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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 to:



**MUNICIPALITY OF SAN LORENZO**  
PO Box 1289  
San Lorenzo, PR 00754

**RECEIVED**  
SEP 28 2016

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
- OUTFALL MAP

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 Bureau of the Census.

As outlined in these regulations the Autonomous Municipality of San Lorenzo is required to submit an application for permit coverage as well as a Storm Water Management Plan (SWMP). On April 10, 2008 the Municipality submitted a Notice of Intent (NOI) and on September 5, 2008 were issued coverage under Permit Number PRR040037. The Municipality developed and submitted a Stormwater Management Plan on April 2008, and is currently on Year 8 of its implementation.

### 1.2 2016 MS4 GENERAL PERMIT

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

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

### 1.3 NOTICE OF INTENT FORM FOR MS4 IN PUERTO RICO (APPENDIX F)

#### 1.3.1 PART A. GENERAL INFORMATION

1. Name of Municipality or Organization: **Municipality of San Lorenzo**
2. Type: Federal State  Municipality  Other:
3. Existing Permittee:  Yes  No

If yes, provide EPA NPDES Permit Number: **PRR040037**

4. Location Address:

- a. Street: **Casa Alcaldía, Luis Muñoz Rivera**
- b. City: **San Lorenzo** State: **PR** Zip Code: **00754**

5. Mailing Address:

- a. Street: **P.O. Box 1289**
- b. City: **San Lorenzo** State: **PR** Zip Code: **00754**

6. Telephone Number: **(787) 736-3511** Fax: **(787) 736-9420**

7. E-mail: **jlopez@sanlorenzopr.net**

8. Standard Industrial Classification (SIC) Code: **9199**

9. Latitude: **18.156400 N** Longitude: **-65.974284 W**

*2.2.4.2 Approximate center of the regulated portion of the MS4.*

**1.3.2 PART B. PRIMARY MS4 PROGRAM MANAGER CONTACT INFORMATION**

1. Name: **Jean López Muñoz**

2. Position Title: **Planning and Development Office**

3. Stormwater Management Program (SWMP) Location (web address or physical location): **Casa Alcaldía, Luis Muñoz Rivera, Municipality of San Lorenzo**

4. Mailing Address:

- a. Street: **P.O. Box 1289**
- b. City: **San Lorenzo** State: **PR** Zip Code: **00754**

5. Telephone Number: **(787) 736-3511 ext. 274**

6. E-mail: **jlopez@sanlorenzopr.net**

**1.3.3 PART C. ELIGIBILITY DETERMINATION**

1. Endangered Species Act (ESA) determination 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

### 1.3.4 PART D. MAP/BOUNDARIES

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

The Autonomous Municipality of San Lorenzo has a territorial extension of 53.28 square miles and a population of 40,947 inhabitants<sup>1</sup>, according to the 2010 Census. San Lorenzo is located in the South-Eastern region of Puerto Rico. It is bounded to the North with the municipalities of Juncos and Las Piedras and Gurabo, to the East with the municipality of Yabucoa, to the South with the municipality of Patillas, and to the West with the municipality of Caguas. The municipality is composed of 11 wards: Hato, Quebrada, Florida, Jagual, Quemados, Cayaguas, Quebrada Honda, Espino, Quebrada Arenas, Cerro Gordo and Pueblo. The main rivers in San Lorenzo are: Río Grande de Loiza, Río Emajagua, and Río Cayaguas.

The Autonomous Municipality of San Lorenzo operates a municipal separate storm water sewer system, which includes developed urban areas and rural areas within the municipality. The MS4 in the urban areas in general consist of a series of catch basins, typically located within the right-of-way of municipal and Commonwealth roads, interconnected by underground concrete or PVC pipes which normally discharge to the Río Grande de Loíza or its tributaries. In the rural areas the Municipal MS4s system typically consists of a series of interconnected open channel culverts, which run parallel to municipal and Commonwealth roads, and usually discharge to a surface water body. 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.

