



Puerto Rico Environmental Quality Board

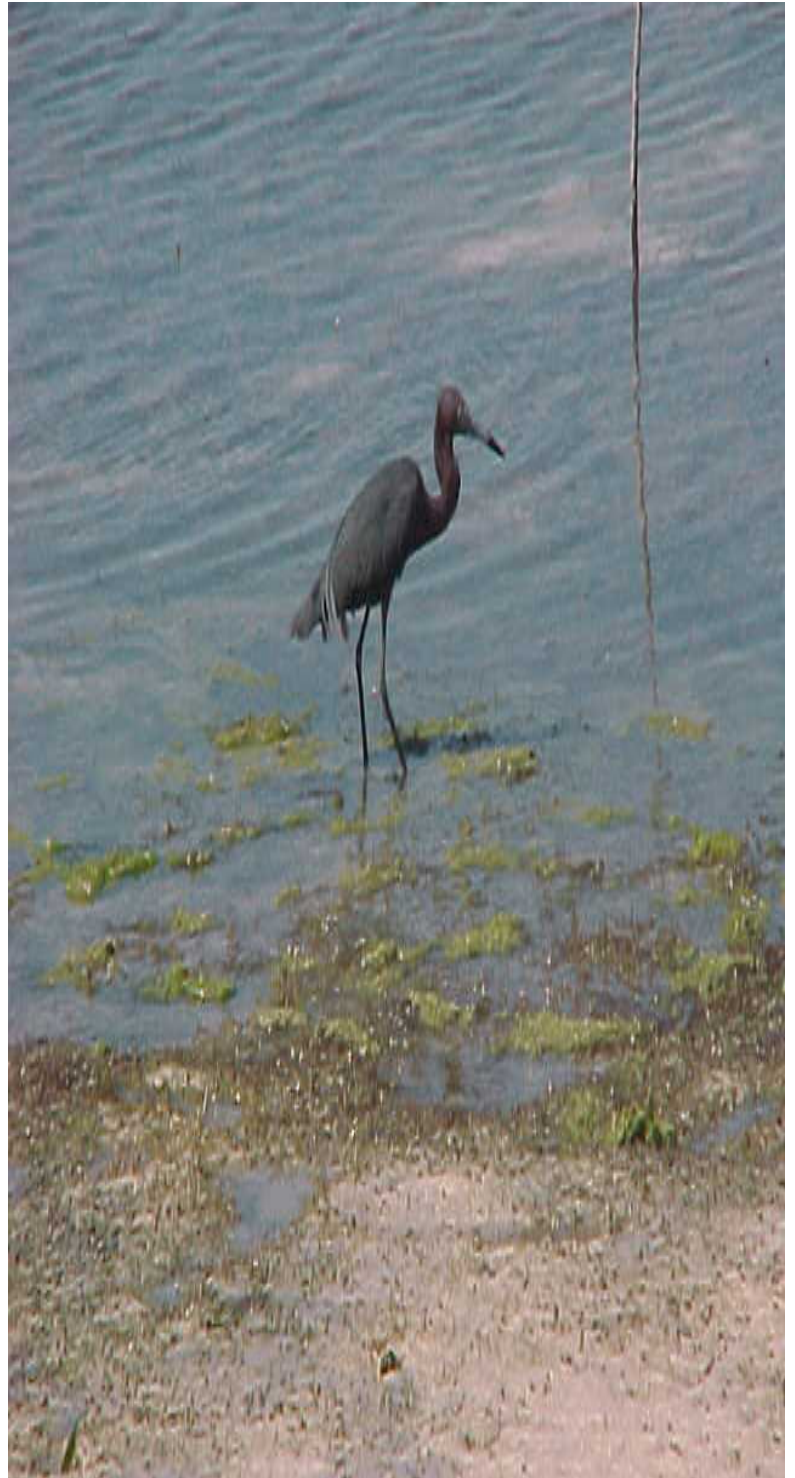
***PUERTO RICO WATER
QUALITY INVENTORY***

