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NOTICE OF INTENT

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II, REGULATED
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4's)**

INDIVIDUAL PERMIT

**MUNICIPALITY OF AIBONITO
EPA REGION 2 PUERTO RICO**

PREPARED BY

**PLAN. ANGÉLICA M. CAMACHO, MP, PPL
PLANNING AND ZONING OFFICE DIRECTOR
JULY 2016**



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Notice of Intent (NOI) for coverage under the Small Municipal Separate
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Part A: General Information

1. Name of Municipality or Organization: Municipality de Aibonito
2. Type: ☐ Federal ☐ State ☒ Municipality ☐ Other:
3. Existing Permittee: ☒ Yes ☐ No If Yes, provide EPA NPDES Permit Number: PRR040041
4. Location Address:
 - a. Street: Calle Degetau #56 Bo. Pueblo
 - b. City: Aibonito State: PR Zip Code: 00705
5. Mailing Address:
 - a. Street: Po Box 2004
 - c. City: Aibonito State: PR Zip Code: 00705
6. Telephone Number: 787-735-8181 Fax:
7. E-mail: aibonitoplanificacion@gmail.com
8. Standard Industrial Classification (SIC) Code (see instructions for common codes): 9199
9. Latitude: 18° 08' 24" N Longitude: 66° 16' 12" W

Part B. Primary MS4 Program Manager Contact Information

1. Name: Angélica M. Camacho González
2. Position Title: Planning and Zoning Office Director
3. Stormwater Management Program (SWMP) Location (web address or physical location): www.aibonitopr.net/manejo-de-escorretias.html
4. Mailing Address:
 - a. Street: Po Box 2004
 - d. City: Aibonito State: PR Zip Code: 00705
5. Telephone Number: 787-735-8181 EXT. 7050
6. E-mail: aibonitoplanificacion@gmail.com



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Part C. Eligibility Determination

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

Part D. Map/ Boundaries

1. MS4 / Organization Description of regulated boundaries (narrative):

The Municipality of Aibonito MS4 is currently operated by the Municipal Administration under the direction of Mayor, Hon. Willie Alicea Pérez. The Municipality is submitting a revised SWMP with best management practices (BMPs) and measurable goals chosen to meet each of the minimum control measures (MCM) as required in the Draft Small MS4 General Permit 2014 and to be implemented during the years of 2015 to 2020. The Planning and Zoning Office Director will be responsible for the MS4 SWMP implementation coordination.

The Municipality of Aibonito is located in the Cayey mountain range ("Sierra de Cayey"), at the south-central region of the island at Latitude 18° 08' 24" N and Longitude 66° 16' 12" W. It has a total territorial extension of 31.34 square miles; being 31.31 square miles of land area and 0.03 square miles of water area. Aibonito is located north of Salinas; south of Barranquitas and Comerío; east of Coamo and west of Cidra and Cayey; and reaches one of the highest elevation points in the island. It is the town with the highest elevation in Puerto Rico, located at 2,401 feet above sea level. The town's highest peaks are Verdún (760 m/2,493 ft), Piedra Degetau (730 m/2,395 ft), El Indio (620 m/2,034 ft), and Amoldadero (530 m/1,739 ft). The Annual precipitation in Aibonito is approximately 90 inches. According to the 2010 Census, Aibonito's total population is 25,900 and the average density per square mile of land area is 827.2.

The Municipality of Aibonito is part of the San Juan, PR Urbanized Area-Southwest portion of the storm water entities defined by the 2010 US Census. The geographical limits of the urban expansion for the Municipality include the Towncenter, bordered on the south with the Cordillera Central. The Municipality has a territorial extension of 31.4 miles of which 1.5 square miles are classified by EPA as urban area.

There are nine wards within the Municipality: Pueblo, Algarrobo, Asomante, Robles, Caonillas, Cuyón, Llanos, Pasto and Plata. Within the nine (9) wards there are two (2) Urban Areas, defined based on the results from the 2010 Decennial U.S. Census. The Urban Area has a population of 9,269. The first Urban Area (UA) of Aibonito includes the full delimitation of Barrio Pueblo ward (Towncenter) and areas of the wards Llanos, Caonillas and Robles. The second UA is named Pastos and is located within the delimitation of ward Pasto comprising approximately 1/6 part of the ward and a significant smaller area of Cuyón ward.



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The main rivers in the north area of the Municipality are: Aibonito, de la Plata, and Usabón, and in the south area is Rio Cuyón. Aibonito River source is in Robles ward, then it flows from the urban area, to the Llanos ward and finally flows to the Usabón River. Usabón River, pass through Asomante Ward and flows between the delimitation of Barranquitas and Aibonito up to its mouth on the Rio La Plata. The Municipality of Aibonito MS4 consists of a series of open channel culvers and catch basins, typically located within the right-of-way of municipal and state roads (PR-14), and interconnected by underground concrete or PVC pipes which normally discharge to the Aibonito River. The Municipality of Aibonito MS4 discharges mainly to the watershed of Rio La Plata, specifically to Rio Aibonito and Rio Usabón.

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 water body (s), and the "urbanized area" (UA) when applicable.

