<p><b>bodies.</b>  <b>% of attendance to general training in Good Housekeeping to municipal employees each year.</b>  <b>Number of educational material distributed to municipal employees participating in trainings each year.</b></p>

**2.10 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.

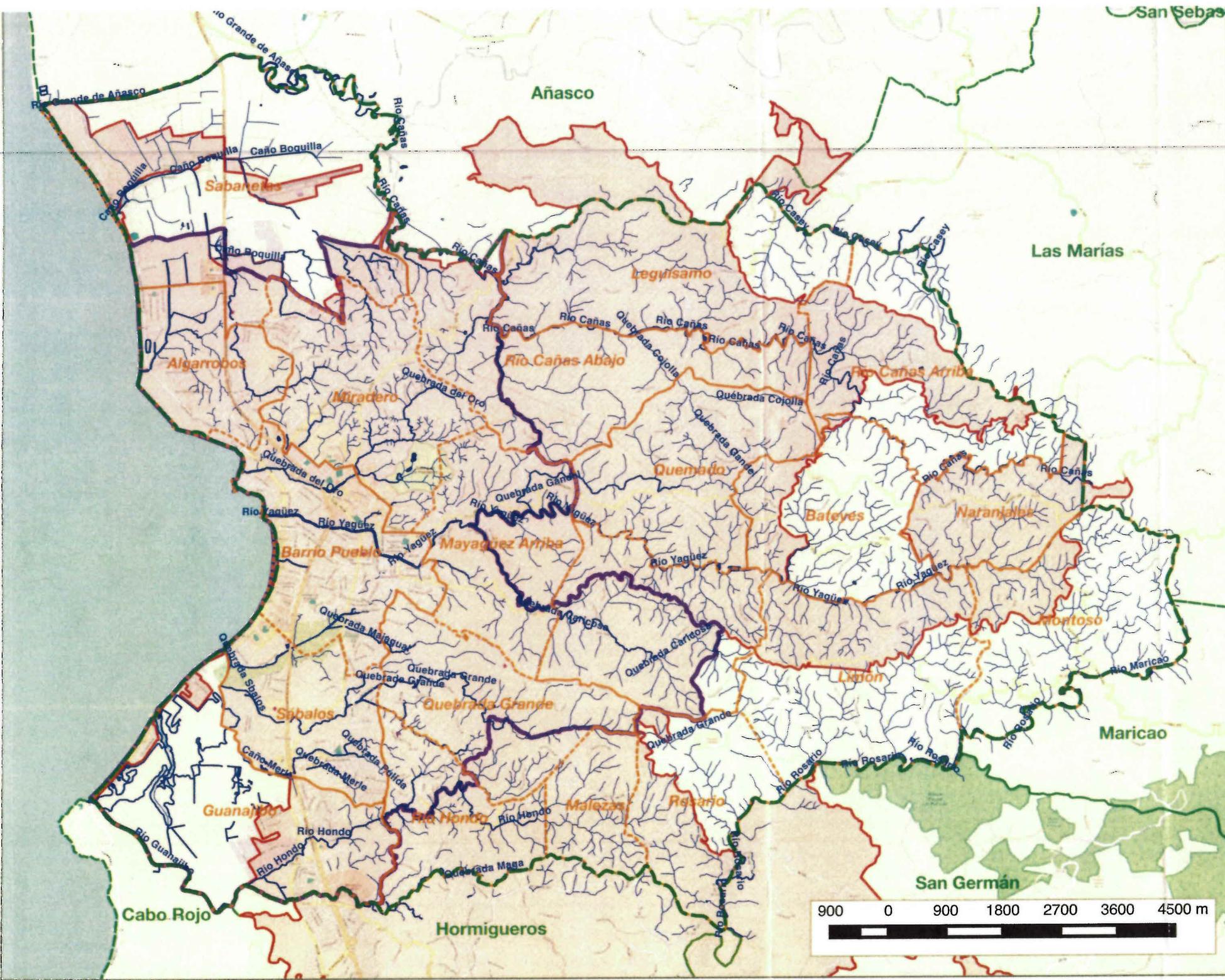
Signature of Mayor/Elected Official: 

Print Name of Mayor/Elected Official: **Hon. José Guillermo Rodríguez-Rodríguez**

Title: **Mayor**

Date: September 26, 2016.