AND

**LIST OF IMPAIRED
WATERS**

**2002 305(b)/303(d)
INTEGRATED REPORT
*Final Version***

February 2003



Playita Rosada, Lajas/ Photo PREQB

**Waters Supporting the Designated Uses
2002 305(b)/303(d) Report**

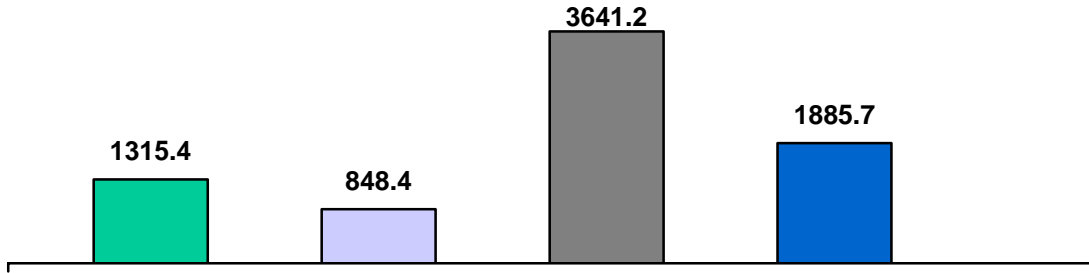
Aquatic
Life

Swimming

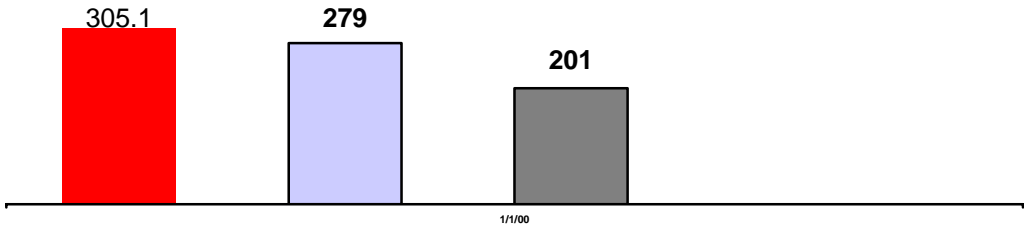
Fishing

Drinking
Water

Rivers & Streams Total miles in P.R. = 5,394



Coastal Waters Total miles in P.R. = 549.9



Lakes (reservoirs) Total acres in P.R. = 7,378

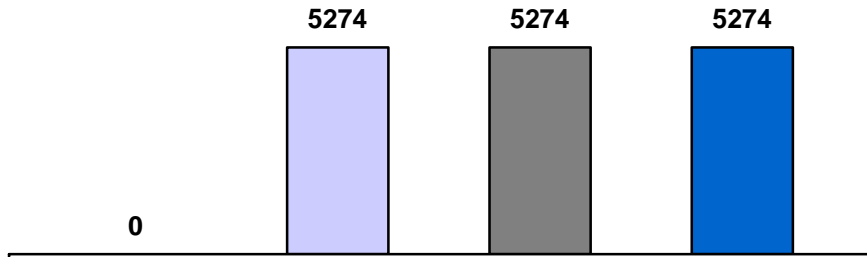


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PART I

EXECUTIVE SUMMARY

Part I EXECUTIVE SUMMARY

In Puerto Rico the local agency that has the legal responsibility to watch that our water bodies maintain the quality necessary to attain the uses designated in the local regulation is the Puerto Rico Environmental Quality Board (PREQB). The designated uses established in the Water Quality Standards Regulation (WQSR) are: **Primary Contact Recreation; Secondary Contact Recreation; Aquatic Life and Raw Source for Drinking Water**. For it, and to fulfill with the requirements established in the Clean Water Act (CWA), the PREQB, every two years, performs an assessment of the different water bodies to determine if they are supporting the applicable water quality standards. According with Sections 305(b) and 303(d) of the CWA, this report constitutes the Puerto Rico 305(b)/303(d) Integrated Report for fiscal year 2002, and includes a **Water quality inventory, the List of impaired waters (Appendix 1) and a Rotating Basin Monitoring Strategy (Appendix 2)**

Puerto Rico has 102 watersheds which account 5,394.2 streams miles and 3,843 estuary acres (river's mouths). There are a total of eighteen (18) lakes with a surface area of 7,378 acres, and twenty (20) lagoons with 4,768 acres of surface area. A total of 549.9 miles account for the shoreline and also, there are approximately 22,971 acres of tidal wetlands and 79,096 acres of freshwater wetlands.