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

### 1.3.5 PART E. MS4 INFRASTRUCTURE

1. Estimated Percent of Outfall Map Complete? (*Part 4.2.3 of 2006 general permit*):  
**90% outfall map complete.**

a. If 100% of 2006 requirements are not met, enter an estimated date of completion:  
**30 November 2017**

<sup>1</sup> Based Census 2010 Population, Housing Units, Area, and Density Summary, San Lorenzo, Puerto Rico,  
[Http://www.censo.gobierno.pr](http://www.censo.gobierno.pr)

b. Web address where MS4 map is published: **Included in Appendix A- pending to be published in webpage**

### 1.3.6 PART F. BYLAW/ORDINANCE DEVELOPMENT

1. Illicit Discharge Detection and Elimination (IDDE) authority adopted?

✓ Yes No

a. Effective Date or Estimated Date of Adoption: **February 25, 2016**

2. Construction/Erosion and Sediment Control authority adopted?

✓ Yes No

a. Effective Date or Estimated Date of Adoption: **February 25, 2016**

3. Post-Construction Stormwater Management adopted?

Yes ✓ No

a. Effective Date or Estimated Date of Adoption: **June 2017**

### 1.3.7 PART G. RECEIVING WATERS

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)
<b>Río Grande de Loíza</b>	<b>43</b>	<b>no</b>	<b>turbidity</b>	<b>Fecal Coliform</b>
<b>Río Emajagua</b>	<b>5</b>	<b>no</b>	<b>none</b>	<b>none</b>
<b>Quebrada Lajas</b>	<b>3</b>	<b>no</b>	<b>none</b>	<b>none</b>
<b>Quebradas tributarias a Río Grande de Loíza</b>	<b>104</b>	<b>no</b>	<b>none</b>	<b>none</b>

## 1.3.8 PART H. SUMMARY OF STORMWATER MANAGEMENT PROGRAM (SWMP) UNDER THE 2006 SMALL MS4 GENERAL PERMIT

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 to goals or BMP for next permit cycle
<b>MCM1: PUBLIC EDUCATION</b>				
<b>Storm Water Related Public Service Announcements</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>No</b>
<b>Development and Distribution of Storm Water Related Materials</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>No</b>
<b>Storm Water Web Page</b>	<b>No</b>	<b>Yes</b>	<b>General Public</b>  Goal was not reached due to lack of personnel and resources.	<b>No</b>
<b>Storm Water Pamphlets, Booklets and Flyers</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>No</b>
<b>MCM2: PUBLIC INVOLVEMENT</b>				
<b>Stormdrain Stenciling Program</b>	<b>No</b>	<b>No</b>	<b>General Public and School Aged Children</b>  Goal was not reached due to lack of personnel and resources.	<b>This BMP will be eliminated. The Municipality will continue to support local organizations and initiatives such as the Annual Beach Cleanup hosted by Scuba Dogs.</b>
<b>Annual Clean-up</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>No</b>
<b>Support of Local Organizations</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>No</b>

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 to goals or BMP for next permit cycle
<b>Community Hotline</b>	<b>No</b>	<b>Yes</b>	<b>General Public</b>  <b>Goal was not reached due to lack of personnel and resources.</b>	<b>No</b>
<b>MCM3: ILLICIT DISCHARGE DETECTION AND ELIMINATION</b>				
<b>Storm Sewer System Map</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>Map shall include elements required in the 2016 GP Sec. 2.4.4.6</b>
<b>Implement Regulations to Enforce Non-storm water Discharges</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>No</b>
<b>Educational Outreach</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>No</b>
<b>Program to Detect, Identify and Eliminate Illegal Discharges</b>	<b>No</b>	<b>Yes</b>	<b>General Public</b>  <b>Progress has been made toward achieving this BMP but no illicit discharges have been detected so far.</b>	<b>The Municipality will develop an IDDE Program according to requirements in 2016 GP sec. 2.4.4.8</b>
<b>Program to Detect, Identify and Eliminate Illegal Solid Waste Dumping</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>The Municipality will develop an IDDE Program according to requirements in 2016 GP sec. 2.4.4.8</b>
<b>Program to Detect, Identify and Eliminate Waste Water Connections to the Storm Drain System</b>	<b>No</b>	<b>Yes</b>	<b>General Public</b>  <b>Progress has been made toward achieving this BMP</b>	<b>The Municipality will develop an IDDE Program according to requirements in 2016 GP</b>