**Appendix A  
Maps**



# Municipality of Mayagüez

NOI - MS4's NPDES  
General Permit  
September 2016

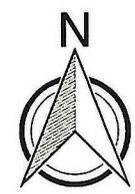
## Mayagüez Boundary Map

### Legend

- Mayaguez boundary
- Wards
- Urbanized Area-Mayaguez
- Urban Area

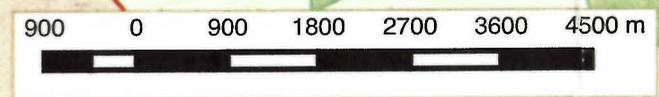
### Hydrography of Mayaguez

- Intermittent
- Perennial

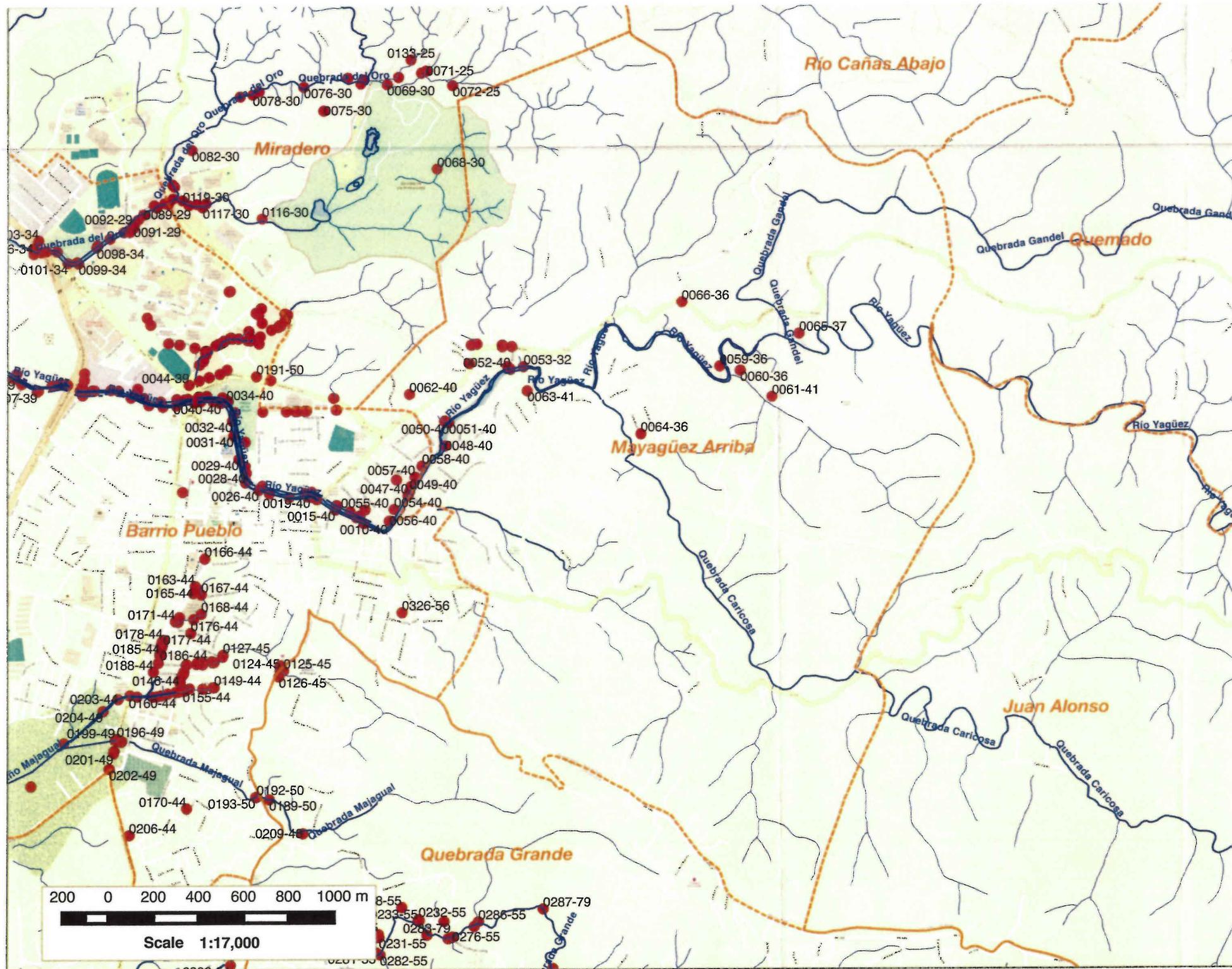


Scale: 1:60,000

Sources:  
Municipality of Mayaguez  
EPA, CRIM, OGP, US Census Bureau  
© OpenStreetMap contributors, CC-BY-SA







