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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  
*SG*

**MUNICIPALITY OF AGUADA**  
Box 517  
AGUADA, PR 00602

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**

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### Appendices

#### APPENDIX A – MAPS

- LOCATION/ BOUNDARIES MAP
- OUTFALLS IN URBAN AREA OF AGUADA
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#### APPENDIX B – ELIGIBILITY DETERMINATION

- U.S. 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).

In May 2008, the Municipality of Aguada submitted a Notice of Intent (NOI) requesting coverage under the General NPDES Permit for Discharge from MS4 in accordance with the Storm Water Phase II Rule and a Storm Water Management Plan (SWMP); and was granted coverage with permit number PRR040027. The SWMP 2008 was revised and submitted to USEPA in April 2014. This revised SWMP provides the basis for the MS4 Program implementation.

### 1.2 2016 MS4 General Permit

In May 2016, USEPA signed the General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in the Commonwealth of Puerto Rico, Permit Number PRR040000 promulgated in 2014, which became effective on July 1, 2016. The permit requires permittees to submit a 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 to request coverage under the revised 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 such permit. This NOI fully complies with the requirements of Appendix F (Notice of Intent (NOI) Form for MS4 in Puerto Rico) of General Permit No. PRR040000, effective since July 2016.

## 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 Aguada**
2. Type:  Federal  State  Municipality  Other: **N/A**
3. Existing Permittee:  Yes  No  
If yes, provide EPA NPDES Permit Number: **PRR040027**
4. Location Address:
  - a. Street: **Aguada's City Hall, Colón Street #226**
  - b. City: **Aguada** State: **PR** Zip Code: **00602**
5. Mailing Address:
  - a. Street: **Box 517**
  - b. City: **Aguada** State: **PR** Zip Code: **00602**
6. Telephone Number: **787-868-2112, ext. 2227** Fax: **787-868-4600**
7. E-mail: **oficinadelalcalde@aguada.gov.pr**
8. Standard Industrial Classification (SIC) Code: **9199**
9. Latitude: **18°22'46" N** Longitude: **67°11'18" W**  
*Approximate center of the regulated portion of the MS4.*

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

1. Name: **Luis A. Feliciano Valle**
2. Position Title: **Mayor's Executive Assistant, Mayor's Office**
3. Stormwater Management Program (SWMP) Location (web address or physical location): **Planning and Territory Plan Office, 2<sup>nd</sup> floor of City Hall, Colón Street #226, Aguada, PR**
4. Mailing Address:
  - a. Street: **Box 517**
  - b. City: **Aguada** State: **PR** Zip Code: **00602**
5. Telephone Number: **787-868-2112, ext. 2227**
6. E-mail: **lfeliciano@aguada.gov.pr**

### 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 Municipality of Aguada is located in the coastal valleys region of the Western side of the island of Puerto Rico and is bordered by the Atlantic Ocean. Its coordinates location is at latitude 18°22'46" N and longitude 67°11'18" O, at its South are located the municipalities of Añasco and Mayagüez, at its East are Aguadilla and Moca, and at its West is located Rincón.

The Municipality of Aguada occupies approximately 30 square miles (mi<sup>2</sup>), with an estimated population of 41,959<sup>1</sup> distributed in 20 wards, based on the US Census 2010. The population density was estimated by the US Census 2010 in 1,360 habitants per square mile.

Aguada is organized in eighteen (18) wards: Pueblo, Asomante, Atalaya, Carrizal, Cerro Gordo, Cruces, Espinar, Guanábano, Guaniquilla, Guayabo, Jagüey, Lagunas, Mal Paso, Mamey, Marías, Naranjo, Piedras Blancas and Río Grande. All the wards of the Municipality of Aguada are located within the urbanized area of "Aguadilla-Isabela-San Sebastián, PR", as delimited in the reference maps of urbanized areas of U.S. Census 2010<sup>2</sup>.

Aguada has two (2) urban areas, as defined by the US Census 2010<sup>3</sup>; *Aguada* and *Luyando*. The urban area of *Aguada* includes Pueblo Ward and areas of the wards of Asomante, Guaniquilla, Guayabo and Piedras Blancas. The urban area of *Luyando* includes areas of the wards of Guanábano, Mal Paso and Naranjo.

The Municipality of Aguada operates a municipal separate storm water sewer system located in Aguada, Puerto Rico, which includes the Pueblo Ward, urban centers and rural areas within the municipality.

The delimited urban areas identified by the US Census 2010 occupy approximately 2 square miles within Aguada. The geographic boundaries of the Municipal Separate Storm Sewer System (MS4) plan are the municipality limits.

In the urban areas of the Municipality of Aguada, its MS4 is mainly composed of a series of catch basins, typically located within the right-of-way of municipal and state roads, connected mostly by reinforced concrete or PVC pipes. Aguada's storm drain system discharges directly into Río Culebrinas and its tributary Río Caño; the Río Caño tributaries, Río Cañas and Quebrada el Gallinero; Río Güayabo and its tributary, Río Culebra; and to a channel to Playa Espinal. Río Culebrinas and Río Güayabo

<sup>1</sup> United States Census Bureau; US Census 2010; Population, Housing Units, Area, and Density Summary, Aguada, 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> United States Census Bureau; 2010 Census - Urbanized Area Reference Map: Aguadilla-Isabela-San Sebastián, PR

<sup>3</sup> United States Census Bureau; 2010 Census - Urbanized Area Reference Map: Aguadilla-Isabela-San Sebastián, PR

directly discharge to the Mona Passage. In the rural areas, the MS4 consists mainly in a series of interconnected open channel culverts, running parallel to the municipal and state roads, and usually discharging to lands and reaching surface waterbodies through laminar flow. Interconnected to the Municipal MS4s system are the storm water sewer systems owned and operated by the Puerto Rico Department of Transportation and Public Works.

Also, interconnected to the Municipal MS4s system are the discharges from NPDES (Stormwater) permitted facilities and permitted industrial and commercial facilities.

