



MUNICIPALITY OF ARROYO

PO Box 477
Arroyo, PR 00714-0477

Honorable Basilio Figueroa De Jesús
Mayor

NOTICE OF INTENT

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

GENERAL PERMIT

**U.S. ENV. PROT. AGENCY
2009 NOV 19 PM 1:56
CEPD-DIRECTOR OFFICE**

MUNICIPALITY OF ARROYO

**EPA REGION 2
PUERTO RICO**

November 2009



Estado Libre Asociado de Puerto Rico
Gobierno Municipal de Arroyo

Apartado 477
Arroyo, Puerto Rico 00714

Oficina del Alcalde

El Nuevo Arroyo
el Pueblo Nuevo

October 15, 2009

Carl Axel P. Soderberg
Director
Caribbean Environmental Protección Division
United Status Environmental Protección Agency
Centro Europa Building, Suite 417
1492 Ponce De León Ave.
San Juan, Puerto Rico 00907

Notice of Intent for General Permit for Discharges from Small Municipal Separate Storm Sewer Systems

Dear Mr. Soderberg:

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et.seq.), except as provided in Part 1.3 of this permit, operators of small municipal separate storm water systems, located in the area specified in Part 1.1, Commonwealth of Puerto Rico, the Municipality of Arroyo must submit a Notice of Intent in accordance with Part II, to obtain the authorization to discharge pollutants to waters of he United States in accordance with the conditions and requirements set forth herein.

If you need more information, you can contact Mr. Luis Valentín Sánchez, Director of the Department of Transportation and Public Works at (787) 839-3489.

Sincerely,

HON. BASILIO FIGUEROA DE JESUS
Mayor

Construyendo el Nuevo Arroyo... Hoy

Tels. (787) 839-2030 • (787) 839-3945 • (787) 839-3835 • (787) 839-3500 • Fax (787) 839-3840



Hon. Basilio Figueroa de Jesús
ALCALDE

Estado Libre Asociado de Puerto Rico
Gobierno Municipal de Arroyo

Apartado 477
Arroyo, Puerto Rico 00714

Oficina del Alcalde

El Arroyo
Pueblo Nuevo

CERTIFICATION

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a systems designed to assure that the Municipality of Arroyo properly gather and evaluate the information submitted by ECG. Based on my inquiry of the person or persons who managed 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.

HON. BASILIO FIGUEROA DE JESUS
Mayor

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EXECUTIVE SUMMARY

The content of this report was created based on the research performed with local environmental agencies in Puerto Rico and information gathered thru meetings with community representatives from the Municipality of Arroyo.

The Storm Water Notice of Intent presented in this report includes general information on the permittee, the nature of their business, a description of the characteristics and hydrology of the Arroyo municipality, person(s) responsible for implementing the plan and the MS4 main users.

INTRODUCTION

In 1987 the Environmental Protection Agency (EPA) amended the Clean Water Act (CWA), requiring the implementation of a two phase program for addressing storm water discharges. On December 9, 1999 EPA published the second phase of the storm water regulations (64 FR 68721). As outlined in these regulations, municipal separate storm sewer systems (MS4's) serving populations of more than 50,000 and/or processing a density of 1,000 people per square mile are required to obtain a Phase II National Pollutant Discharge Elimination System (NPDES) Permit. The EPA is requesting municipal storm sewer operators to apply for a NPDES permit as required by 40 CFR 122.33.

The Municipality of Arroyo is required to submit an application for permit coverage. We hereby present to the EPA, Arroyo's Notice of Intent (NOI) to obtain the general NPDES permit for the municipality's storm sewer system discharge.