**Municipality of  
Mayagüez**

**Outfalls**

**Mayaguez Arriba  
Ward**

**Legend**

- Outfalls
- Mayaguez boundary
- Wards

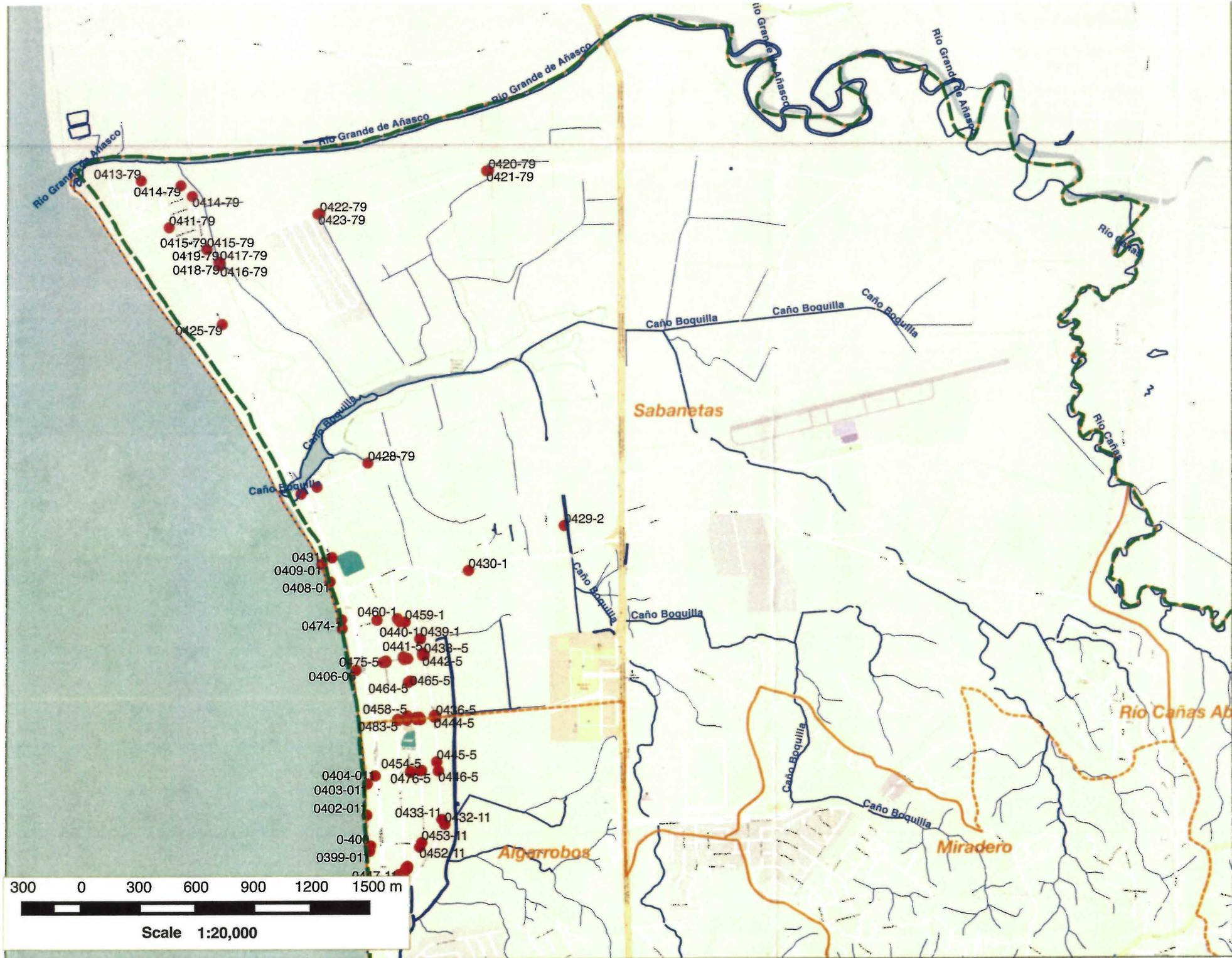
**Hydrography**

- Intermittent
- Perennial



Sources:  
Municipality of Mayaguez  
EPA, CRIM, OGP, US Census Bureau  
© OpenStreetMap contributors, CC-BY-SA