Is map attached? ☒ Yes ☐ No

Part E. MS4 Infrastructure (if covered under the 2006 general permit)

1. Estimated Percent of Outfall Map Complete? (Section 4.2.3 of 2006 general permit): 60%
 - a. If 100% of 2006 requirements are not met, enter an estimated date of completion:
June 2020
 - b. Web address where MS4 map is published: See Appendix A
and www.aibonitopr.net/manejo-de-escorretias.html

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: 27/enero/2015
2. Construction/ Erosion and Sediment Control authority adopted? ☒ Yes ☐ No
 - a) Effective Date or Estimated Date of Adoption: 27/enero/2015
3. Post-Construction Stormwater Management adopted? ☒ Yes ☐ No
 - a) Effective Date or Estimated Date of Adoption: 27/enero/2015



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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	Have any monitoring been performed to outfalls? (Yes/No)	List of Pollutant(s) causing impairment (if applicable)	List of TMDL Pollutant (s) (if any)
URBAN AREA				
Río Aibonito	45 aprox.	NO	Fecal Coliform: Confined Animal Feeding Operations, Major Municipal Point Sources, Minor Industrial Point Sources, Onsite Wastewater Systems (Septic Tanks), Urban Runoff/Storm Sewers.	TMDL needed
Quebrada Serrallés	25 aprox			
OUTSIDE URBAN AREA				
See Appendix B				

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):

ID	BMP Description	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
PUBLIC EDUCATION AND OUTREACH					
1.1	Human Resources Environmental Compliance Training Program	Yes	Yes	100% of employees received training on the CWA NPDES small MS4 General Permit – SWMP Requirements and Staff Responsibilities	None
1.2	Comprehensive stormwater pollution prevention education and outreach program (Review and Update all	Yes	Yes	All the Community Sectors	None



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	<i>educational materials)</i>				
1.3	Classroom Education on Stormwater Pollution Prevention (Make available Educational Materials)	Yes	Yes	Public and Private Schools	None
1.4	General Community Education on Residential Stormwater Pollution Prevention as well as the steps that can be taken to reduce pollutants in stormwater	Yes	Yes	All the Community Sectors	None
1.5	Municipal Employees, Contractors, and Business Owners Education on hazards associated with illegal discharges and improper disposal of waste	Yes	Yes	Municipal Employees, Contractors, and Business Owners	None
PUBLIC INVOLVEMENT AND PARTICIPATION					
2.1	Adopt a Stream Program	No	Yes	All Community Sectors. According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from June 2016 to June 2020.	None
2.2	Storm Drain Marker Program	Yes	Yes	All Community Sectors. According to the SWMP approved in May 2015, the timeframe to continue implementing this goal is yearly from June 2016 to June 2020.	Due to the economic situation, the quantity of markers that will be installing yearly will be reduced from 50 to 25.
2.3	SWMP Availability and Implementation Status Public Notice	Yes	Yes	All Community Sectors.	None
2.4	Participation in Volunteer Events	No	Yes	All Community Sectors. According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from Agosto 2015 to June 2020.	None
ILLICIT DISCHARGE DETECTION AND ELIMINATION					
3.1	Outfalls Inspection	Yes	Yes	The Ordinance was approved, the SOP review was completed and the outfalls were already identified. Due to the lack of trained personnel we were prevented to perform dry and wet weather inspections.	The time to start this goal will be modified to start in January 2017 instead of June 2016.
3.2	Problem Catchment Areas Investigation for Illicit Discharges and SSOs Identification and Elimination	No	Yes	According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from June 2016 to June 2020.	None



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3.3	Adopt a Stream	No	Yes	According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from June 2016 to June 2020.	None
3.4	Strom Drain Maker Program	No	Yes	According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from June 2016 to June 2020.	Due to the economic situation, the quantity of markers that will be installing yearly will be reduced from 50 to 25.
3.5	Illegal Dumping Detection, Identification and Elimination Program	Yes	Yes	We have an Ordinance approved since 1999 and is being implemented	None
3.6	IDDE Interactive Section in the WebPage	Yes	Yes	All the Community Sectors	None
3.7	Participation in Volunteer Events	No	Yes	According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from June 2016 to June 2020.	None
3.8	Used Oil Recycling Program	No	Yes	According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from January 2017 to June 2020.	None
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL					
4.1	Legal Authority	Yes	No	Municipality, Developers and Construction Companies	None
4.2	Construction Sites Annual Inventory	Yes	Yes	Public and Private Construction Projects	None
4.3	Standard Operating Procedures	Yes	Yes	The SOP's was developed. According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from July 2017 to May 2020.	None
4.4	Trainings	Yes	Yes	Municipal Staff, Developers and Construction Companies	Due to the economic situation, the educative publications for the general public will be posting in multiple social networks and sent by email.
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL					
5.1	Legal Authority	Yes	No	Municipality, Developers and Construction Companies	None



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5.2	Standard Operating Procedures	Yes	Yes	New Development or Redevelopment	None
5.3	Trainings	Yes	Yes	Municipal MS4 Staff, Developers and Construction Companies	Due to the economic situation, the educative publications for the general public will be posting in multiple social networks and sent by email.
GOOD HOUSEKEEPING AND POLLUTION PREVENTION IN MUNICIPAL OPERATIONS					
6.1	Municipal Facilities Inventory	Yes	Yes	Municipal Facilities	None
6.2	Standard Operating Procedures (SOP's) and Other Written Procedures/Descriptions (Proper use, storage and disposal of PHFs, Spill Prevention, Municipal Vehicles, Dumpsters, etc)	No	Yes	According to the SWMP approved in May 2015, the timeframe to implementing this goal is yearly from January 2017 to June 2020.	None
6.3	Municipal Staff Trainings	Yes	Yes	Municipal Employees	None