#### 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 **Map included in Appendix A**

#### 2.5 Part E. MS4 Infrastructure

1. Estimated Percent of Outfall Map Complete? (*Section 4.2.3 of 2006 general permit*):  
**60% of urbanized area, as defined by the US Census 2010 and  
 100% of urban areas, as defined by the US Census 2010**
  - a. If 100% of 2006 requirements are not met, enter an estimated date of completion: **12/31/2017**  
(MM/DD/YYYY)
  - b. Web address where MS4 map is published: **Map 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: **12/12/2012**  
(MM/DD/YYYY)
2. Construction/Erosion and Sediment Control authority adopted?  Yes  No
  - b. Effective Date or Estimated Date of Adoption: **12/12/2012**  
(MM/DD/YYYY)
3. Post-Construction Stormwater Management adopted?  Yes  No
  - c. Effective Date or Estimated Date of Adoption: **12/12/2012**  
(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>4</sup> (if applicable)	List of TMDL Pollutant (s) (if any)
<b>Río Culebrinas PRWR95A</b>	<b>5</b>	<b>Yes</b>	<b>Arsenic; copper; cyanide; lead; pesticides; surfactants; total coliform; and turbidity</b>	<b>Fecal Coliform Total Coliform</b>
<b>Río Caño PRWR95B Río Culebrinas tributary</b>	<b>--</b>	<b>--</b>	<b>Cyanide; fecal coliform; and turbidity</b>	<b>Fecal Coliform</b>
<b>Río Cañas PRWR95B Río Caño tributary</b>	<b>10</b>	<b>Yes</b>	<b>Cyanide; fecal coliform; and turbidity</b>	<b>Fecal Coliform</b>
<b>Quebrada el Gallinero PRWR95B Río Caño tributary</b>	<b>26</b>	<b>Yes</b>	<b>Cyanide; fecal coliform; and turbidity</b>	<b>Fecal Coliform</b>
<b>Río Güayabo Estuary PRWE94A</b>	<b>--</b>	<b>--</b>	<b>Dissolved oxygen; and fecal coliform</b>	<b>Fecal Coliform</b>
<b>Río Güayabo PRWR94A</b>	<b>23</b>	<b>Yes</b>	<b>Dissolved oxygen; fecal coliform; phosphorus; and surfactants</b>	<b>Fecal Coliform</b>
<b>Río Culebra PRWR94A Río Güayabo tributary</b>	<b>2</b>	<b>Yes</b>	<b>Dissolved oxygen; fecal coliform; phosphorus; and surfactants</b>	<b>Fecal Coliform</b>
<b>Channel to Playa Espinal</b>	<b>3</b>	<b>Yes</b>	<b>N/A</b>	<b>N/A</b>

<sup>4</sup> United States Environmental Protection Agency; 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]