**Municipality of  
Mayagüez**

**Outfalls**

**Sabanetas Ward**

**Legend**

- Outfalls
- ▭ Mayaguez boundary
- ▭ Wards

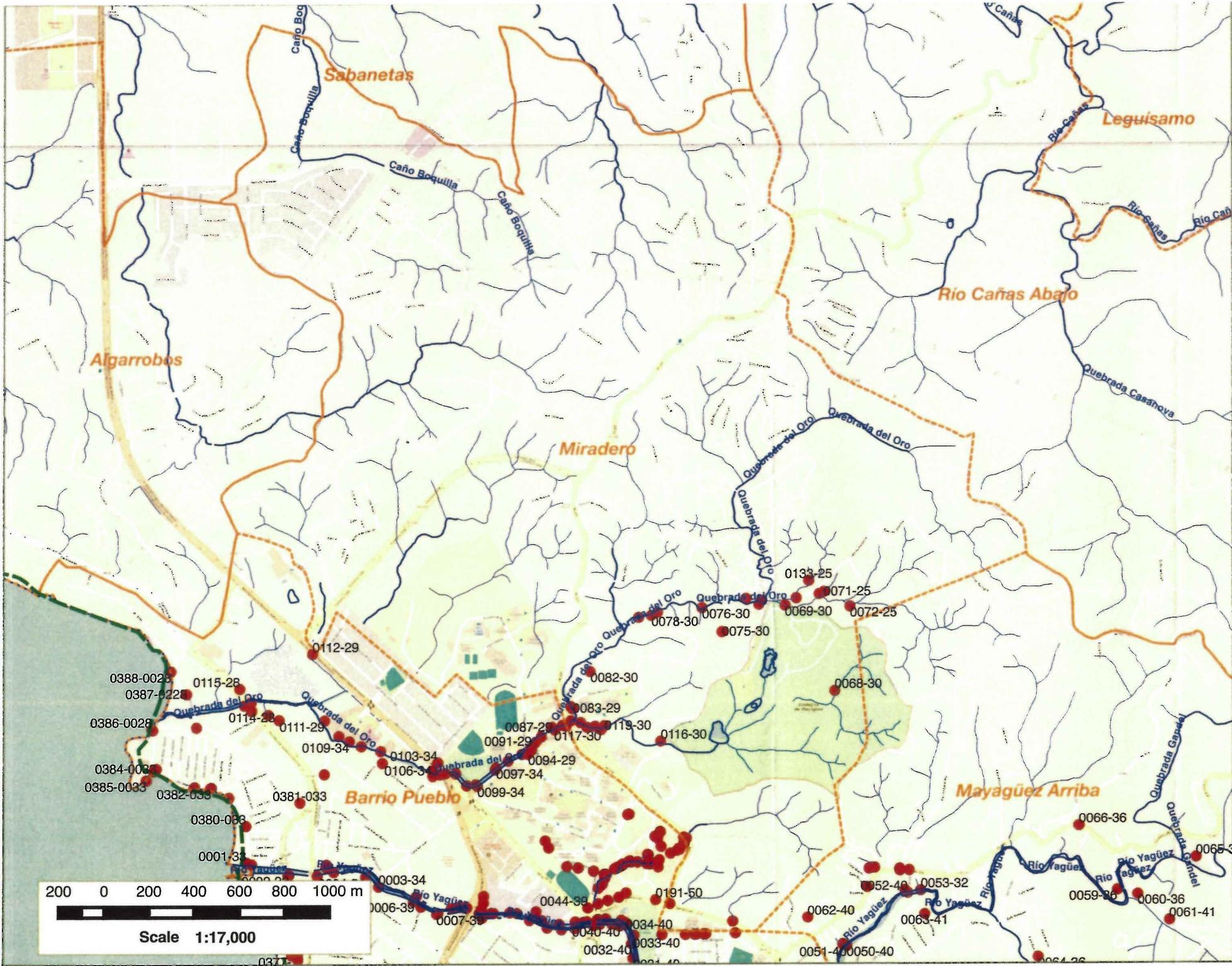
**Hydrography**

- Intermitent
- Perennial



Sources:  
Municipality of Mayaguez  
EPA, CRIM, OGP, US Census Bureau  
© OpenStreetMap contributors, CC-BY-SA