Rivers & Streams

The water quality assessment for this 2002 cycle report indicated that 545.1 (10.1%) of river; miles were supporting all the designated uses. A total of 3,743.8 (69.4%) miles were recorded not assessed because there is not sufficient documentation to determine if any designated use is attained or impaired. These waters have been included to be address during the Assessment Monitoring Strategy schedule that the PREQB plans to implement during the next ten years. Also, there are 1,105.3 (20.5%) river miles in which one or more of the designated uses are impaired and TMDL should be implemented. These waters have been included in the 303(d) List.

More details of the water quality assessment for rivers are included in Part III of this report.

Lakes (reservoirs)

From the total of 7,324 acres of lakes assessed, PREQB found that the 18 reservoirs in Puerto Rico were impaired for the Aquatic Life use. The cause for the impairment was Low Dissolved Oxygen. The eutrophic conditions of our lakes were the primary reason that provokes that the lakes not met the water quality standard for Dissolved Oxygen. Sedimentation and high concentration of nutrients have been identified as two important factors related with the problem. Even thought that the primary use of lakes in Puerto Rico is for source of drinking water, the federal regulation requires that the water bodies must be assessed according with the uses established in the local regulation.

Is pertinent to establish that the lakes in Puerto Rico complied with the parameters used to assess the source of drinking water use.

TMDLs and other restoration measures will be implemented to achieve that these water bodies meet the water quality criteria for aquatic life.

Fifty four (0.7percentage) acres of lakes were not assessed. This corresponds to Lake Guineo and the monitoring in this reservoir was not possible due to access problems. Coordination with the P.R Electric Energy Authority will be made to be feasible the access to this lake. According with the federal guidance Lake Guineo has been classified in Category 3.

The tropic status determination this reports (Part IV) was based in OPSI/CEPIS criteria, but not correspond to the Puerto Rico's nutrients water quality standards established in the regulation. It has been included to illustrate the need of the development of nutrient water quality criteria for tropical waters. The Puerto Rico Environmental Quality Board wants to establish that for the next two years a nutrients criteria study will be performed using funds assigned by EPA to develop a local water quality standards for nutrients.

More details regarding the assessment of lakes are included in Part IV of this report.

Coastal Waters

From the total of 549.9 coastal waters miles, 318 (58%) miles supporting the designated uses; in 207.5 (38%) there is no sufficient data to make attainment determination and need to be monitored, and only 23.6 miles (4%) are impaired.

To improve the water quality assessment and restoration efforts in coastal recreational waters, on Fy-02 Puerto Rico began the implementation of two important projects: Beach Monitoring and Public Notification Program and Blue Flag Program. The goal of both programs is to improve the physical and water quality conditions in the most important beaches for the benefit not only for the people of Puerto Rico but also for visitors and tourists.

More details regarding the assessment of coastal waters have been included in Part V of this report.

Estuaries

The assessment of estuaries included in this report correspond to rivers mouths, the assessment information regarding the San Juan Bay Estuary System is included apart. In Puerto Rico, we have 3,843.12 acres of river mouths. Only 23.29 acres are monitored. For this 2002 water quality assessment the 23.29 (0.6%) monitored acres not meet the standards and 399.71 (10.4%) evaluated acres were supporting the uses. However, 3,420.12 (89%) need to be monitored because there is not documentation.

More details of the estuary assessment are included in Part VI of this report.