**2.8 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
<b>MCM 1 – Public Education and Outreach</b>				
<b>Conduct SWMP implementation Quarterly Meeting</b>	<b>Yes</b>	<b>No</b>	<b>Municipal SWMP implementation staff</b>	<b>N/A</b>
<b>Develop Municipal Ordinances Fact Sheets</b>	<b>No</b>	<b>Yes</b>	<b>Business owners Contractor Developers General public</b>  <b>The fact sheet was not developed.</b>	<b>No</b>
<b>Post Municipal Ordinances Fact Sheets in Municipal Facilities</b>	<b>No</b>	<b>Yes</b>	<b>Business owners Contractor Developers General public</b>  <b>The fact sheet was not developed.</b>	<b>No</b>
<b>Distribute educative material and information on general storm water pollution prevention during the activity “Todos Juntos por un Aguada Limpio”</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</b>	<b>No</b>
<b>Develop a training/ workshop for Municipal Employees about activities specific BMPs</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal employees Municipal directors</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>Conduct training/ workshop for Municipal Employees about activities specific BMPs</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal employees Municipal directors</b>	<b>No</b>
<b>Post stormwater pollution prevention BMPs posters in municipal facilities</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal employees Municipal directors</b>	<b>No</b>
<b>Conduct the Environmental Clubs initiation activity in schools</b>	<b>Yes</b>	<b>No</b>	<b>School students School teachers</b>	<b>N/A</b>
<b>Conduct two trainings per school for each Environmental Science Clubs</b>	<b>Yes</b>	<b>No</b>	<b>School students School teachers</b>	<b>N/A</b>
<b>Conduct Training/ workshop to business owners about storm water pollution impacts and prevention by implementing adequate BMPs</b>	<b>Yes</b>	<b>Yes</b>	<b>Business owners</b>	<b>No</b>
<b>Conduct Training/ workshop to farmers and home owners about storm water pollution impacts and prevention by implementing adequate BMPs</b>	<b>Yes</b>	<b>Yes</b>	<b>Farmers Home owners General public</b>	<b>No</b>
<b>Conduct the annual “Expo Ambiente” environmental fair</b>	<b>Yes</b>	<b>No</b>	<b>School students and teachers Municipal employees Business owners General public</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>MCM 2 – Public Involvement and Participation</b>				
<b>Update the Municipal Official Webpage Environmental Compliance Section</b>	<b>No</b>	<b>Yes</b>	<b>General public The Environmental Compliance Section has not been developed.</b>	<b>No</b>
<b>Incorporate the MS4 SWMP implementation status</b>	<b>No</b>	<b>Yes</b>	<b>General public The Environmental Compliance Section has not been developed.</b>	<b>No</b>
<b>Implement the Storm Drain Labeling Program</b>	<b>Yes</b>	<b>No</b>	<b>General public</b>	<b>N/A</b>
<b>Coordinate the Volunteers Participation in “Todos Juntos por un Aguada Limpio”</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</b>	<b>This will be part of the Annual Clean-up Program.</b>
<b>Coordinate the Volunteers Participation in the Annual Clean-up Program</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</b>	<b>N/A</b>
<b>Participate in the World Water Monitoring Day</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal employees General public</b>	<b>Will be included as part of the Watershed Monitoring Program Specific Activities</b>
<b>Coordinate the Volunteers Participation in the Watershed Monitoring Program Specific Activities</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal employees General public</b>	<b>No</b>
<b>Coordinate the Volunteers Participation in the Annual Environmental Fair “Expo Ambiente”</b>	<b>Yes</b>	<b>No</b>	<b>School students and teachers Municipal employees Business owners General public</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>MCM 3 – Illicit Discharge Detection and Elimination</b>				
<b>Develop the IDDE Municipal Ordinance Fact Sheets</b>	<b>No</b>	<b>Yes</b>	<b>Business owners General public</b>  <b>The fact sheet has not been developed.</b>	<b>No</b>
<b>Municipal IDDE Ordinance Fact Sheet Posted in 100% of Municipal Facilities</b>	<b>No</b>	<b>Yes</b>	<b>Business owners General public</b>  <b>The fact sheet has not been developed.</b>	<b>No</b>
<b>Develop the Ordinance No. 32, Series 2012-2013 Enforcement Response Plan (ERP)</b>	<b>No</b>	<b>No</b>	<b>Business owners General public</b>  <b>The ERP was not developed.</b>	<b>N/A</b>
<b>Develop and Conduct Training to Municipal staff on illicit discharges investigation and elimination procedures in accordance with Ordinance No. 32, Series 2012-2013</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal employees Municipal directors</b>	<b>No</b>
<b>Municipal Website Environmental Section updated with an interactive tool to report illicit discharges</b>	<b>No</b>	<b>Yes</b>	<b>General public</b>  <b>The Environmental Compliance Section was not developed.</b>	<b>No</b>
<b>Conduct training to business owners, farmers, municipal employees, community members</b>	<b>Yes</b>	<b>Yes</b>	<b>Business owners Farmers Municipal employees</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>and students on hazards associated with illegal discharges and improper waste disposal</b>			<b>Community members Students</b>	
<b>Investigate 100% of illicit discharges or connections identified or reported</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</b>	<b>No</b>
<b>Elimination of illicit discharges or connections previously investigated</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</b>	<b>No</b>
<b>Conduct training to business owners, farmers, municipal employees and community members on proper maintenance of septic system and how to detect and eliminate sanitary sewer overflows or failing septic system</b>	<b>Yes</b>	<b>Yes</b>	<b>Business owners Farmers Municipal employees Community members</b>	<b>No</b>
<b>Conduct community oriented IDDE educative activities</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</b>	<b>No</b>
<b>Implement the Storm Drain Labeling Program</b>	<b>Yes</b>	<b>No</b>	<b>General public</b>	<b>N/A</b>
<b>Provide Septic Tanks emptying services to the community</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</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>Publish article about the Ordinance 33, Series 2012-2013 in the Municipality Webpage</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals General public</b>  <b>The Environmental Compliance Section was not developed.</b>	<b>No</b>
<b>Develop the Municipal Construction Ordinance Fact Sheet</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals General public</b>  <b>The fact sheet was not developed.</b>	<b>No</b>
<b>Review and Update of the CES Plan Review SOP</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals</b>  <b>The original SOP was developed in October 2010, but no update was made.</b>	<b>No</b>
<b>Review and Update of the Construction Project Inspection SOP</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals</b>  <b>The original SOP was developed in October 2010, but no update was made.</b>	<b>No</b>
<b>Develop Ordinance 33, Series 2012-2013 Enforcement Response Plan (ERP)</b>	<b>No</b>	<b>No</b>	<b>Construction related professionals</b>  <b>The ERP was not developed.</b>	<b>N/A</b>
<b>Develop a public and private construction sites prioritization inventory and update it every year</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal SWMP implementation staff</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>Conduct Training to CES Plan review staff</b>	<b>No</b>	<b>Yes</b>	<b>Municipal SWMP implementation staff Municipal CES plan review staff</b>	<b>No</b>
<b>Conduct Training to field inspection staff</b>	<b>No</b>	<b>Yes</b>	<b>The SOPs were developed in October 2010, but needs to be updated before training.</b>	<b>No</b>
<b>Develop and Conduct Training to Construction site operators on municipal procedures for CES Plan review, field inspections and Ordinance implementation.</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals  The SOPs were developed in October 2010, but need to be updated before training.</b>	<b>No</b>
<b>Conduct CES Plan review for Public and Private Projects</b>	<b>Yes</b>	<b>Yes</b>	<b>Construction related professionals</b>	<b>No</b>
<b>Construction site inspections performed under Ordinance at each private and public project</b>	<b>Yes</b>	<b>Yes</b>	<b>Construction related professionals</b>	<b>No</b>
<b>Enforcement actions conducted as needed by implementing ERP guides under Ordinance</b>	<b>No</b>	<b>No</b>	<b>Construction related professionals  The ERP was not developed</b>	<b>N/A</b>
<b>Distribution of Educational Material to Construction Site Operators.</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals No educational material have been distributed.</b>	<b>No</b>
<b>Development of a Construction interactive section on municipal website</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals General public The Environmental Compliance Section has not been developed.</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 5 – Post-Construction Storm Water Management in New Development and Redevelopment</b>				
<b>Publish article and educative information about the Ordinance 34, Series 2012-2013 in Municipal Webpage</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals General public</b>	<b>No</b>
<b>Review and Update of BMPs O&amp;M Plan Review SOP</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals</b>	<b>No</b>
<b>Review and Update of Post-construction Measure O&amp;M Plan Inspection SOP</b>	<b>No</b>	<b>Yes</b>	<b>The original SOPs were developed in October 2010, but no update was made.</b>	<b>No</b>
<b>Develop Post-Construction Ordinance ERP</b>	<b>No</b>	<b>No</b>	<b>Construction related professionals</b>	<b>N/A</b>
<b>Conduct training for O&amp;M Plan Review and BMPs Inspection Staff</b>	<b>No</b>	<b>Yes</b>	<b>The ERP was not developed.</b>	<b>No</b>
<b>Conduct training of staff for the implementation of the ERP</b>	<b>No</b>	<b>No</b>	<b>Municipal construction program implementation staff.</b>	<b>No</b>
<b>Conduct training for Operators on the BMPs of Post-construction, review and inspection procedures and the dispositions of the Ordinance 34</b>	<b>No</b>	<b>No</b>	<b>Municipal construction program implementation staff.</b>	<b>N/A</b>
<b>Conduct training for Operators on the BMPs of Post-construction, review and inspection procedures and the dispositions of the Ordinance 34</b>	<b>No</b>	<b>Yes</b>	<b>The ERP was not developed.</b>	<b>No</b>
<b>Conduct training for Operators on the BMPs of Post-construction, review and inspection procedures and the dispositions of the Ordinance 34</b>	<b>No</b>	<b>Yes</b>	<b>Municipal construction program implementation staff.</b>	<b>No</b>
<b>Conduct training for Operators on the BMPs of Post-construction, review and inspection procedures and the dispositions of the Ordinance 34</b>	<b>No</b>	<b>Yes</b>	<b>The Municipality did not have the personnel to implement this activity.</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>Distribution of Educational Material to Operators when visiting the Municipal Planning Office</b>	<b>No</b>	<b>Yes</b>	<b>Construction related professionals</b>  <b>Educational Material was not distributed.</b>	<b>No</b>
<b>Conduct Post-Construction BMPs Plan Review</b>	<b>No</b>	<b>Yes</b>	<b>Facilities/developments operators</b>  <b>The Municipality did not have the personnel to implement this activity.</b>	<b>No</b>
<b>Conduct field inspections for BMPs prior occupancy</b>	<b>No</b>	<b>No</b>	<b>Construction related professionals</b>  <b>The Municipality did not have the personnel to implement this activity.</b>	<b>N/A</b>
<b>Inspect Municipal Facilities and prioritize by permeability properties of the surroundings for the design of LID</b>	<b>No</b>	<b>No</b>	<b>Municipal employees</b>	<b>N/A</b>
<b>Design of LID at Municipal Facilities</b>	<b>No</b>	<b>No</b>	<b>Municipal employees</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>MCM 6 – Pollution Prevention and Good Housekeeping for Municipal Operations</b>				
<b>Review Facility Prioritization</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal facilities employees and directors</b>	<b>No</b>
<b>Review Activities for Discharge Potential</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal facilities employees and directors</b>	<b>No</b>
<b>Conduct inspections in high priority municipal facilities</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal facilities employees and directors</b>	<b>No</b>
<b>Training for municipal staff in activity or facility- specific BMPs</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal facilities employees and directors</b>	<b>No</b>
<b>Distribute educational material to municipal employees</b>	<b>Yes</b>	<b>Yes</b>	<b>Municipal facilities employees and directors</b>	<b>No</b>
<b>Develop recycling plans every 18<sup>th</sup> months</b>	<b>Yes</b>	<b>No</b>	<b>Municipal facilities employees and directors</b>	<b>N/A</b>
<b>Clean Debris from MS4 Sweep Streets</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</b>	<b>No</b>
<b>Sweep streets</b>	<b>Yes</b>	<b>Yes</b>	<b>General public</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>Develop Municipal Ordinances Fact Sheets</b>	<b>Illicit discharges and connections Construction erosion and sediments control Post-construction BMPs</b>	<b>The Municipality will develop Municipal MS4 Ordinances Fact Sheets and will have them available in the Municipal offices of Planning, Secretariat, Public Works, Sanitation and Municipal Police.</b>	<b>Developed Municipal MS4 Ordinance Fact Sheets</b>
<b>Post Municipal Ordinances Fact Sheets in Municipal Facilities</b>	<b>Illicit discharges and connections Construction erosion and sediments control Post-construction BMPs</b>		<b>Municipal Ordinance Fact Sheets posted in 100% of Municipal Main Facilities</b>
<b>Distribute educative material and information on general storm water pollution prevention during the activity “Todos Juntos por un Aguada Limpio”</b>	<b>General storm water pollution prevention</b>	<b>The Municipality will distribute storm water pollution prevention educational material to general public during municipal activities to develop awareness on stormwater pollution prevention best practices.</b>	<b>Number of educative material on general storm water pollution prevention distributed during the activity “Todos Juntos por un Aguada Limpio”</b>
<b>Conduct training/workshop for Municipal Employees about activities specific BMPs</b>	<b>Spills control and prevention Hazardous and non-hazardous material management</b>	<b>The municipal staff will receive activity specific BMPs training on an annual frequency to identify and manage</b>	<b>Conducting training/workshop for the Public Works and Sanitation Department Staff about activities specific BMPs Number of municipal employees</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>MS4 system cleaning &amp; maintenance Street sweeping Waste management</b>	<b>adequately storm water pollution issues in their facilities.</b>	<b>from Public Works and Sanitation Departments trained in Activity Specific BMPs</b>
<b>Post stormwater pollution prevention BMPs posters in municipal facilities</b>	<b>Spills control and prevention Hazardous and non-hazardous material management MS4 system cleaning &amp; maintenance Street sweeping Waste management</b>	<b>The Municipality will post posters in municipal facilities to educate municipal employees in activity specific BMPs.</b>	<b>Number of posters posted</b>
<b>Conduct Training/ workshop to business owners, farmers and home owners about storm water pollution impacts and prevention by implementing adequate BMPs</b>	<b>Storm water pollution impacts and prevention</b>	<b>Target educational activities addressing the pollutants of concern and potential pollution sources will be coordinated and implemented every year including the participation of community members, business owners, farmers, municipal staff, and invited agencies.</b>	<b>Number of business owners, farmers and home owners trained in storm water pollution impact and prevention by implementing adequate BMPs.</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>Update the Municipal Official Webpage Environmental Compliance Section and incorporate the MS4 SWMP implementation status.</b>	<b>The Municipality will publish an electronic copy of the SWMP and information regarding the MS4 SWMP implementation in the Webpage Environmental Compliance Section. The Environmental Section will provide contact information for receipt of comments or questions. Will also include a section in which residents can post comments and report illicit discharges or other storm water related issues.</b>	<b>Quarterly publishing of storm water related information. The availability of SWMP documents and annual reports to the public on the municipality Website.</b>
<b>Coordinate the Volunteers Participation in the Annual Clean-up Program</b>	<b>Every year, before the Puerto Rico hurricane season, the Emergency Management Department join efforts with the Department of Environmental and Natural Resources to clean rivers and streams. Volunteers are encouraged to participate in the activity.</b>	<b>Number of volunteers participating storm water related activities. Number of volunteers participating in clean-up activities.</b>
<b>Coordinate the Volunteers Participation in the Watershed Monitoring Program Specific Activities</b>	<b>The Municipality developed a Watershed Monitoring Program with a Standard Operating Procedure (SOP) on how to take and analyze samples. The monitoring activities will include special educational activities with volunteers.</b>	<b>Number of volunteers participating in storm water related activities. Number of sampling sites evaluated. Number of activities coordinated.</b>