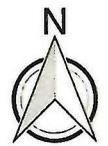




**Municipality of Mayagüez**  
**Outfalls**  
**Miradero Ward**

**Legend**

- Outfalls
- ▭ Mayagüez boundary
- ▭ Wards
- Hydrography**
- Intermittent
- Perennial

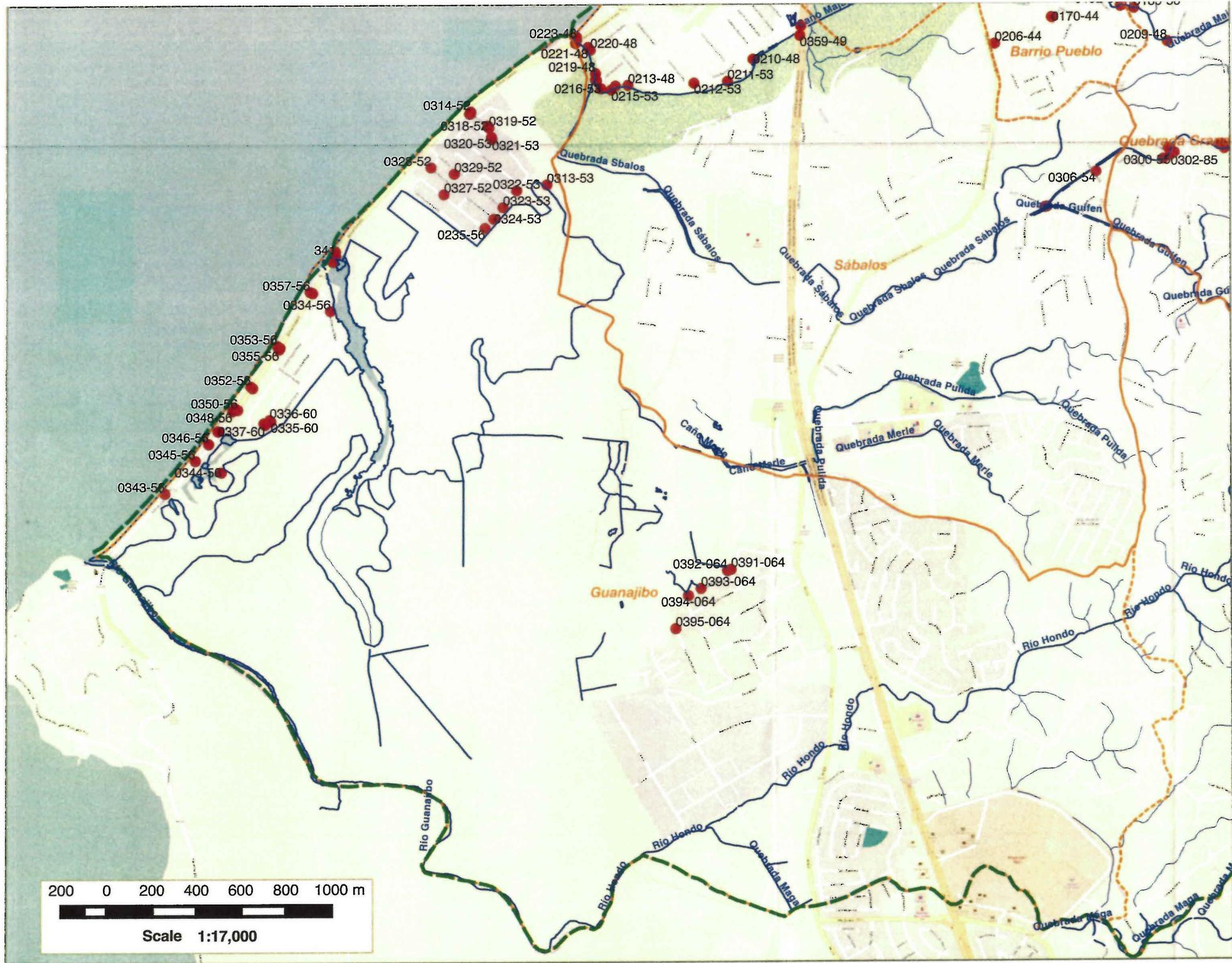


Sources:  
 Municipality of Mayagüez  
 EPA, CRIM, OGP, US Census Bureau  