Part I. 2016 Stormwater Management Program (SWMP) Summary

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

PUBLIC EDUCATION AND OUTREACH				
ID	BMP Description	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.)
1.1	Human Resources Environmental Compliance Training Program	100% of employees will receive training yearly on the CWA NPDES small MS4 General Permit – SWMP Requirements and Staff Responsibilities	Develop an Environmental Compliance Training Program for Municipal existing and new hires employees.	The Planning Office creates an Educational Manual that includes all the information for the CWA NPDES small MS4 general Permit, SWMP Requirements and Staff Responsibilities. The Human Resources personal was responsible for delivering the educational manual to all employees. As evidence of reading the signature was collected.
1.2	Comprehensive stormwater pollution prevention education and outreach program	Stormwater Pollution Prevention Education and Outreach Program to address Pollutants of	Update the Stormwater Pollution Prevention Education and Outreach Program to address Pollutants of	Updated Environmental Education and Outreach Program A Stormwater Educative



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PUBLIC EDUCATION AND OUTREACH				
ID	BMP Description	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.)
		Concern & target Public	Concern & target Public Customize existing and new educational material to address pollutants of concern Support after school science clubs in municipal schools	Material Tool Box An Amount of after school science programs
1.3	Classroom Education on Stromwater Pollution Prevention	Educational Materials to Create Stormwater Pollution Prevention Awareness	Make available Educational Materials to Create Stormwater Pollution Prevention Awareness in Municipal and Private Schools Activities Distribute Educational Material in Schools	Post editable/printable educational on Municipal Web-page Environmental Section Number of Downloads on Municipal Website Number of Schools with DBoards posted Number of schools that participate in municipal sponsored stormwater activities were D-Boards were posted The number of students receiving stormwater education as part of afterschool program Extracurricular activity that involves all the students
1.4	General Community Education on Residential Stormwater Pollution Prevention as well as the steps that can be taken to reduce pollutants in stormwater	Stormwater Pollution Prevention Awareness Illicit discharges identification and elimination focused on fecal coliforms stormwater pollution prevention	Make available Educational Materials to Create Stormwater Pollution Prevention Awareness Conduct General Community Education Activities on illicit discharges identification and elimination focused	Post editable/printable educational on Municipal Web-page Environmental Section Number of Downloads on Municipal Website Editable/Printable DBoards posted in Municipal Web-page environmental section



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PUBLIC EDUCATION AND OUTREACH				
ID	BMP Description	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.)
			on fecal coliforms stormwater pollution prevention	<p>regarding fecal coliform pollution sources, Oil & Grease management options, and residential wastewater management</p> <p>Number of community members that participate in municipal-sponsored stormwater activities were D- Boards were posted</p> <p>Number of community workshops where stormwater education was distributed/shared</p>
1.5	Municipal Employees, Contractors, and Business Owners Education on hazards associated with illegal discharges and improper disposal of waste	Hazards associated with illegal discharges and improper disposal of waste	<p>Make available Educational Materials to Create Stormwater Pollution Prevention Awareness</p> <p>Conduct Municipal Employees Education Activities on illicit discharges identification and elimination focused on stormwater pollution prevention</p>	<p>Post editable/printable educational on Municipal Web-page Environmental Section</p> <p>Number of Downloads on Municipal Website</p> <p>Editable/Printable DBoards posted in Municipal Web-page environmental section regarding Municipal Activities, Construction Projects, and Private Business Stormwater Pollution Prevention</p> <p>Number of business, municipal facilities, and construction projects were D-Boards were posted Number of workshops where stormwater education was distributed/shared</p>



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Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

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

PUBLIC INVOLVEMENT AND PARTICIPATION			
ID	BMP Description	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.)
2.1	Adopt a Stream	This program is designed to recruit public and private partners to take sustained action to keep stormwater drains clear and clean, to improve water quality and protect stream habitats and to increase water quality issues reporting. The volunteers will be responsible for facilitating a stream cleanup at least one per year during a minimum term of 4 years. The Municipality will educate the volunteers on what happens when rainwater goes down the drain, place a sign bearing companies/ group/ association name along the road by your adopted stream segment, and will provide the materials necessary for the storm drains markers installation.	Adopt a Stream Program Description, Participating Instructions, and Voluntary Enrollment Forms posted in the Municipal Website Environmental Section The number of volunteers or participants The number of Streams Adopted
2.2	Storm Drain Marker Program	This program is designed to recruit public and private partners to take sustained action to keep stormwater drains clear and clean, to improve water quality and protect stream habitats and to increase water quality issues reporting. The volunteers will be responsible to install 25 drain markers each year. The Municipality will educate the volunteers on what happens when rainwater goes down the drain, place a sign bearing companies/ group/ association name along the road by your adopted stream segment, and will provide the materials necessary for the storm drains markers installation.	Storm Drain Marker Description, Participating Instructions, and Voluntary Enrollment Forms posted in the Municipal Website Environmental Section The number of volunteers or participants The number of Stormwater drains marked within the MS4 area
2.3	SWMP Availability and Implementation Status Public Notice	The Municipality develops an Environmental Website http://www.aibonitopr.net/manejo-de-esorrentias.html in which all the Annual reports and the SWMP area available for download. The Municipality will continue to posting yearly the annual reports. Also all the documents are available in the Planning Office in the City Hall.	Have SWMP and Annual Reports available for the public in the Planning & Zoning Office in the City Hall, in the Municipal Website, and in the Mayors Annual Status Report Number of Downloads on Municipal Website and copies requested in the Municipality
2.4	Participation in Volunteer	The activities will include Rivers/streams	Enrollment and Participation of Volunteers in the