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 to goals or BMP for next permit cycle
			<b>but no illicit discharges have been detected so far.</b>	<b>sec. 2.4.4.8</b>
<b>Program to Detect and Eliminate Sanitary Overflows</b>	<b>No</b>	<b>Yes</b>	<b>General Public</b>  <b>Progress has been made toward achieving this BMP but SOP developed for reporting and documenting SSOs has not been fully implemented.</b>	<b>Documentation of SSOs will be according to requirements of 2016 GP.</b>
<b>Program to Detect and Eliminate Failing Septic Systems</b>	<b>Yes</b>	<b>Yes</b>	<b>General Public</b>	<b>No</b>
<b>MCM 4: CONSTRUCTION</b>				
<b>Ordinance or Other Regulatory Mechanism</b>	<b>Yes</b>	<b>Yes</b>	<b>Designers Developers Contractors Inspectors Enforcement personnel</b>	<b>No</b>
<b>General Construction Site Waste Controls</b>	<b>No</b>	<b>Yes</b>	<b>Designers Developers Contractors Inspectors Enforcement personnel</b>  <b>Goal was not reached due to lack of a Planning Department and resources.</b>	<b>No</b>

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 to goals or BMP for next permit cycle
<b>Information Submitted by the Public</b>	<b>Yes</b>	<b>Yes</b>	<b>Designers Developers Contractors Inspectors Enforcement personnel</b>  <b>Goal was not reached due to lack of a Planning Department and resources.</b>	<b>No</b>
<b>Construction Site Inspection and Enforcement</b>	<b>Yes</b>	<b>Yes</b>	<b>Designers Developers Contractors Inspectors Enforcement personnel</b>  <b>Goal was not reached due to lack of a Planning Department and resources.</b>	<b>No</b>
<b>MCM 5: POST-CONSTRUCTION</b>				
<b>Ordinance or Other Regulatory Mechanism</b>	<b>No</b>	<b>Yes</b>	<b>Designers Developers Contractors Inspectors Enforcement personnel</b>  <b>The Municipality has not achieved its goal because it is evaluating mechanisms to implement this BMP.</b>	<b>No</b>

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 to goals or BMP for next permit cycle
<b>Structural Practices</b>	<b>No</b>	<b>Yes</b>	<b>Designers</b> <b>Developers</b> <b>Contractors</b> <b>Inspectors</b> <b>Enforcement personnel</b>  <b>Goal was not reached due to lack of Planning Department and resources.</b>	<b>No</b>
<b>Nonstructural Practices</b>	<b>No</b>	<b>Yes</b>	<b>Designers</b> <b>Developers</b> <b>Contractors</b> <b>Inspectors</b> <b>Enforcement personnel</b>  <b>Goal was not reached due to lack of a Planning Department and resources.</b>	<b>No</b>
<b>Inspection of Operation and Maintenance Plans</b>	<b>No</b>	<b>Yes</b>	<b>Designers</b> <b>Developers</b> <b>Contractors</b> <b>Inspectors</b> <b>Enforcement personnel</b> <b>Goal was not reached due to lack of a Planning Department and resources.</b>	<b>No</b>

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 to goals or BMP for next permit cycle
<b>MCM 6: POLLUTION PREVENTION (GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS)</b>				
<b>Source Control-Pet Waste Collection</b>	No	Yes	<b>General Public</b>  Policy development was evaluated but found to be not feasible; efforts will be focused on education.	This BMP's goal will be to educate the community regarding pet waste impacts on water quality.
<b>Source Control Vehicle Maintenance</b>	Yes	Yes	<b>Businesses</b> <b>Municipal employee</b> <b>Enforcement personnel</b>	No
<b>Source Control-Vehicle Washing</b>	Yes	Yes	<b>Businesses</b> <b>Municipal employee</b> <b>Enforcement personnel</b>	No
<b>Source Control-Pavement Cleaning Practices</b>	Yes	Yes	<b>Businesses</b> <b>Municipal employee</b> <b>Enforcement personnel</b>	No
<b>Source Control-Roadway and Bridge Repair</b>	Yes	Yes	<b>Businesses</b> <b>Municipal employee</b> <b>Enforcement personnel</b>	No
<b>Source Control- Inspection and Cleaning of Storm Drain System</b>	Yes	Yes	<b>Businesses</b> <b>Municipal employee</b> <b>Enforcement personnel</b>  Procedures were	No