 © OpenStreetMap contributors, CC-BY-SA



Scale 1:17,000





**Municipality of Mayagüez**  
**Outfalls**  
**Güanajibo Ward**

**Legend**

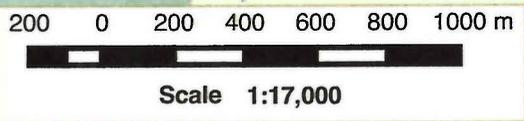
- Outfalls
- ▭ Mayaguez boundary
- ▭ Wards

**Hydrography**

- Intermittent
- Perennial

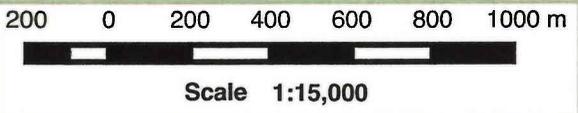
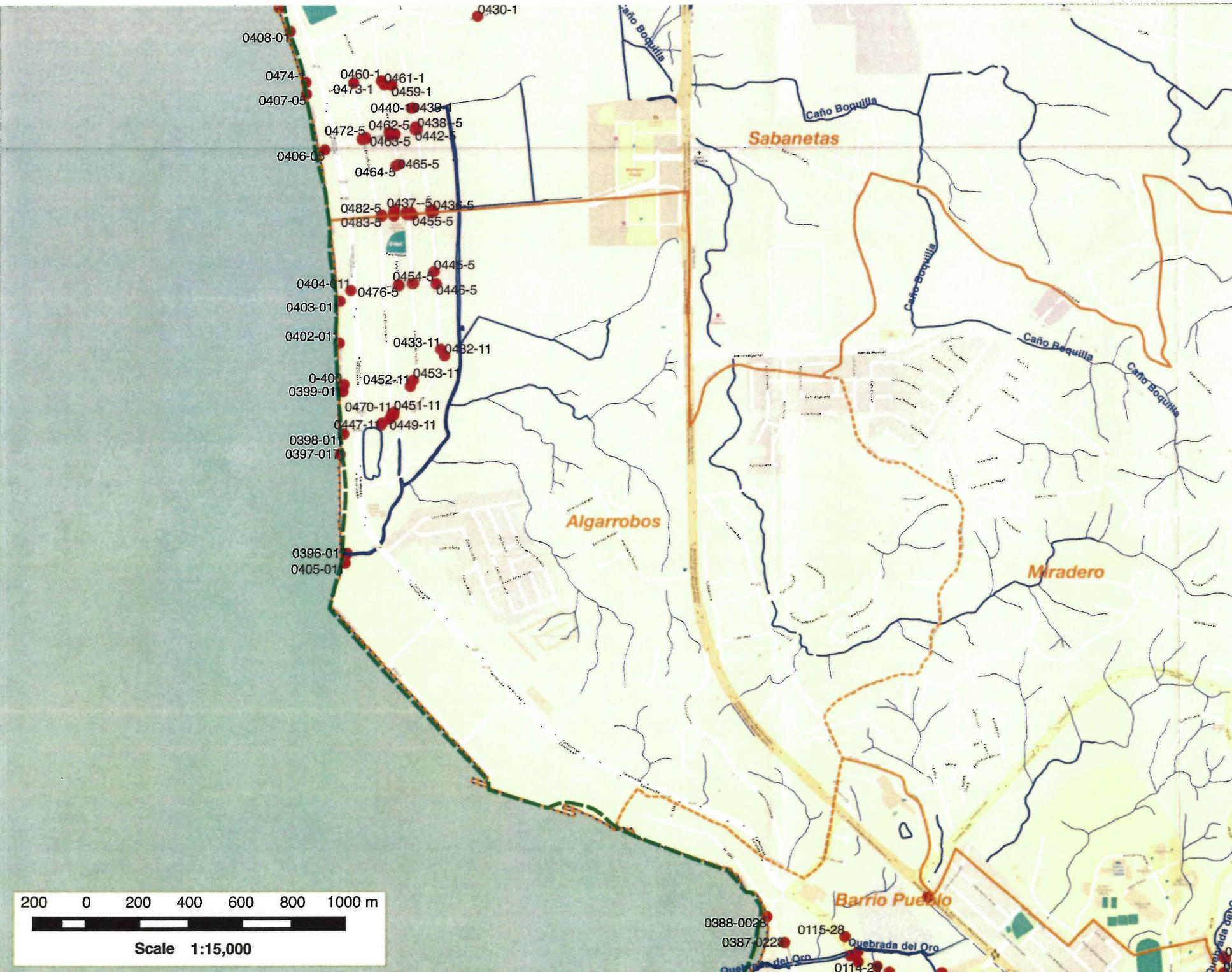