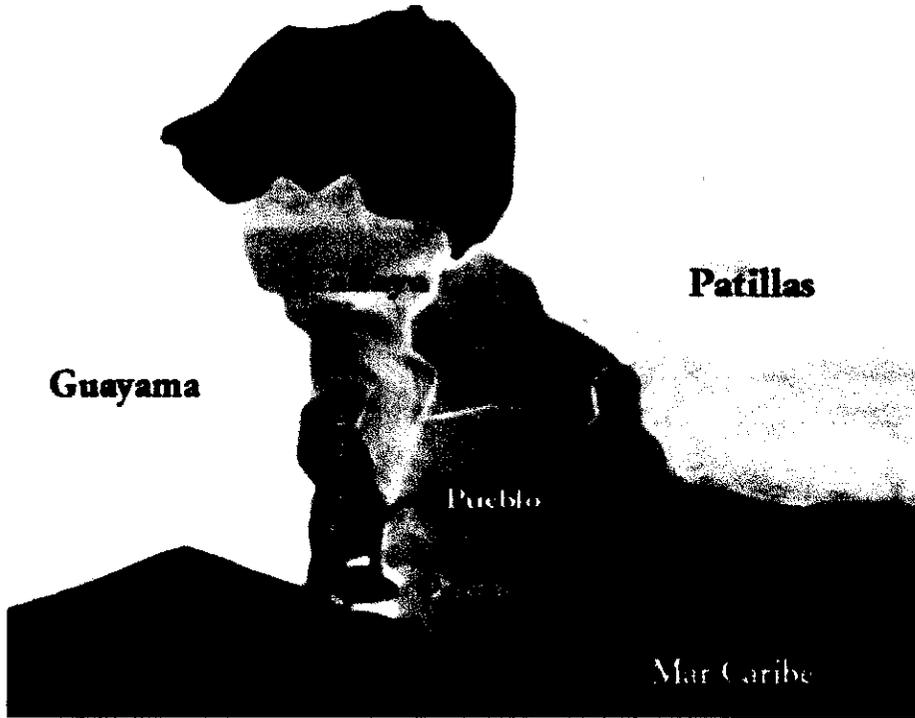
PERMITTEE GENERAL INFORMATION

The Arroyo MS4 is currently owned and operated by the municipality under the direction of its mayor, Hon. Basilio Figueroa De Jesús. The Department of Transportation and Public Works, DTPW, will be the office responsible to implement and uphold the proposed storm water program. Mr. Luis Valentín Sánchez, director of DTPW, will be the person responsible for assuring the program maintains its proposed schedule.

The Municipality of Arroyo is located in the southeast part of the island at Latitude 17° 58' 04" North and Longitude 66° 03' 42" West. It has a territorial extension of 35.64 square miles. Arroyo is bounded on the north with the Patillas Municipality; south with the Caribbean Sea; west with Guayama Municipality; and on the east with Patillas Municipality.

Arroyo possesses a population of 19,117 inhabitants, according to the 2000 Census. Population density per square mile of land area is 1,271.

Arroyo is divided into six (6) wards: Ancones, Guásimas, Palmas, Pitahaya, Yaurel and Pueblo. Figure 1 below, shows the Arroyo's wards distribution.



The soil associations of Arroyo are Pandura-Rock land-Patillas Association, Coamo-Guamani-Vives Association and Descalabrado-Guayama.

It corresponds to the sub-region Patillas Ponce Floodplain that is located in the region known as South Coastal Plain. It is a very dry area, although its alluvial plains are productive, thanks to artificial irrigation system.

Figure 2 depicts the municipality's hydrology.

ACTIVITIES SUBJECT TO NPDES PERMIT APPLICABILITY

The municipality of Arroyo operates a municipal separate storm sewer system located in the urban area of the Municipality.

The municipal urban area has a population of 7,244 and a territorial extension of approximately 1.22 square miles.

The main users of the Arroyo MS4 are residential communities. Approximately 4 schools, 1 hospital and 2 industrial lots have been identified within the delineated urban area of Arroyo.

The primary pollutant sources of the Arroyo MS4 are sediments and sanitary overflows.

NAME, MAILING ADDRESS, AND LOCATION OF FACILITY FOR WHICH THE APPLICATION

Municipality of Arroyo
PO Box 0477
Arroyo, P.R. 00714-0477
Tel: 787-839-3500

STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE

The SIC Code established by the federal Office of Management and Budget for public administration for local government activities is 9199.