**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>Develop the IDDE Municipal Ordinance Fact Sheets</b>	<b>The Municipality will Develop and Distribute an IDDE municipal ordinance fact sheet</b>	<b>Development of IDDE Municipal Ordinance Fact Sheets</b>
<b>Municipal IDDE Ordinance Fact Sheet Posted in Municipal Facilities</b>	<b>The Municipality will develop Municipal MS4 Ordinances Fact Sheets and will have them available in the Municipal offices of Planning, Secretariat, Public Works, Sanitation and Municipal Police.</b>	<b>Ordinance Fact Sheets Posted in Municipal Facilities</b>
<b>Conduct Training to Municipal staff on illicit discharges investigation and elimination procedures in accordance with Ordinance No. 32, Series 2012-2013</b>	<b>Annual IDDE training for Emergency Response Management, Municipal Police, and Public Works staff specifically on the identification of illicit discharges and spill response will be conducted every year.</b>	<b>Number of municipal staff trained on hazards associated with illegal discharges and improper waste disposal, detection of illegal discharges, investigation and elimination procedures in accordance with Ordinance No. 32, Series 2012-2013</b>
<b>Municipal Website Environmental Section updated with an interactive tool to report illicit discharges</b>	<b>The Municipality will post illicit discharges educational information in the municipal website Environmental Section. The information will be based on the main pollutants of concern and will include a section in which community members may ask questions regarding illicit connections; and report illicit discharges, and request services.</b>	<b>Update the Environmental Section of the Municipal Website to develop an interactive tool to report Illicit Discharges.</b>