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 to goals or BMP for next permit cycle
			<b>developed. However, they are not being fully implemented and work is not being documented.</b>	
<b>Materials Management-Alternative Products</b>	<b>Yes</b>	<b>Yes</b>	<b>Businesses Municipal employee Enforcement personnel</b>  <b>Procedures were developed. However, they are not being fully implemented and work is not being documented.</b>	<b>No</b>
<b>Materials Management-Storage of Hazardous materials</b>	<b>Yes</b>	<b>Yes</b>	<b>Businesses Municipal employee Enforcement personnel</b>	<b>No</b>
<b>Materials Management-Procedures for spill response and prevention</b>	<b>Yes</b>	<b>Yes</b>	<b>Businesses Municipal employee Enforcement personnel</b>	<b>No</b>
<b>Materials Management - Oil Recycling</b>	<b>Yes</b>	<b>Yes</b>	<b>Businesses Municipal employee Enforcement personnel</b>	<b>No</b>

**1.3.9 PART I. 2016 STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY**

## 1.3.9.1 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>Distribution of Educational Material related to storm water management</b>	<b>Illicit Discharges Pet Waste Vehicle Maintenance and Washing Septic System Maintenance</b>	<b>Brochures, newsletters, flyers and posters available through the Municipal webpage</b>	<b>Number of downloaded materials</b>
<b>Stormwater related Public Service Announcements</b>	<b>Erosion and Sediment Control Waste Management Septic System Maintenance Storm Sewer System Maintenance</b>	<b>Public Service Announcements transmitted through local radio station</b>	<b>Number of announcements transmitted per month.</b>
<b>Educational Outreach with Schools</b>	<b>Stormwater issues and recommended BMPs</b>	<b>Environmental Fair conducted once a year where all schools are invited to participate</b>	<b>Number of schools and children that participated and received information regarding stormwater topics.</b>

### 1.3.9.2 PUBLIC INVOLVEMENT

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>Annual Clean-up</b>	<b>The Annual Clean-up takes place once a year with the participation of community volunteers, Scuba Dogs Society and the Municipality.</b>	<b>The amount of volunteers and waste collected will determine program effectiveness.</b>
<b>Environmental Complaint Hotline</b>	<b>Environmental Complaints will be received and investigated by the Office of Citizen Services.</b>	<b>The amount of complaints received and resolved</b>
<b>Annual Public Meeting</b>	<b>The Municipality will hold an annual meeting to allow the public to participate in the review and implementation of the SWMP.</b>	<b>The number of people attending the meetings</b>

## 1.3.9.3 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>Storm Sewer System Map</b>	<b>The Map will include elements required in section 2.4.4.6 (a)(i) of 2016 NPDES-MS4 General Permit</b>	<b>The measurable goal will be met once the Map is completed in its entirety.</b>
<b>Implement Regulations to Enforce Non-stormwater Discharges</b>	<b>Existing Ordinance will be revised and continue to be implemented</b>	<b>Number of Illicit Discharges detected and eliminated</b>
<b>Program to Detect, Identify and Eliminate Illegal Discharges</b>	<b>The Program shall include all requirements in Sec 2.4.4.8 of 2016 NPDES- MS4 General Permit including catchment priority ranking, investigation and sampling procedures</b>	<b>Number of Illicit Discharges detected and eliminated</b>
<b>Outfall Inventory</b>	<b>All outfalls will be identified and inspected according to Sec 2.4.4.7 of 2016 NPDES- MS4 General Permit</b>	<b>Number or of outfalls identified and inspected</b>
<b>Program to Detect and Eliminate Sanitary Overflows</b>	<b>SSOs will be inspected and eliminated according to Sec 2.4.4.4 of 2016 NPDES- MS4 General Permit</b>	<b>Number of SSOs identified and eliminated</b>