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PUBLIC INVOLVEMENT AND PARTICIPATION			
ID	BMP Description	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.)
	Events	Clean-up (as participating in the International Coastal Cleanup of the Scuba Dogs Society), Recycling Events and a Watershed Monitoring Program, are focused on increasing public involvement and participation with the intention to reduce the harmful effects of polluted stormwater runoff in superficial waters quality. Activities that will reduce or eliminate the impacts of stormwater discharges will be developed and implemented within the permit term to increase the general level of involvement in the development and implementation of the SWMP throughout the community.	<p>International Coastal Clean-up</p> <p>Number of River/Stream Clean-ups Coordinated with Volunteers</p> <p>Number of Recycling Activities Coordinated, at Communities, with Volunteers Watershed Monitoring Program</p> <p>Quantity of Watershed Monitoring Program activities coordinated with volunteers and Municipal staff</p>

Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

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

ILLICIT DISCHARGE DETECTION AND ELIMINATION			
ID	BMP Description	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.)
3.1	Outfalls Inspection	<p>Develop an IDDE Plan and Determine whether the small MS4 is a source of the identified pollutants of concern.</p> <p>It is required to develop, implement and enforce a program to detect, investigate, and eliminate illicit discharges into the small MS4. The program will include a plan to detect and address non-allowable non-stormwater discharges, including illegal dumping to the MS4 system. Existing permittees, as the municipality of Aibonito, shall assess program elements that are described in the existing SWMP, modify as necessary, and develop and implement new elements, as necessary to continue reducing the discharge of pollutants from the MS4 to the MEP.</p>	<p>IDDE Plan including, IDDE Ordinance and Implementation SOPs completed</p> <p>Number of outfalls identified on the Dry and Wet Weather inspections</p>



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3.2	Problem Catchment Areas Investigation for Illicit Discharges and SSOs Identification and Elimination	Complete the Catchment Investigation Procedure in a minimum of 80% of the MS4 area served by Problem Catchment within 3 years following the date of authorization of coverage of the New Stormwater Permit	Number of SSOs and Illicit Discharges Identified and Eliminated
3.3	Adopt a Stream	This program is designed to recruit public and private partners to take sustained action to keep stormwater drains clear and clean, to improve water quality and protect stream habitats and to increase water quality issues reporting. The volunteers will be responsible for facilitating a stream cleanup at least one per year during a minimum term of 4 years. The Municipality will educate the volunteers on what happens when rainwater goes down the drain, place a sign bearing companies/ group/ association name along the road by your adopted stream segment, and will provide the materials necessary for the storm drains markers installation.	Adopt a Stream Program Description, Participating Instructions, and Voluntary Enrollment Forms posted in the Municipal Website Environmental Section The number of volunteers or participants The number of Streams Adopted
3.4	Storm Drain Marker Program	This program is designed to recruit public and private partners to take sustained action to keep stormwater drains clear and clean, to improve water quality and protect stream habitats and to increase water quality issues reporting. The volunteers will be responsible to install 25 drain markers each year. The Municipality will educate the volunteers on what happens when rainwater goes down the drain, place a sign bearing companies/ group/ association name along the road by your adopted stream segment, and will provide the materials necessary for the storm drains markers installation.	Storm Drain Marker Description, Participating Instructions, and Voluntary Enrollment Forms posted in the Municipal Website Environmental Section The number of volunteers or participants The number of Stormwater drains marked within the MS4 area
3.5	Illegal Dumping Detection, Identification & Elimination Program	Implementation of Ordinance #1 Series 99-2000. The ordinance prohibits the act of littering or dumping in places or areas not intended as the roadsides, water bodies and their banks and at the same time creates penalties.	Number of Illegal Dumping Ordinance Violation Notified Number of illegal Dumping Eliminated
3.6	IDDE Interactive Section in the WebPage	People accessing or providing illicit Discharges notifications through a web application in the Municipality Environmental Website	Online availability of the Section Amount of people accessing the Website section. Amount of Illicit Discharge Notifications Received



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3.7	Participation in Volunteer Events	The activities will include Rivers/streams Clean-up (as participating in the International Coastal Cleanup of the Scuba Dogs Society), Recycling Events and a Watershed Monitoring Program, are focused on increasing public involvement and participation with the intention to reduce the harmful effects of polluted stormwater runoff in superficial waters quality. Activities that will reduce or eliminate the impacts of stormwater discharges will be developed and implemented within the permit term to increase the general level of involvement in the development and implementation of the SWMP throughout the community.	Enrollment and Participation of Volunteers in the International Coastal Clean-up Number of River/Stream Clean-ups Coordinated with Volunteers Number of Recycling Activities Coordinated, at Communities, with Volunteers Watershed Monitoring Program Quantity of Watershed Monitoring Program activities coordinated with volunteers and Municipal staff
3.8	Used Oil Recycling Program	The Recycling Office will be responsible for the operation, collection and the routine maintenance of used oil collection facilities; providing public education and outreach programs related to the disposal of used motor oil; and maintaining an information center to educate citizens regarding the proper disposal of used motor oil.	Used Oil Program Description, Participating Instructions, and Voluntary Enrollment Forms posted in the Municipal Website Environmental Section The number of Participants The number of gallons of used oil collected

Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

Construction Site and Stormwater Runoff Control (See Section 2.4.4 for detailed information of required BMPs):

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL			
ID	BMP Description	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.)