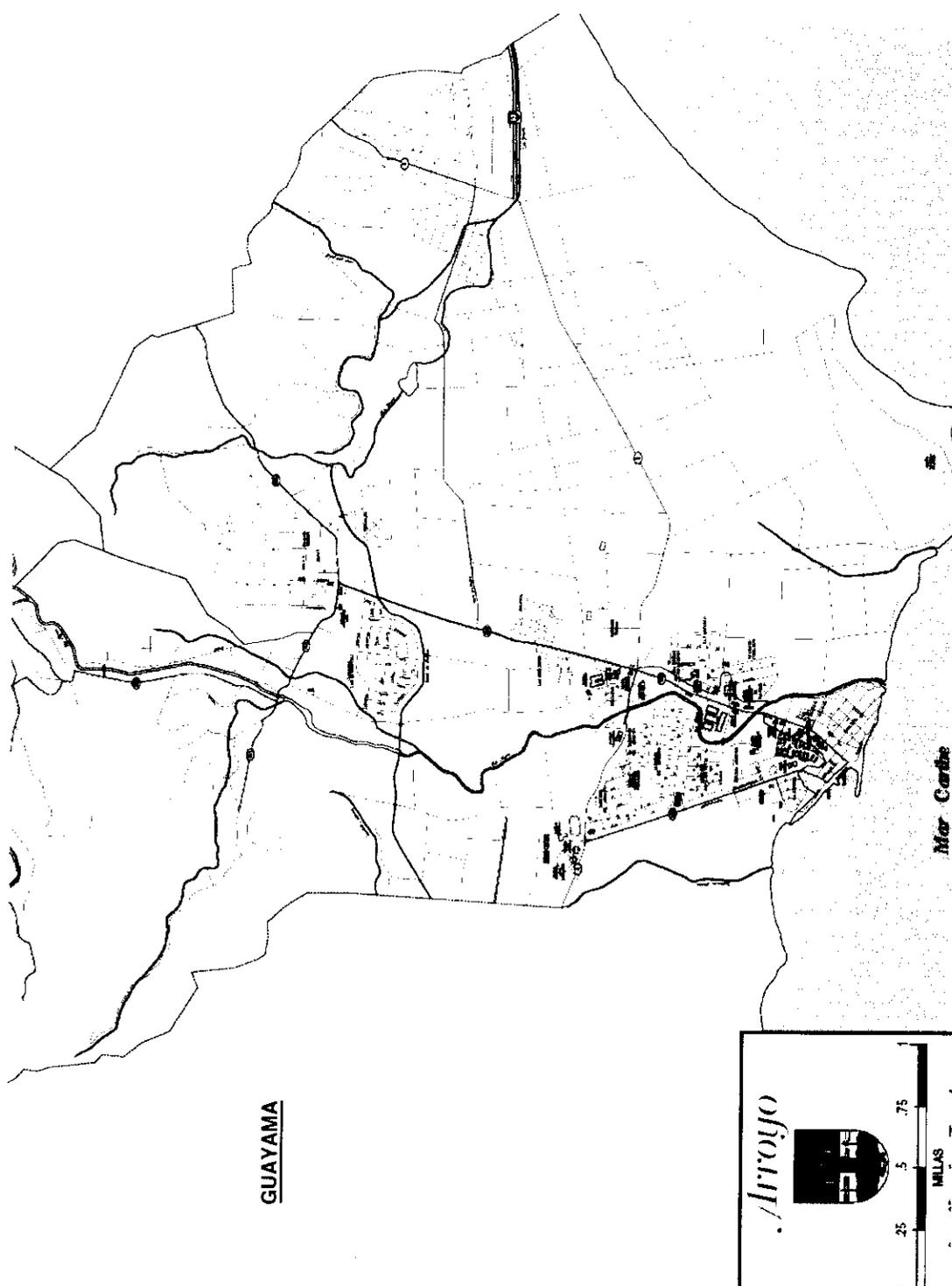


FIGURE 2: ARROYO'S HIDROLOGY MAP

OPERATOR NAME (S), ADDRESS (ES), TELEPHONE NUMBER (S)

Mr. Luis Valentín Sánchez
Director, Department of Transportation and Public Works
PR-3, Km. 1.29, Hm. 05
Arroyo, Puerto Rico
(787) 839-3500