## 1.3.9.4 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>Ordinance or Other Regulatory Mechanism</b>	<b>The Municipality will continue to implement municipal ordinance requiring erosion and sedimentation controls for polluted runoff from construction sites with a land disturbance of greater than or equal to one acre (4,046.8564 square meters) or if the construction activity disturbs less than one acre but is part of a larger common plan of development or sale that would disturb one acre or more.</b>	<b>The number of regulatory mechanisms created and the number of penalties imposed.</b>
<b>General Construction Site Waste Controls</b>	<p>To comply with this BMP, the Municipality developed an ordinance for storm water runoff control at construction sites. The inspection staff will conduct the construction site waste controls inspection and follow up on the correction of deficiencies encountered during the inspections.</p> <p>For the implementation of this municipal ordinance, the Municipality developed a Standard Operating</p>	<p><b>Number of erosion control projects reviewed.</b></p> <p><b>Number of inspections conducted.</b></p>

	<p><b>Procedure (SOP) for the inspection of construction projects. The SOP establishes on detail the inspection process that will be followed by municipal employees to ensure the compliance with this BMP.</b></p> <p><b>The implementation includes trainings to inspection staff and construction related professionals.</b></p>	
<b>Information Submitted by the Public</b>	<b>The Municipality developed a Standard Operating Procedure (SOP) for processing complaints regarding storm water contamination at construction sites, an Inspection Form and Database.</b>	<b>Number of reports received.</b>
<b>Construction Site Inspection and Enforcement</b>	<b>The Municipality developed a Standard Operating Procedure (SOP) and Forms for the inspection of construction sites. The SOP establishes in detail the inspection process that will be followed by municipal employees to ensure the compliance with the SWPPP, CES Plan and the Construction Site Waste Controls.</b>	<b>Number of inspections conducted.</b>

**1.3.9.5 POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT**

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will control stormwater runoff from properties after they are developed, e.g. new regulations, practices, or resources for contractors to use Low Impact Development (LID), etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., adoption of bylaws/ordinances, amount of implemented practices, development of capacity building resources, etc.)
<p><b>Ordinances or Other Regulatory Mechanisms</b></p>	<p><b>The Municipality will develop a regulatory mechanism for the implementation of the Operation and Maintenance Post Construction BMP's Program for new development or redevelopments. The goal of this storm water management ordinance for post-construction runoff is to limit surface runoff volumes and reduce water runoff pollutant loadings.</b></p> <p><b>The ordinance will establish mechanisms to ensure compliance with the post construction operation and maintenance BMP's, including the sanctions and enforcement mechanisms. The possible sanctions will include non-monetary penalties (such a stop work orders) and/or fines up to \$500 per violation per day.</b></p> <p><b>The implementation will include trainings to inspection staff,</b></p>	<p><b>The development of the municipal ordinance and approval of the municipal ordinance by the Municipal Legislature and Mayor;</b></p> <p><b>The development of SOP for the review and inspection of O&amp;M Plans;</b></p> <p><b>The implementation of the SOP for the review and inspection of O&amp;M Plans; and</b></p> <p><b>Number of attendees to the training of municipal employees and construction related professionals.</b></p>

	<p>developers, contractors, designers and construction related professionals. The training would include classroom presentations, in-field training, and follow-up evaluations to determine whether the training was effective. The trainings will be offered at least once a year.</p>	
<p><b>Structural and Non-Structural BMPs Guide</b></p>	<p>The Municipality will develop a guide to promote the use of structural and non-structural BMPs on new developments and redevelopments.</p> <p>The implementation will include trainings to inspection staff, developers, contractors, designers and construction related professionals. The training would include classroom presentations, in-field training, and follow-up evaluations to determine whether the training was effective.</p>	<p>The number of structural and non-structural BMPs used;</p> <p>The number of educational materials distributed through mailing lists; and</p> <p>The number of BMPs installed to manage Post Construction runoff.</p>
<p><b>Inspection and Maintenance Program</b></p>	<p>The Municipality will develop an inspection and maintenance program to maintain the effectiveness of post-construction storm water control BMP's. All BMP's shall be inspected for continued effectiveness and structural integrity at regular inspection intervals. The inspector</p>	<p>The number of agreements approved for Post Construction BMP's; and</p> <p>The number of inspections conducted by municipal employees on Post Construction BMP's.</p>