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4.1	Legal Authority	<p>The Municipality developed an ordinance as the regulatory mechanism to require the use of sediment and erosion control practices at construction sites. The ordinance was approved by the Municipal Legislature and by the Mayor in January 2015. It mandates that all construction projects (private and public) within the delimitation of Aibonito comply with PREQB and OGPe requirements. In order to enforce the policy, the Municipality will require developers to submit the Consolidated General Permit that contains the CES Plans to the Planning and Zoning Office to perform a review and ensure there is no deficiencies. If deficiencies were found in the Plan, the Municipality should formally notify PREQB and OGPe, and request appropriate revision as needed. The Construction Ordinance was reviewed adopted in January 2015. For the new SWMP 2015, the activities related to this requirement are targeted in the implementation and enforcing of the Ordinance.</p>	The Ordinance was reviewed and adopted in January 2015.
4.2	Construction Sites Annual Inventory	<p>Then Municipality is required to maintain an inventory of all permitted active public and private construction sites, including evidence of NOI submittal, SPPP or CES Plan. This is a new requirement under the 2015 Small MS4 General Permit. The Municipality will develop a construction public and private sites inventory and will update it yearly. Each new project will be added to the inventory on its registry. The inventory will serve as a checklist for ensure compliance with review Plans of all construction projects and inspections by prioritization. The Municipality will make this inventory available to the permitting authority upon request.</p>	Prioritized list of public and private projects



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4.3	Standard Operating Procedures	<p><u>Sediment and Erosion Control Practices SOP:</u> The Municipality will develop an SOP to guide the municipal staff in determining the appropriate BMPs for the conditions at the construction sites and in assisting the PREQB in the implementation of existing Commonwealth laws and regulations. The SOP may include references to BMP design standards in PREQB manuals or design standards specific to the MS4. EPA supports and encourages the use of design standards in local programs. The Municipality will assist the PREQB and PRDNER in the implementation of existing Commonwealth of Puerto Rico regulations, most specifically the "Reglamento para el Control de la Erosión y Prevención de la Sedimentación" mandated by the "Ley sobre Política Pública Ambiental" (Law No. 416, September 22, 2004). The Regulation requires that a Control of Erosion and Prevention of Sedimentation Plan (CES Plan) be submitted and approved by the PREQB for any construction project which disturbs more than 900 m2 or moves a volume of soil greater than or equal to 40 m3. CES Plans must describe the BMPs to be used on site (temporary and permanent) which will control erosion and sedimentation. The proposed BMPs must be those approved by PREQB. PREQB conducts inspections to ensure that the approved BMPs are actually implemented and maintained during the construction project. In addition, as part of the assistance to the PREQB, the Municipality will conduct project inspections on a monthly basis.</p>	<p><u>Sediment and Erosion Control Practices SOP:</u> - 100% of public projects reviewed for the practices in sediment and erosion control.</p> <p>-50% of private project reviewed the 1st year, then 100%.</p>
		<p><u>Construction Site Wastes Management SOP:</u> The Municipality will develop a method to control wastes and prohibit discharges, including but not limited to wastewater from washout of concrete and from water well drilling operations; construction materials; fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and, detergents or solvents used in vehicle and equipment washing; and discharges from dewatering activities, unless managed by appropriate BMPs. The IDDE, Construction and Post-construction ordinances were approved in January 2015. For the implementation period of this SWMP 2015 the Municipality will develop an SOP for the appropriate BMPs for the managing of wastes from construction sites.</p>	<p><u>Construction Site Wastes Management SOP:</u> - 100% of public projects inspected for waste management</p> <p>- 50% of private project inspected the 1st year, then 100%</p>