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>Conduct training to business owners, farmers, municipal employees, community members and students on hazards associated with illegal discharges and improper waste disposal</b>	<b>The Municipality will conduct training activities to provide educational information regarding hazards associated with illegal discharges, improper waste disposal and water quality to municipal staff, students, farmers, business owners, and general community members.</b>	<b>Number of business owners, farmers, municipal employees, community members, and students trained on hazards associated with illegal discharges and improper waste disposal.</b>
<b>Investigate 100% of illicit discharges or connections identified or reported</b>	<b>The Municipality will investigate all reported illicit discharges or connections and will identify and locate the origin of non-stormwater discharges to the storm water sewer system in order to establish corrective actions for disposal and elimination of the illicit discharges.</b>	<b>% of identified illicit discharges or connections investigated.</b>
<b>Elimination of illicit discharges or connections previously investigated</b>		<b>% of investigated illicit discharges or illicit connections eliminated</b>
<b>Conduct training to business owners, farmers, municipal employees and community members on proper maintenance of septic system and how to detect and eliminate sanitary sewer overflows or failing septic system.</b>	<b>The Municipality will conduct educational activities to target audiences served by aging septic tanks. The Municipality will provide education on adequate design, construction, operation, and maintenance of the septic tanks.</b>	<b>Number of municipal staff, homeowners, and business owners educated about proper maintenance of septic system and how to detect and eliminate sanitary sewer overflows or failing septic system.</b>
<b>Conduct community oriented IDDE educative activities</b>	<b>The Municipality will conduct educational activities to communities to educate them in hazards associated with illegal discharges and improper waste disposal.</b>	<b>Number of community activities developed to provide information on hazards associated with illegal discharges and improper waste disposal.</b>

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>Provide Septic Tanks emptying services to the community</b>	<b>The Municipality provide to the general community of Aguada the service of septic tanks emptying. This activity will continue to reduce the incidence of septic tanks overflows.</b>	<b>Number of Septic Tanks emptying services made.</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>Publish article about the Ordinance 33, Series 2012-2013 in the Municipality Webpage</b>	<b>The Municipality will incorporate educational material and will publish articles on Construction Sites' Storm Water Control on the municipal website annually.</b>	<b>Article published in Municipal Website about the Ordinance 33, Series 2012-2013</b>
<b>Develop the Municipal Construction Ordinance Fact Sheet</b>	<b>The Municipality will develop Municipal MS4 Ordinances Fact Sheets and will have them available in the Municipal offices of Planning, Secretariat, Public Works, Sanitation and Municipal Police.</b>	<b>Development of the Construction Municipal Ordinance Fact Sheet</b>
<b>Review and Update of the CES Plan Review SOP</b>	<b>The Municipality will review and update the SOPs developed in 2010 to include the requirements of the MS4 NPDES General Permit 2016.</b>	<b>Review and Update of CES Plan Review SOP</b>
<b>Review and Update of the</b>	<b>The Municipality will review and update the</b>	<b>Review and Update of Construction Project</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>Construction Project Inspection SOP</b>	<b>SOPs developed in 2010 to include the requirements of the MS4 NPDES General Permit 2016.</b>	<b>Inspection SOP</b>
<b>Develop a public and private construction sites prioritization inventory and update it every year</b>	<b>The Municipality will develop an inventory of construction sites and will be prioritized based on the potential to pollute the MS4, compliance history of the operator and other factors to be determined.</b>	<b>Inventory and yearly update of the public and private construction sites for prioritization.</b>
<b>Conduct Training to CES Plan review staff</b>	<b>Plan review and inspection staff will be trained in the requirements and enforcement of the ordinance, and the appropriate use of the SOPs and guides to conduct these activities. The trainings will be conducted annually to ensure staff is kept up to date on BMPs and procedures. The trainings may be held “in-house” or staff may attend trainings provided by outside sources such as PREQB, CIAPR, USEPA, or a Private Consulting Firm.</b>	<b>Number of CES Plan review staff trained each year</b>
<b>Conduct Training to field inspection staff</b>		<b>Number of field inspection staff trained each year</b>
<b>Develop and Conduct Training to Construction site operators on municipal procedures for CES Plan review and field inspections.</b>	<b>The Operators will be trained about storm water Municipal Ordinance requirements, CES Plan Review and construction sites inspections. Brochures will be available at Municipality offices, and information will be provided through the Environmental Section of the Website and during one-on-one assistance provided during construction project inspections.</b>	<b>Number of construction site operators trained in municipal procedures for CES Plan review and field inspections.</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>Conduct CES Plan review for Public and Private Projects</b>	<b>The Municipality has no legal standing to evaluate CES Plans approved by EQB. However, under the Construction Ordinance, the Municipality will verify construction permits granted by OGPe, including permit applications and approved CES Plans. These documents will be requested and shall be presented to the Planning Office. After verifying the documents, the Planning Office Director will issue an authorization to the construction operator authorizing the payment of the construction taxes to the Municipal Finances Office.</b>	<b>Number of CES Plan reviewed under Ordinance 33, Series 2012-2013.</b>
<b>Construction site inspections performed under Ordinance at each private and public project.</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.</b>	<b>% of construction site inspections performed under Ordinance 33, Series 2012-2013. Number of Enforcement actions under Ordinance 33, Series 2012-2013.</b>
<b>Distribution of Educational Material to Construction Site Operators.</b>	<b>Brochures will be available at Municipality offices, and information will be provided through the Environmental Section of the Website and during one-on-one assistance provided during construction project inspections.</b>	<b>Number of educational material distributed</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>Development of a Construction interactive section on municipal website</b>	<b>An interactive section to report erosion and sediment control violations at construction site will be developed. The Municipality will inform the general public of available options to report violations of regulations of erosion and sediment control and of other wastes/pollutants related to construction projects through storm water related events as well as through the Municipality Website.</b>	<b>Development of construction interactive section on municipal website to report erosion and sediment control violation.</b>