Sources:  
 Municipality of Mayaguez  
 EPA, CRIM, OGP, US Census Bureau  
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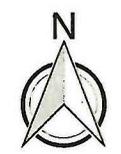
**Municipality of Mayagüez**  
**Outfalls**  
**Algarrobos Ward**

**Legend**

- Outfalls
- ▭ Mayaguez boundary
- ▭ Wards

**Hydrography**

- Intermittent
- Perennial



Sources:  
 Municipality of Mayaguez  
 EPA, CRIM, OGP, US Census Bureau  
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**Appendix B**  
**Eligibility Determination**



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

Caribbean Ecological Services

Field Office

P.O. Box 491

Boqueron, PR 00622

**JUL 27 2016**

In Reply Refer To:

FWS/R4/CESFO/72-097-GEN

Mrs. Keila Pacheco

ACE Environmental, Inc.

Po Box 19895

San Juan, Puerto Rico 00910-9895

Re: Mayaguez NPDES MS4-2014  
Permit

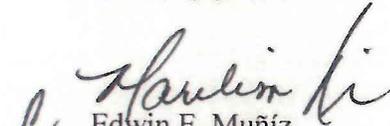
Dear Mrs. Pacheco:

We have reviewed your request for information about endangered and threatened species and their habitats for the above referenced project. Our comments are provided under the Endangered Species Act (Act) of 1973, as amended (87 Stat. 884, as amended; 16 United States Code 1531 et seq.).

The Municipality of Mayaguez, Puerto Rico is requesting coverage under the 2014 NPDES (National Pollutant Discharge Elimination System) General Permit for the MS4 (Municipal Separate Storm Sewer System). The MS4 collected storm water discharge into the Mayaguez Bay.

Based on the information provided and the nature of the permit we believe that the storm water discharge is not likely to adversely affect federally listed threatened or endangered species or their designated critical habitat(s) under our purview. Therefore, no further consultation is required. Nevertheless, if the project is modified or if information on impacts to listed species becomes available this office should be contacted concerning the need for the initiation of consultation under section 7 of the Act.

Sincerely yours,

  
Edwin E. Muñiz  
Field Supervisor

agcs

cc

Municipality of Mayaguez  
EPA, San Juan



September 21, 2016

**Certification**

The Autonomous Municipality of Mayagüez is currently in the process of requesting coverage under the 2014 NPDES (National Pollutant Discharge Elimination System) General Permit for MS4 (Municipal Separate Storm Sewer System). As such, it must determine its eligibility with regard to the protection of historic properties prior to submitting a notice of intent (NOI) for permit coverage.

The Municipality of Mayagüez does not have any stormwater infrastructure projects planned within the area of potential effects (APE) of the historic properties or properties eligible for listing in the National Register of Historic Places. The Municipality therefore is determining eligibility under Criterion A: "There is no potential of an adverse effect on historic properties because there will be no new ground disturbing control measures constructed or installed."

If any municipal infrastructure projects were to take place that could affect any of the above mentioned properties, the Municipality will request a consultation under section 106 of the National Historic Preservation Act (NHPA).

Cordially,



Esther A. Krumhansl Lopez

Interim Director

Department of Economic Development and Planning