For those water bodies in which our assessment reflected that the water quality criteria are not achieving, the PREQB implements different strategies for the restoration of the water quality. In the last two years, the PREQB has been working in the development and implementation of several projects to achieve a best management for the water resources. Some of these projects are:

- ❖ The Implementation of the Watersheds Restoration Action Plan.
- ❖ The Development of Total Maximum Daily Loads in the Impaired Basins

In addition, for those segments in which there are not sufficient information or data to make a good water quality assessment, a schedule for Assessment Monitoring Strategy, based on a rotating basin approach will be established.

The commitment of the Commonwealth of Puerto Rico and the PREQB it is to join efforts with the agencies related with the protection of the environment to achieve that our bodies maintain the necessary water quality conditions for the beneficial use for the people of Puerto Rico and for the propagation and protection of the desirable species.

**Esteban Mujica Cotto; Esq
Chairman**

**MONITORING STRATEGY, ASSESSMENT METHODOLOGY
AND LISTING CRITERIA**

Part II Monitoring Strategy, Assessment Methodology and Listing Criteria

Chapter 1: WATER QUALITY STANDARDS REGULATION

A. Background

Table 1

| TOPIC | VALUE |
|--|-----------------------|
| State Population(1) | 3,800,000 |
| State Surface Area | 3,420 mi ² |
| Total miles of rivers and streams | 5,394.2 |
| - Miles of perennial rivers/streams (subset) | 4,538.9 |
| - Miles of intermittent (non perennial) streams (subset) | 845.9 |
| Number of lakes/reservoirs/ponds/lagoons | |
| -Lakes | 18 |
| - Lagoons | 20 |
| - Number of significant publicly owned reservoirs | 18 |
| Acres of lakes/reservoirs/ponds/lagoons | 10,887 |
| - Acres of significant publicly owned reservoirs | 7,378 |
| Acres of estuaries (2) | 3,844 |
| Miles of ocean coast | 549.9 |
| Miles of freshwater wetlands | 79,096 |
| Miles of tidal wetlands | 22,971 |

(1) = Official dates from the 2000 Census are reported by the Puerto Rico Planning Board.

(2) = Correspond to mouths of rivers and not include the P.R. San Juan Bay Estuary System

B. Designated Uses, Total Waters and Applicable Standards

The Puerto Rico Environmental Quality Board (PREQB), as the State environmental agency, complied with the mandate established by the Environmental Public Policy Act (Law Number 9) of June 18, 1970, as amended. As such, PREQB promulgated the Puerto Rico Water Quality Standards Regulation (PRWQSR as amended in 1990) which has the goal to it preserves, maintain and enhance the quality of the waters of Puerto Rico to assure that they are compatible with the social and economic needs of the Commonwealth of Puerto Rico. The purposes set forth in the current PRWQSR are:

1. Designate the use for which the quality of the waters of Puerto Rico shall be maintained and protected;

2. It prescribes the water quality standards required to sustain the designated uses;
3. Identify other rules and regulations applicable to sources of pollution that may affect the quality of waters subject to the PRWQSR; and,
4. It prescribes additional measures necessary for implementing, achieving and maintaining the prescribed water quality.

The PREQB has established the designated uses for all waters in Puerto Rico for the protection and propagation of fish, shellfish and wildlife, for recreation and raw source of drinking water, as well as standards to protect those uses. The 2002 Integrated Report has evaluated how the waters of Puerto Rico comply with the different designated uses whether or not they it are attained. The designated uses included in the PRWQSR are as follows:

- CLASS SA - Coastal and estuarine waters of high quality and/or exceptional ecological or recreational valued whose existing characteristics should not be altered except natural by cause, in order to preserve the existing natural phenomena.
- CLASS SB - Coastal and estuarine waters designated for primary and secondary contact recreation, and propagation and preservation of desirable species.
- CLASS SC - Coastal and estuarine waters designated for secondary contact recreation, propagation, and preservation of desirable species.
- CLASS SD - Surface waters designated as to raw source of public water supply, propagation and preservation of desirable species, and for primary and secondary contact recreation.
- CLASS SE - Surface waters and wetlands of exceptional ecological valued whose existing characteristics should not be altered in order to preserve the existing natural phenomena.
- CLASS SG1 -Ground waters designated as sources of drinking water supply and for agricultural uses, including irrigation. Also, included under this class are those ground waters that flow into waters, which support ecological communities of exceptional ecological it valued in accordance with Sections 2.1.1 and 2.2.2 of the PRWQSR.
- CLASS SG2 -Ground waters which, due to the high total dissolved solids concentration (concentrations greater than 10,000 mg/l), are not fit

as sources of drinking water supply even after treatment. There is not water quality standards for this uses.