### 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.)
<b>Publish article and educative information about the Ordinance 34, Series 2012-2013 in Municipal Webpage</b>	<b>The Municipality will incorporate educational material and will publish articles on Post-construction Storm Water Control on the municipal website annually.</b>	<b>Ordinance 34, Series 2012-2013, educative information posted in the Municipal Webpage</b>
<b>Review and Update of BMPs O&amp;M Plan Review SOP</b>	<b>The Municipality will review and update the SOPs developed in 2010 to include the requirements of the MS4 NPDES General Permit 2016.</b>	<b>Review and Update of BMPs O&amp;M Plan Review SOP</b>
<b>Review and Update of Post-</b>	<b>The Municipality will review and update the</b>	<b>Review and Update of Post-Construction</b>

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.)
<b>construction Measure O&amp;M Plan Inspection SOP</b>	<b>SOPs developed in 2010 to include the requirements of the MS4 NPDES General Permit 2016.</b>	<b>Measure O&amp;M Plan Inspection SOP</b>
<b>Conduct training for O&amp;M Plan Review and BMPs Inspection Staff</b>	<b>Plan review and inspection staff will be trained in the application and requirements of the Ordinance and the appropriate use of SOPs. The trainings will be conducted annually to ensure staff is kept up to date on BMPs and procedures. The trainings may be held “in-house” or staff may attend trainings provided by environmental compliance agencies such as PREQB or USEPA.</b>	<b>Number of O&amp;M Plan Review Staff trained Number of BMPs O&amp;M Inspection Staff trained</b>
<b>Conduct training for Operators on the BMPs of Post-construction, review and inspection procedures and the dispositions of the Ordinance 34</b>	<b>The Operators will be educated about stormwater requirements through BMPs trainings and workshops, brochures available at Municipality offices, information in the Environmental section of the Website, articles published and during one- on-one assistance provided during field visits.</b>	<b>Number of Operators trained on the BMPs of Post-construction, review and inspection procedures and the dispositions of the Ordinance 34</b>
<b>Distribution of Educational Material to Operators when visiting the Municipal Planning Office</b>	<b>The Municipality will develop Municipal MS4 Ordinances Fact Sheets and will have them available in the Planning Office.</b>	<b>% of operators receiving educational material when visiting the Municipal Planning Office % of operators per year implementing the strategies for structural and non-structural BMPs</b>
<b>Conduct Post-Construction</b>	<b>The municipal technical personnel will</b>	<b>% of Post-Construction BMPs Plan reviewed</b>

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.)
<b>BMPs Plan Review</b>	<b>perform plan reviews and will conduct inspections as deemed necessary in comply with the Ordinance 34, Series 2012-2013</b>	

**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 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.)
<b>Review Facility Prioritization</b>	<b>The Municipality will review the facilities with pollution potential for a revised prioritization and will incorporate any facility that was not included originally to select and implement the appropriate BMPs to address this potential. In addition, the Municipality will conduct yearly inspections of the facilities with high pollution potential by priority. An on-site inspection will be conducted at each facility and the findings will be used during the prioritization process. Factors impacting priority rating will include materials managed or stored, activities conducted, proximity to a water body, and overall condition of the facility during the facility inventory inspection.</b>	<b>List of Municipal facilities and prioritization</b>
<b>Review Activities for Discharge Potential</b>		<b>List of activities with discharge potential and the facility</b>
<b>Conduct inspections in high priority municipal facilities</b>		<b>% of high priority municipal facilities inspected</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>Training for municipal staff in activity or facility- specific BMPs</b>	<b>The Municipality will conduct training to municipal facilities employees in specific good housekeeping and pollution prevention practices in their work areas. The trainings will include but will not be limited to Spill Prevention and Response Plan; Solid Waste Management; Recycling Program; and Proper Good Housekeeping BMPs that should be employed, by fleet</b>	<b>% of field staff trained in activity or facility-specific BMPs % of spills on site reported and managed</b>
<b>Distribute educational material to municipal employees</b>	<b>maintenance staff, during vehicle maintenance and washing. In addition, spill prevention and response training will be provided to all field staff. Educational material about the themes of the trainings will be distributed to municipal employees.</b>	<b>% of municipal employees receives educative material</b>
<b>Clean Debris from MS4</b>	<b>The Municipality performs basic maintenance activities in order to provide the appropriate level of service to its residents. Several of these activities provide added storm water benefits as well. These activities include cleaning of storm drain inlets and pipes, and street sweeping. These activities will continue during this permit term.</b>	<b>Amount of storm sewer system cleaning activities</b>
<b>Sweep streets</b>		<b>Number of streets regularly swept weekly</b>