PERMITS OR CONSTRUCTION APPROVALS RECEIVED OR APPLIED UNDER THE FOLLOWING PROGRAMS:

Resource Conservation and Recovery Act

None

Underground Injection Control under the Safe Drinking Water Act

None

NPDES Program under the Clean Water Act

None

Nonattainment Program under the Clean Air Act

None

National Emissions Standards for Hazardous Air Pollutants Preconstruction Approvals under the Clean Air Act

None

Ocean Dumping Permits under the Marine Protection Research and Sanctuaries Act

None

Dredge or Fill Permits under Section 404 of the Clean Water Act

None

Puerto Rico Environmental Quality Board (DS-1)

Permit to Transport Non-Hazardous Solid Wastes

Used Oil Generator Permit

Puerto Rico Department of Natural Resources and the Environment

Permit to restore and clean water bodies.

STORM WATER SEWER MAP

The Municipality of Arroyo Storm Water Sewer System in the urban area in general consist of a series of open channel culverts and catch basins, located within the right-of-way of municipal roads, interconnected by underground concrete pipes (20", 24" and 36") which normally discharge to the Nigua River which also discharges into the Caribbean Sea. The Nigua River crosses the municipality from north to south and across the Pueblo Ward. The Urban Area of the Arroyo Municipality is mainly part of one watershed that discharges either directly or through tributaries into Nigua River.

Included in Figure 3, is a topographic map depicting the runoff behavior of the Arroyo Urban Area.

ESTIMATED SQUARE MILEAGE SERVED BY THE MS4

The municipal urban area has a population of 7,244 and a territorial extension of approximately 1.22 square miles.

The municipality has a territorial extension of 35.64 miles of which 1.22 square miles are classified as urban area (for purposes of our MS4 management plan, only the delineated urban area is considered the service area of the municipality storm sewer system).

BEST MANAGEMENT PRACTICES

Minimum Control Measure 1 – Public Education and Outreach

- ❖ *Distribution of Storm Water Related materials: pamphlets, booklets, and flyers*
- ❖ *Web Page*

Minimum Control Measure 2 – Public Involvement and Participation

- ❖ *Annual Cleanup (rivers, streams, catch basins)*
- ❖ *Reforestation Programs*

Minimum Control Measure 3 – Illicit Discharge Detection and Elimination

- ❖ *Storm sewer system map*
- ❖ *Program to detect, identify and eliminate illicit discharges*
- ❖ *Program to detect, identify and eliminate illegal dumping*
- ❖ *Program to detect, identify and eliminate wastewater connections to the storm drain system*
- ❖ *Program to detect, identify and eliminate sanitary sewer overflows*
- ❖ *Program to detect, identify and eliminate failing septic systems*

Minimum Control Measure 4 – Construction Site Storm Water Runoff Control

- ❖ *Site Inspection and Enforcement*
- ❖ *Require Electronic copies of Sanitary and Sewer Systems Layouts*
- ❖ *Inspection of Sanitary Sewer Connections*
- ❖ *Inspection and Enforcement of Storm Water Requirements at Construction Sites*
- ❖ *Procedures for reviewing construction site plans*

Minimum Control Measure 5 – Post Construction Storm Water Management in Development and Re-development

- ❖ *BMP Inspection and Maintenance*

**Minimum Control Measure 6 – Pollution Prevention (Good Housekeeping for
Municipal Operations)**

- ❖ *Municipal Employees Training*
- ❖ *Street Cleaning Program*
- ❖ *Storm Drain System Cleaning Program*
- ❖ *Spill Response and Prevention Program*
- ❖ *Used Oil Recycling Program*
- ❖ *Recycling Program*
- ❖ *Vehicle Maintenance Program*

**PERSON RESPONSIBLE FOR IMPLEMENTING OR COORDINATING THE
APPLICANT'S STORM WATER MANAGEMENT PROGRAM**

Mr. Luis Valentín Sánchez
Director, Department of Transportation and Public Works
PR-3, Km. 1.29, Hm. 05
Arroyo, Puerto Rico
Tel: 787-839-3500