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	<p><u>Construction SOP:</u></p> <p>The Municipality must maintain and implement site plan review procedures that describe which plans will be reviewed as well as when an operator may begin construction. Site plan review shall include a review by the Municipality of the site design, the planned operations at the construction site, planned BMPs during the construction phase, and the planned BMPs to be used to manage runoff created after development. If the Municipality do not has active legal authority to enforce site plan reviews, this requirement is limited to those sites operated by the Municipality and its contractors and located within the Municipality regulated area. The Municipality developed a Plan Review SOP in 2011. This SOP will be revised and updated to include the requirement of the Draft Small MS4 General Permit 2014. The implementation of this procedure must start immediately upon its revision for Municipal construction projects within the Aibonitos' Urban Area.</p>	<p><u>Construction SOP:</u></p> <p>-100% of public projects reviewed Permit requirements.</p> <p>- 50% of private project reviewed the 1st year, then 100%.</p>
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Standard Operating Procedures	<p><u>Pre-Construction SOP:</u></p> <p>The Municipality must maintain and implement pre-construction review procedures that describe which environmental requirements for the construction project are applicable, including the environmental permits, as well as to establish the responsible party (e.g., owner, developer, contractor, among others) of the construction project. The procedure for pre-construction review shall be completed within one (1) year from the authorization under the Draft Small MS4 General Permit 2014. Pre-construction review shall include a review by the Municipality of the required construction related permits, site design size, stormwater discharges, the planned operations design at the construction site, planned BMPs design during the construction phase, and the planned BMPs design to be used to manage runoff created after development. If the Municipality do not has active legal authority to enforce Pre-construction review, this requirement is limited to those sites operated by the Municipality and its contractors and located within the Municipality regulated area.</p> <p>A Pre-construction Review SOP will be developed. The SOP could be incorporated in the Plan Review SOP aforementioned during its revision or developed separately. The implementation of the SOP must start immediately upon its completion for Municipal construction projects within the Aibonitos' Urban Area.</p>	<p><u>Pre-Construction SOP:</u></p> <ul style="list-style-type: none"> -100% of public projects reviewed for the planned BMPs. - 50% of private project reviewed the 1st year, then 100%.
Standard Operating Procedures	<p><u>Construction Site Inspections and Enforcement SOP:</u></p> <p>The Draft Small MS4 General Permit 2014 established that the Municipality shall implement written procedures for inspecting construction projects for sediment and erosion control measures. Development of procedures for site inspection and enforcement of control measures was a requirement of the 2006 Small MS4 General Permit (Part 4.2.4.1.6 of the 2006 permit). The Municipality developed a Field Inspection SOP in 2011. This SOP will be revised to incorporate any new requirement specified in the 2015 Small MS4 General Permit. The implementation of this procedure must start immediately upon its revision for Municipal construction projects within the Aibonitos' Urban Area.</p>	<p><u>Construction Site Inspections and Enforcement SOP:</u></p> <ul style="list-style-type: none"> - 100% of public projects inspected. - 50% of private project inspected, the 1st year, then 100%.



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4.4	Trainings	<p><u><i>Trainings to Municipal MS4 Staff, Developers and Construction Companies Staff and General Community.</i></u></p> <p>The Municipality shall ensure that all staff whose primary job duties are related to implementing the construction stormwater program (including permitting, plan review, construction site inspections, and enforcement) are informed and trained to conduct these activities. During the implementation of the SWMP 2010, the Municipality conducted trainings for Municipal staff and contractors on various themes such as SWMP, Ordinances, SOPs, Federal and Local Regulations for Stormwater Management, Construction BMPs, Post-Construction BMPs and On-site BMPs Workshops. For this new permit term, the training and workshops for the Construction MCM will be focused in Permitting, CES Plan Reviews, Construction Site Inspections and Enforcement of Construction Ordinance. The Municipality will maintain on file supporting documents of all the offered training and will make it available to the permitting authority upon request. The file should include but may not be limited to: attendance lists to the trainings/workshops, photos, educative material discussed and/or distributed and reports.</p>	<p>100% of developers and construction companies of registered construction projects formally invited to the annual training; with a participation of 80%.</p> <p>List of 100% of the developers and contractors visiting the office and receiving the poster.</p> <p>Due to the economic situation, the educative publications for the general public will be posting in multiple social networks and sent by email.</p>
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Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

Post-Construction Stormwater Management in New Development and Redevelopment (See Section 2.4.4 for detailed information of required BMPs):

POST- CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT			
ID	BMP Description	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.)



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5.1	Legal Authority	<p>The Municipality developed a regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under Commonwealth of Puerto Rico and local law and local development Standards. The Post- construction Ordinance was approved by the Municipal Legislature and by the Mayor in January 2015. With this ordinance, the Municipality aims that the facility owners and/or operators control the volume and velocity of the stormwater produced in their facilities. The ordinance Provide methods for audit, penalties and fines for its noncompliance. The Post-construction Ordinance will be reviewed for adequacy under 2015 Small MS4 General Permit. For the new SWMP 2015, after ordinance revision full approval, the activities related to this requirement are targeted in the implementation and enforcing of the Ordinance.</p>	Fully Signed Ordinance
5.2	Standard Operating Procedures Standard Operating Procedures Standard Operating Procedures	<p><u>Development/Redevelopment SOP:</u> The Municipality shall develop procedures to ensure that any stormwater controls or best management practices for new development and redevelopment will prevent or minimize impacts to water quality. These procedures may also include requirements to avoid disturbance of areas susceptible to erosion and sediment loss; requirements to preserve areas in the municipality that provide Important water quality benefits; Requirements to implement measures for flood control; and requirements to protect the integrity of natural resources.</p> <p>The Municipality developed an Operation and Maintenance Plans Review SOP. This Procedure has not been implemented because the post-construction ordinance was not approved until January 2015. The implementation of the SOP will start immediately after revision completed for municipal developments or re-developments, and upon revised Ordinance approval for private projects within the Aibonito' Urban Area.</p>	Developed SOP