**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:

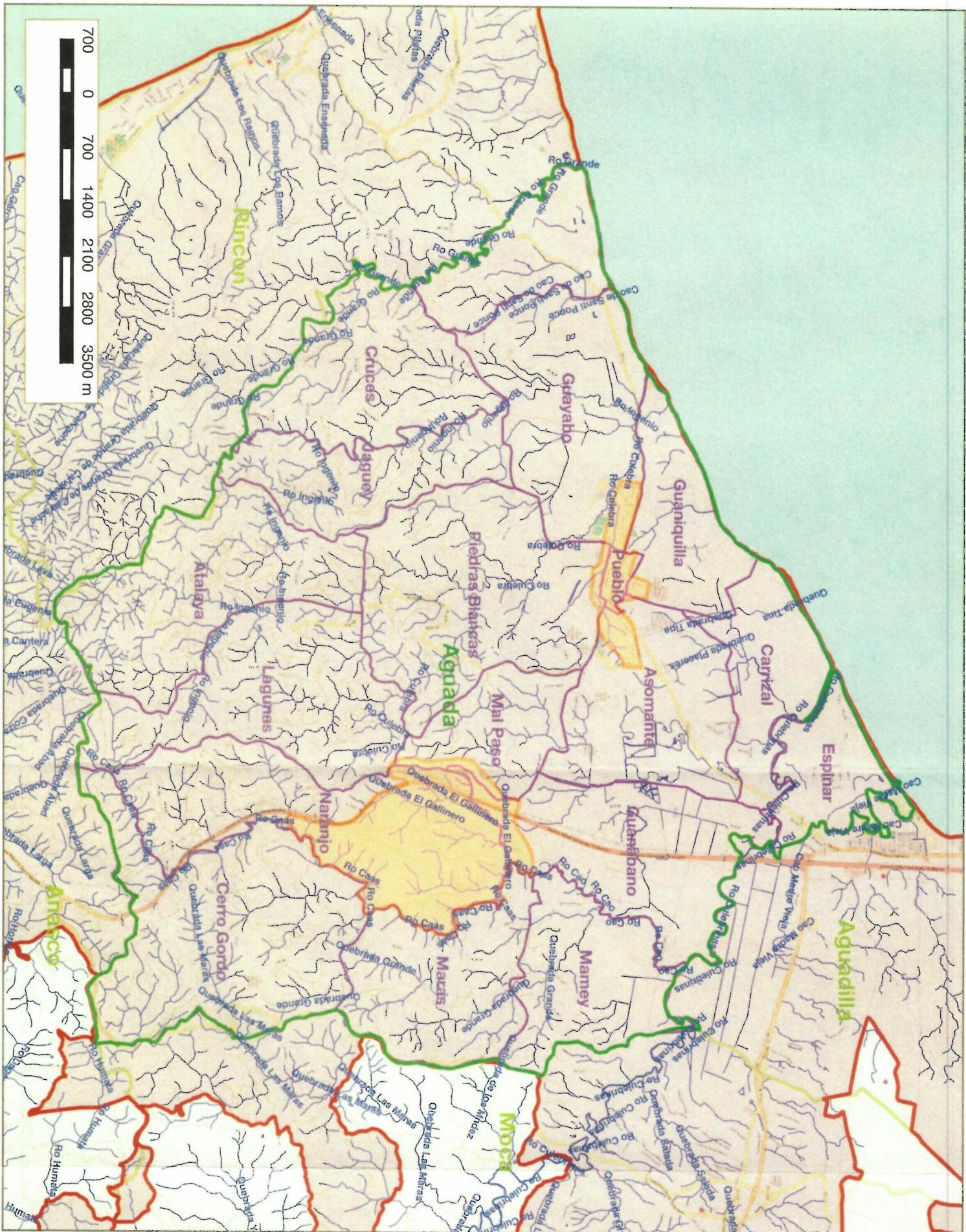
**Hon. Jessie Cortés Ramos**Title: **Mayor**Date: **September** 23, 2016

**Appendix A  
Maps**

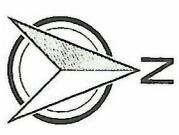
# Municipality of Aguada

**NOI - MS4's NPDES  
General Permit  
September 2016**

## Location/Boundaries Map



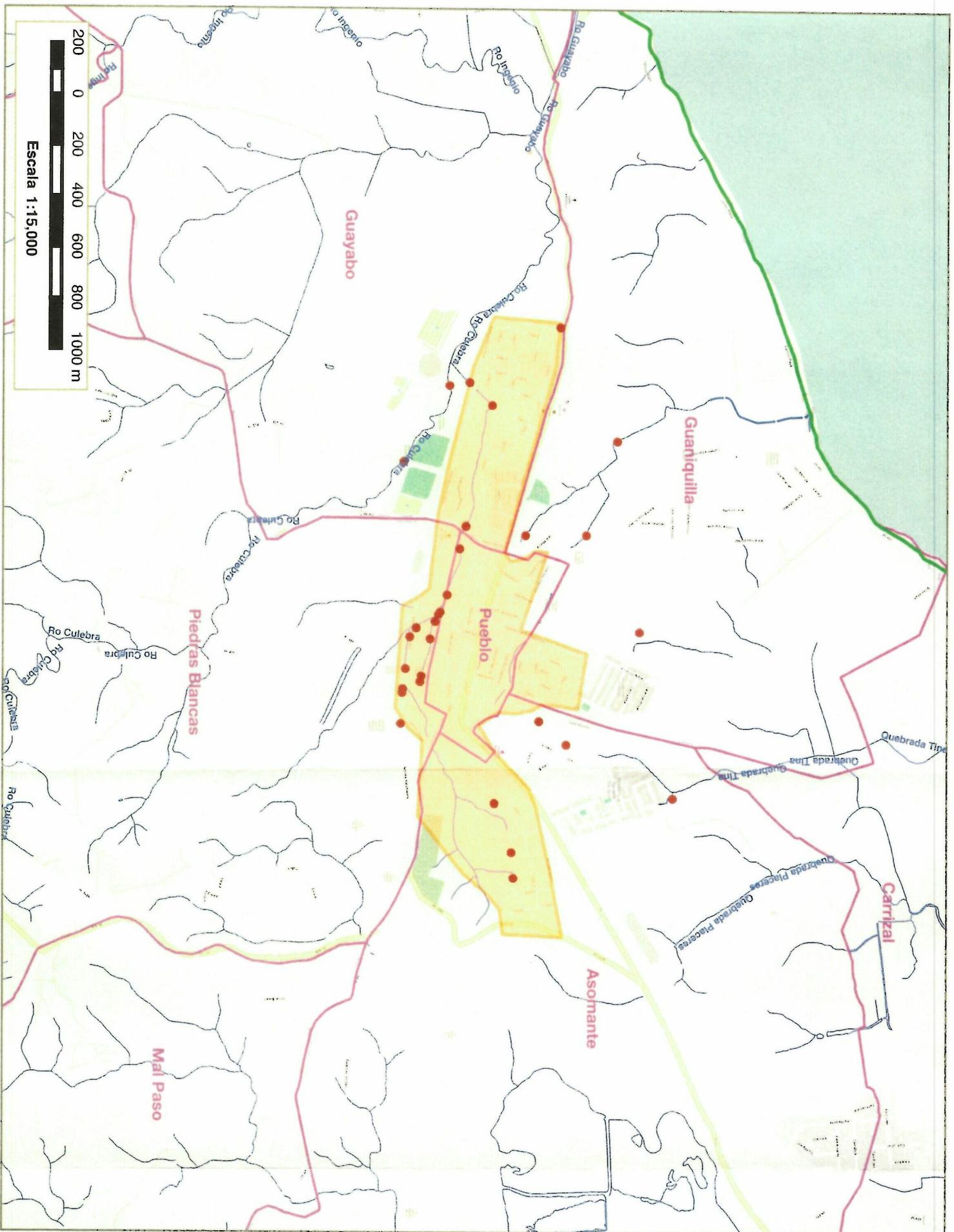
- Legend**
- Aguada's boundary
  - Wards
  - Urbanized Area
  - Urban areas
  - Rivers and Creeks