	<p>shall document whether the BMP is performed correctly, any damage to the BMP since the last inspection, and any repairs to the BMP if damage has occurred.</p> <p>A municipal ordinance and a standard operating procedure (SOP) will be developed for the implementation of the Operation and Maintenance Post Construction BMP's Program for new development or redevelopments.</p>	
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**1.3.9.6 GOOD HOUSEKEEPING AND POLLUTION PREVENTION IN MUNICIPAL OPERATIONS**

<p>BMP Description or BMP ID (e.g. MCM-1)</p>	<p>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.)</p>	<p>Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., structural BMPs installed, SOPs developed and implemented, etc.)</p>
<p><b>Materials Management Program</b></p>	<p><b>The municipality will develop procederes for responsibly managing chemicals, such as fertilizers, solvents, paints, cleaners, and automotive products. In addition, the municipality will develop procedures for the use of alternative products that will prevent their hazardous</b></p>	<p><b>The number of facilities storing hazardous materials or wastes;</b></p> <p><b>The frequency of inspection and maintenance visits to storage facilities;</b></p> <p><b>The number of personnel trained in hazardous material and waste handling and</b></p>

	<p>counterparts from being disposed of improperly and contaminating storm water.</p> <p>This program will include practices for managing materials by improving the maintenance of machinery, establishing material storage and inventory controls, improving routine cleaning and inspection of facilities where materials and wastes are stored or processed, maintaining organized workplaces, and educating employees.</p>	<p>storage; and</p> <p>The amount of hazardous waste generated by municipal operations.</p>
<p><b>Operations and Maintenance (O &amp; M) Programs</b></p>	<p>The municipality will develop an inventory of all facilities and review this inventory annually and update as necessary. In addition, the municipality will develop written operations and maintenance procedures for the municipal activities listed below:</p> <ul style="list-style-type: none"> <li>a. Parks and open spaces- <ul style="list-style-type: none"> <li>i. Develop procedures to address the proper use, storage, and disposal of pesticides, herbicides, fertilizers, lawn clippings and other vegetative waste.</li> <li>ii. Develop procedures for management of trash containers at parks and for</li> </ul> </li> </ul>	<p>Inventory of municipal facilities;</p> <p>The number of operation and maintenance procedures developed;</p> <p>The frequency of inspection and maintenance visits to facilities;</p> <p>The number of personnel trained O &amp; M procedures; and</p> <p>The number of educational materials distributed to municipal employees with information of O &amp; M procedures.</p>

	<p>placing signage in areas concerning the proper disposal of pet wastes.</p> <p>b. Buildings and facilities where pollutants are exposed to stormwater runoff-</p> <p>i. Develop procedures for the use, storage, and disposal of petroleum products and other potential stormwater pollutants</p> <p>ii. Develop management procedures for dumpsters and other waste management equipment.</p> <p>iii. Develop SPCC Plans where applicable.</p> <p>c. Vehicles and Equipment-</p> <p>i. Develop procedures for the storage and maintenance of municipal vehicles.</p> <p>ii. Develop procedures for fueling areas</p> <p>iii. Develop procedures to ensure that vehicle wash waters are not discharged to the municipal storm sewer system or to surface waters.</p> <p>d. Infrastructure Operations and Maintenance-</p> <p>i. Develop a program detailing the activities and</p>	
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	<p>procedures to maintain MS4 infrastructure to reduce the discharge of pollutants from the MS4</p> <ul style="list-style-type: none"> <li>ii. Develop schedule for the frequency of routine cleaning and inspections that will ensure that no catch basin at anytime will be more than 50 percent full.</li> <li>iii. Develop procedures for sweeping and/or cleaning streets, and municipal-owned parking lots.</li> <li>iv. Develop procedures for proper storage and disposal of catch basin cleanings and street sweepings waste to ensure it does not discharge to receiving waters.</li> </ul>	
<p><b>Spill Response and Prevention Program</b></p>	<p>The Municipality shall develop procedures for spill response and prevention plans that shall state how to stop, contain, cleanup, dispose of contaminated materials, and train personnel to prevent and control future spills. This plan shall be applicable to all sites where hazardous materials are stored or used.</p> <p>Municipal employees will be trained at least once a year about spill response</p>	<p>Inventory of municipal facilities at risk for spills;</p> <p>The number of preventative maintenance procedures performed on tanks, valves, pumps, pipes, and other equipment;</p> <p>Development of a spill response plan for municipal facilities;</p> <p>The number of personnel trained in spill response and prevention techniques; and</p>