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		<p><u><i>Inspections for the BMPs in New Development/Redevelopment SOP:</i></u> The Municipality shall develop and implement an inspection program to ensure that all post-construction stormwater control measures are operating correctly and are being maintained as required consistent with its applicable maintenance plan. For small MS4s with limited enforcement authority, this requirement applies to the structural controls owned and operated by the small MS4 or its contractors that perform these activities within the small MS4's regulated area. The Municipality will conduct post-construction BMPs inspections on a regular basis to projects owner or operated by the Municipality or its contractors. Those inspections should start immediately after the revision of the SOP is completed. The Municipality will document all the inspections and findings in an inspection report and will make them available for review by EPA as needed; as well as all the enforcement actions.</p>	<p>- 100% of public projects inspected.</p> <p>-50% of private project inspected, the 1st year, then 100%.</p>
		<p><u><i>Low Impact Development (LID) Practices in New Development/Redevelopment SOP:</i></u> The development/redevelopment inspection program may include a process to require the implementation of low impact development practices that infiltrate, evapotranspire, or capture for reuse the first (1) inch of rainfall from a 24 hour storm preceded by 48 hours of no measurable precipitation. The Municipality will develop an SOP to evaluate opportunities for the use of LID or green infrastructure in municipal developments or re-developments. When the opportunity exists, the Municipality shall make a plan to implement those practices into the facility. The implementation of LID in the facility will start within one (1) year of the identification for LID potential.</p>	<p>-100% of identified LID potential addressed with a written plan/design.</p> <p>-50% of LID plans/designs executed.</p> <p>-100% of Municipal facilities for evaluated for LID.</p>



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5.3	Trainings	<p><u><i>Trainings to Municipal MS4 Staff, Developers and Construction Companies Staff and General Community.</i></u></p> <p>The Municipality shall ensure that all staff whose primary job duties are related to implementing the Postconstruction stormwater program is trained to conduct these activities. For this permit period, the training and workshops for the Postconstruction MCM will be focused in Operation and Maintenance Plan Reviews, Post-construction BMPs Inspections and Evaluation and Recommendation of LIDs or green infrastructure. The training/workshop will be conducted at least once per year for each theme and several themes can be combined in one training section as needed. The training may be conducted by the Municipality or by external consultants. The Municipality will maintain file of all the offered training to its personnel regarding the Postconstruction MCM and will make it available to the permitting authority upon request. The file could include but will not be limited to: attendance lists to the trainings/workshops, photos, educative material discussed and/or distributed and reports. In addition to staff training, trainings and workshops will be offered to contractors, developers, operators and owners on the Implementation, Operation and Maintenance of BMPs to Manage and Control Stormwater.</p>	<p style="text-align: center;">100% of developers and Construction companies of registered Construction projects formally invited to the annual training; with a participation of 80%.</p> <p>Due to the economic situation, the educative publications for the general public will be posting in multiple social networks and sent by email.</p>
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Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

Good Housekeeping and Pollution Prevention in Municipal Operations (See Section 2.4.4 for detailed information of required BMPs):

GOOD HOUSEKEEPING AND POLLUTION PREVENTION IN MUNICIPAL OPERATIONS			
ID	BMP Description	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.)
6.1	Municipal Facilities Inventory	Annual update and prioritization	Prioritized list of municipal facilities



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6.2	<p style="text-align: center;">Standard Operating Procedures (SOP's) and Other Written Procedures/Descriptions (<i>Proper use, storage and disposal of PHFs, Spill Prevention, Municipal Vehicles, Dumpsters, etc</i>)</p>	<p>The Municipality will develop and implement an operation and maintenance program, including an employee training component that has the ultimate goal of preventing or reducing pollutant runoff from municipal activities and municipally owned facilities including but not limited to park and open space maintenance; street, road, or highway maintenance; fleet and building maintenance; stormwater sewer system maintenance; new construction and land disturbances; municipal parking lots; vehicle and equipment maintenance and storage yards; and waste transfer stations, among others.</p> <p><u><i>Parks and Open Space:</i></u> The Municipality will evaluate the lawn maintenance and landscaping activities to ensure practices are protective of water quality. An SOP will be developed to address the proper use, storage, and disposal of pesticides, herbicides, and fertilizers (PHFs). The SOP will include alternative to minimize the use of these products and how to use them in accordance with the manufacturer's instruction. The management of other pollutants can be included (e.g. petroleum products). In addition, the Municipality will develop a written description with the amount of necessary dumpsters per park/open space and a schedule for emptying those containers. The description will include a design of signage for waste containers for their classification (e.g. pet wastes).</p> <p><u><i>Buildings and Facilities where Pollutants are exposed to Stormwater Runoff:</i></u> The Municipality developed a Spill Prevention SOP in 2011. The Municipality will evaluate the use, storage, and disposal of petroleum products and other potential stormwater pollutants and will update the existing Spill Prevention SOP. A "BMPs for Stormwater Pollution prevention in Municipal Facilities" SOP will be developed. This SOP shall address the management procedures for dumpsters and other waste management equipment in municipal facilities, parks and open spaces; and will include procedures and a schedule for the sweeping of municipal owned parking lots and the cleaning of the areas surrounding the facilities to reduce runoff of pollutants. The sweeping activities will be implemented in additional uncurbed streets as needed.</p>	<p style="text-align: center;">Developed SOP</p> <p style="text-align: center;">Registry of alternatives implemented to reduce the use of PHFs</p> <p style="text-align: center;">Number of spills reported and managed as needed</p> <p style="text-align: center;">Installed dumpsters/containers</p> <p style="text-align: center;">Developed document (poster/flyer)</p>
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		<p><u>Vehicles and Equipment:</u> The Municipality will establish procedures for the storage of municipal vehicles and the management of vehicles with fluid leaks. In addition, will evaluate fueling areas used and will establish procedures to prevent the discharging of vehicle wash waters into the municipal storm sewer system or to surface waters. These procedures will be included as needed in the Spill Prevention SOP aforementioned.</p>	
		<p>The Municipality will develop an annual schedule for the inspection, cleaning and maintenance of the MS4, by sections and priority, within the urban areas of Aibonito. The total number of catch basins inspected, the number cleaned, and the volume or mass of material removed from each catch basin draining to impaired waters will be reported in the Annual Report to EPA.</p>	<p>Registry of MS4 sections inspected, cleaned and amount of material removed.</p> <p>Revised and updated SWPPP</p>
6.3	Municipal Staff Trainings	<p>The municipal employees received general training in Pollution Prevention and Good Housekeeping for Municipal Operations during the past permit period.</p> <p>For this permit period, the municipal staff working in the high priority facilities will receive training/workshops covering specific components and scope of the SWPPP and the control measures required under this MCM, including spill response, good housekeeping, material management practices, any best management practice for operation and maintenance, etc. The training/workshops will be conducted at least once a year. The Municipality will keep written record of all activities performed under this MCM including but not limited to developed documents, maintenance activities, inspections and trainings. The documentation will be included in the Annual Report to EPA.</p>	<p>100% of high priority municipal facilities trained yearly.</p>