**Scale: 1:50,000**

Source:  
Municipality of Aguada  
US Census Bureau, 2010 Census - Urbanized  
Area Reference Map: Aguadilla-Isabela-San  
Sabañal, PR

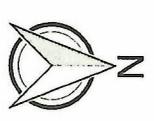




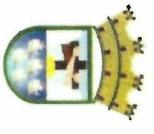
**Municipality of Aguada**

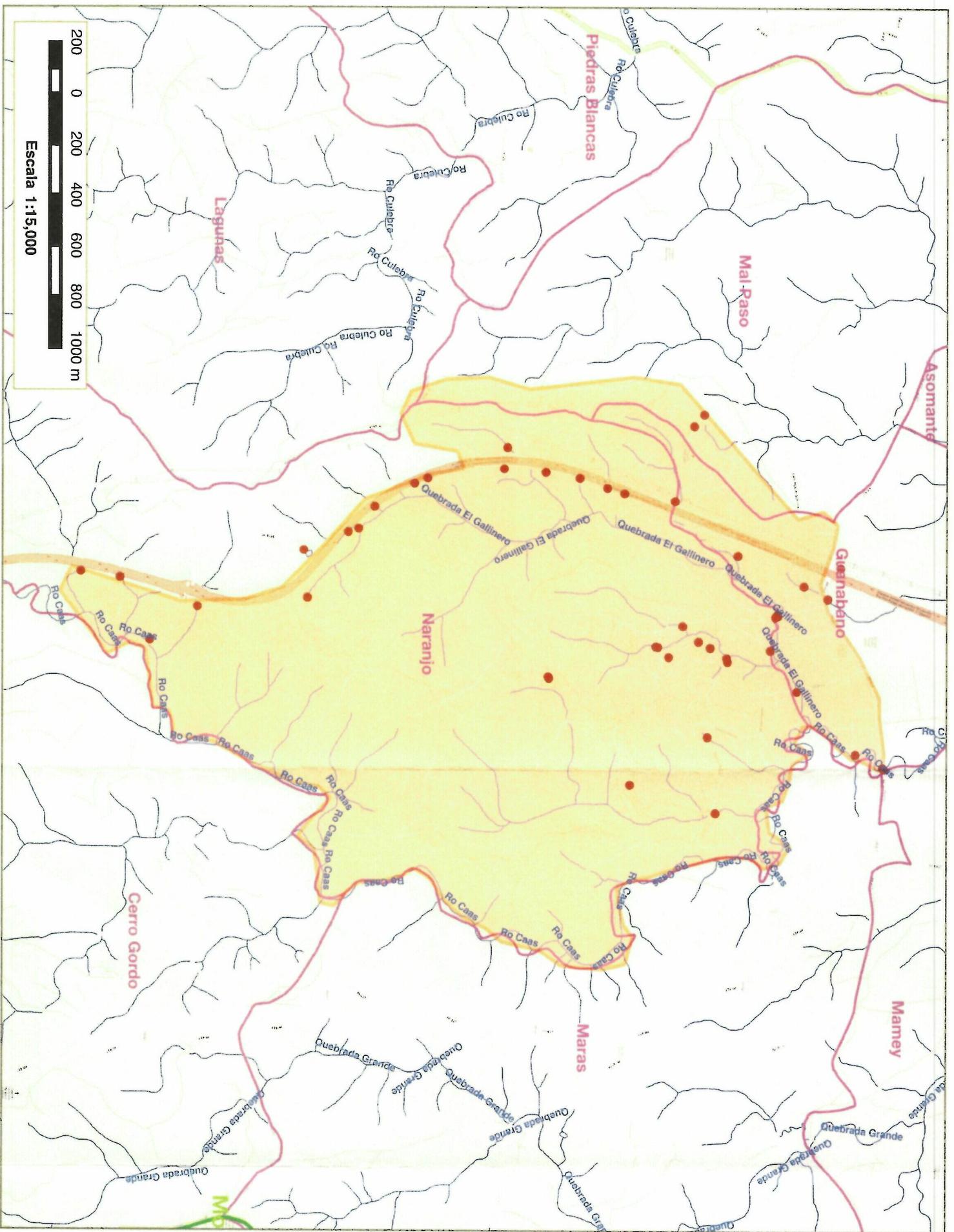
**Outfalls in Urban Area of Aguada**

- Legend**
- Aguada's Boundary
  - Wards
  - Urban Area
  - Outfalls
  - Hydrography



Fuentes:  
 Municipio de Aguada  
 EPA, CRIM, OGP, US Census Bureau  
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**Municipality of Aguada**

**Outfalls in Urban Area of Luyando**

- Legend**
- Aguada's Boundary
  - Wards
  - Urban Area
  - Outfalls
  - Hydrography



Fuentes:  
 Municipio de Aguada  
 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

**AUG 07 2016**

In Reply Refer To:  
FWS/R4/CESFO/72-003-GEN

Mrs. Keila Pacheco  
Consultant  
ACE Environmental, Inc.  
Po Box 19895  
San Juan, Puerto Rico 00910-9895

Re: Aguada NPDES MS4-2014 Permit

Dear Mrs. Pacheco:

We have reviewed your request for information regarding endangered and threatened species and their habitats for the above referenced action. Our comments are provided as technical assistance under the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 *et seq.*), and in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*).

The Municipality of Aguada, 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 Aguada MS4 collects storm water runoff and discharges directly to the Atlantic Ocean.

Based on the information provided and the nature of the project, we believe that the project is not likely to adversely affect federally listed threatened or endangered species or their designated critical habitat(s) under our jurisdiction. It is the Service's mission to work with others to conserve, protect and enhance fish, wildlife, and plants and their habitats for the continuing benefit of our people. Please do not hesitate to contact Angel Colón-Santiago at 787-851-7297, extension 214, should you have any questions concerning our comments.

Sincerely yours,

  
Edwin E. Muñiz  
Field Supervisor



Estado Libre Asociado de Puerto Rico  
**Gobierno Municipal de Aguada**  
Oficina del Alcalde



**Certification**

The Municipality of Aguada 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 Aguada 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).

Jessie C. [Signature]  
Signature

21 - September - 2014  
Date

\_\_\_\_\_  
Name

\_\_\_\_\_  
Position