	<p>and prevention techniques. Records of the trainings offered to employees will be retained for a period of 5 years.</p>	<p>The number of educational materials distributed to municipal employees with information of spill response and prevention plans.</p>
<p><b>Staff Training Program</b></p>	<p>The Municipality will develop a training and education component of the operations and maintenance program designed to reduce pollutant runoff from municipal operations.</p> <p>Municipal employees who are directly involved in potentially polluting activities such as materials management would receive both general stormwater and targeted BMP training tailored to their activities. This will increase the likelihood that receiving waters and the storm drain system will be protected from inadvertent discharges and spills.</p> <p>The trainings will be provided at least once a year, on good housekeeping practices, spill response and prevention techniques and material management of hazardous and non-hazardous substances.</p>	<p>The number of personnel trained in spills response and prevention techniques, good housekeeping practices and materials and waste management (hazardous and non-hazardous).</p>
<p><b>Stormwater Pollution Prevention Programs (SWPPP)</b></p>	<p>Develop and fully implement a SWPPP for the following municipality-owned or operated facilities: maintenance</p>	<p>Inventory of municipal facilities that require SWPPP;</p>

	<p>garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater. SWPPPs shall include all elements required in Part 2.4.7.2 (b)(i-vi) of 2016 GP.</p>	<p>Development of SWPPP for municipal facilities;</p> <p>The frequency of inspections visits at municipal facilities;</p> <p>The number of personnel trained in SWPPP; and</p> <p>The number of educational materials distributed to municipal employees with information of spill response and prevention plans.</p>
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**1.3.10 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:

**Hon. José R. Román Abreu**

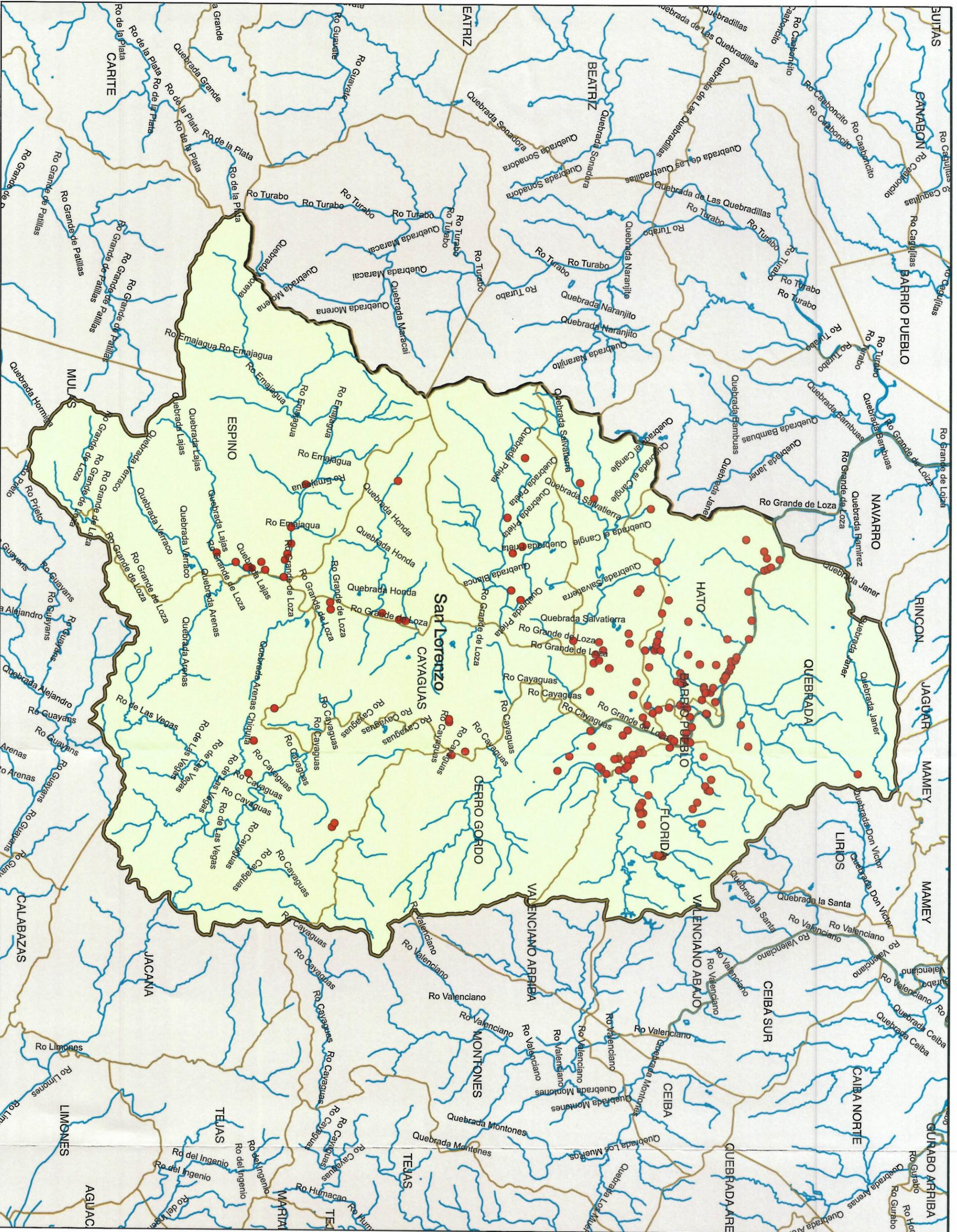
Print Name of Mayor/Elected Official:

Title: **Mayor of San Lorenzo**

Date: 26 Sept 2016

## **APPENDIX A – MAPS**





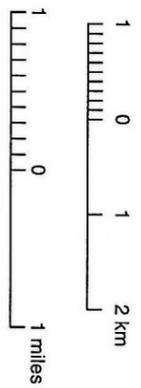
**Figure 2**  
**Outfalls Location Map**  
 Notice of Intent - NPDES MS4 PRR040000  
 Municipality of San Lorenzo



- Legend**
- Outfalls
  - Wards
  - Waterbodies
  - ▭ Municipality
  - ▭ San Lorenzo

Source:  
 US Census Bureau TIGER data, 2010 Census

Projection:  
 State Plane Coordinate System - Puerto Rico  
 Horizontal Datum - NAD83



## **APPENDIX B – ELIGIBILITY DETERMINATION**



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

Caribbean Ecological Services

Field Office

P.O. Box 491

Boqueron, PR 00622

JUL 27 2016

In Reply Refer To:

FWS/R4/CESFO/72-129-GEN

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

Re: San Lorenzo NPDES MS4-2014  
Permit

Dear Mrs. Pacheco:

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

The Municipality of San Lorenzo, Puerto Rico is requesting coverage under the 2014 NPDES (National Pollutant Discharge Elimination System) General Permit for the MS4 (Municipal Separate Storm Sewer System). The MS4 collected storm water discharge into the Rio Grande de Loiza, the Quebrada Prieta and the Quebrada Hondo.

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

Sincerely yours,

  
Edwin E. Muñiz  
Field Supervisor

agcs

cc  
Municipality of San Lorenzo  
EPA, San Juan



MUNICIPIO AUTÓNOMO DE SAN LORENZO  
*Oficina de Planificación y Desarrollo Económico*  
PO Box 1289 San Lorenzo, PR. 00754  
(787) 736-3511 ext. 274

**CERTIFICATION**

The Autonomous Municipality of San Lorenzo 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 San Lorenzo 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 is therefore 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).

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Name

  
\_\_\_\_\_  
Position