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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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to 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: _____

Printed Name: William Alicea Pérez

Title: Alcalde

Date: 7/12/2016

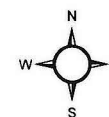
APPENDIX A



MUNICIPALITY OF AIBONITO

Urban Areas & Wards

March 2015



0 325 50 1,300 1,950 2,600 Meters

Legend

- Aibonito Delimitation
- Urban Areas
- Wards
- Towns - PR

1:50,000

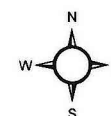


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MUNICIPALITY OF AIBONITO

Index Map - MS4

March 2015



0 137.5 275 550 825 1,100
Meters

Legend

- ★ Discharge Points
- Ditch
- Gutter
- CURB INLET
- GRATE INLET
- HEAD WALL
- INLET
- ◆ MH
- OUTLET
- PIPE
- Pipes
- Water Flow
- Drainage
- ▲ Relevant Points
- Grid-MS4
- Urban Areas

1:20,000



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APPENDIX B

Table No. 3 Aibonito's Waters in the "Puerto Rico 303(d) Listed Waters for Reporting Year 2012"³

Waterbody Name	Waterbody ID	Brief Description regarding Aibonito	Cause of Impairment for Reporting Year 2012	Probable Sources	TMDLs	Waste Loads Allocations (WLA) ⁴	Number of Outfalls discharging from Urban Areas
Río Aibonito	PRER10I2	Collects waters from Urban Area of Aibonito and is a tributary of Río Usabón.	Fecal Coliform	Confined Animal Feeding Operations, Major Municipal Point Sources, Minor Industrial Point Sources, Onsite Wastewater Systems (Septic Tanks), Urban Runoff/Storm Sewers.	TMDL needed	--	45 approx.
<i>Quebrada Serrallés</i>		Collects waters from urban area of <i>Pasto</i> and is a tributary of Río Aibonito.				--	25 approx.
Río Usabón	PRER10I1	Tributary of Río La Plata	Fecal Coliform	Collection System Failure, Confined Animal Feeding Operations, Landfills, Minor Industrial Point Sources, Minor Municipal Point Source, Onsite Wastewater Systems (Septic Tanks), Urban Runoff/Storm Sewers.	TMDL needed	--	--
<i>Quebrada Aguas Largas</i>		Tributary of Río Usabón				--	--
<i>Quebrada Alicia</i>		Tributary of Río Usabón				--	--
Río Cuyón	PRSR57B	Origin at Cuyón Ward and flows Southwest to Coamo.	Arsenic, Cyanide, Fecal Coliform, Thermal Modifications and Turbidity	Agriculture, Collection System Failure, Confined Animal Feeding Operations, Onsite Wastewater Systems (Septic Tanks), Package Plant Or Other Permitted Small Flows Discharges, Urban Runoff/Storm Sewers.	TMDL Report #41091, Sept 2011 for Fecal Coliform	TMDL Report #41091: -NPDES Facility PR0025569 (Cuyón Ward School) = 3.87E+10 #/yr	--
<i>Quebrada Algarrobo</i>		Origin at Algarrobo Ward and a tributary of Río Cuyón				-Urban MS4: 9.5130E+09 #/yr	--
<i>Quebrada Obispo</i>		Tributary of Río Cuyón			TMDLs needed for reporting year 2012		--
Río La Plata	PRER10A4	Main river of Río de La Plata Watershed. Flows into the Atlantic Ocean.	Arsenic, Copper, Cyanide, Fecal Coliform, Surfactants and Turbidity	Agriculture, Collection System Failure, Confined Animal Feeding Operations, Landfills, Minor Industrial Point Sources, Onsite Wastewater Systems (Septic Tanks).	TMDL needed	--	--
<i>Quebrada Honda</i>		Origin at Robles Ward and a tributary of Río La Plata				--	--
<i>Quebrada Gómez</i>		Runs through the delimitation of Aibonito at the Robles Ward. Is a tributary of Río La Plata				--	--

The estimated fecal coliform bacteria loads for the MS4 area of the Municipality of Aibonito was 1.4093E+10 units/year for the assessment unit PRSR57B (Río Cuyón) as reported in the TMDLs Report of 2011.

³ http://ofmpub.epa.gov/waters10/attains_impaired_waters.impaired_waters_list?p_state=PR&p_cycle=2012

⁴ Fecal Coliform Bacteria Total Maximum Daily Loads for Assessment Units in the Commonwealth of Puerto Rico, September 2011.