Table 2 summarizes the total waters assessed in this 2002 305(b)/303(d) Integrated Report by water type and individual uses classification.

Table 2: Total Waters Classified by Uses

| USE | RIVERS (miles) | LAKES & LAGOONS (acres) | ESTUARIES (acres) | COASTS (miles) |
|------------------------------------|----------------|-------------------------|-------------------|----------------|
| PRIMARY CONTACT RECREATION (R1) | 5,390.6* | 12,146 | 3,843,12 | 384.8 |
| SECONDARY CONTACT RECREATION (R2) | 5,390.6* | 12,146 | 3,843.12 | 165.1 |
| AQUATIC LIFE SUPPORT (ALS) | 5,394.2 | 12,146 | 3,843.12 | 549.9 |
| RAW SOURCE OF DRINKING WATER (DWS) | 5,394.2 | 7,378** | N/A | N/A |

* = This total excludes 3.6 miles of underground stream segments.

** = These surface acres correspond to reservoirs surface area only.

N/A = Use not applicable to this water body type.

Water quality standards have been adopted in the **PRWQSR** to protect the applicable uses previously identified. The following tables summarize the existing standards used to perform the water quality assessment for the **2002 305(b)/303(d) Reports**. In addition, since December 1992, Puerto Rico has been under promulgation of the National Toxic Rule (NTR) and new water quality criteria are applicable to some of the parameters. Event though, according with the NTR, the applicable water quality standard for some metals in coastal waters is for dissolved concentration, the assessment was performed based on total concentration for these parameters, as established in the **PRWQSR**.

The maximum allowable concentrations for specific substances in coastal and estuarine waters (Class SB, SC), surface waters (Class SD), and ground waters (Class SG1, SG2) shall not exceed the following:

Table 3: Specific Water Quality Standards for Selected Parameters

| PARAMETER | SB AND SC WATERS (ug/l) | SD WATERS (ug/l) | SG1 AND SG2 WATERS (ug/l) |
|-----------------------------|-------------------------|------------------|---------------------------|
| Arsenic (As) ^{*,+} | 1.4 (HH)** | 0.18(HH)** | 0.022 (HH) |
| Barium (Ba) # | 1,000 | 1,000(DW) | - |
| Beryllium (Be) ⁺ | - | 0.068 (HH) | - |

| PARAMETER | SB AND SC WATERS (ug/l) | SD WATERS (ug/l) | SG1 AND SG2 WATERS (ug/l) |
|---|-------------------------|-------------------------|---------------------------|
| Boron (B) ⁺ % | 4,800 | 1,000 (AL) | - |
| Cadmium (Cd) ^{+,%} | 5.0 (AL) | Note 1 (AL) | 5.0 (DW) |
| Chromium (Cr) ⁺ | 300 (AL) | 50 (DW) | - |
| Copper (Cu) ⁺ | 50.0(AL) | Note 2 (AL) | - |
| Cyanide (CN) ⁺ | 1.0 (AL)** | 5.2(AL)** | - |
| Fluoride (F) [#] | 1,300 | 700.0 (DW) | - |
| Lead (Pb) ^{+,%} | 15.0 (AL) | Note 3 (AL) | 50.0 (DW) |
| Mercury (Hg) ⁺ | 0.025(AL)** | 0.012**AL) | - |
| Nickel (Ni) ⁺ | 8.3 (AL) | Note 4 (AL) | - |
| Nitrate + Nitrite (as N) | - | 10,000.0 (DW) | - |
| Nitrogen (NO ₃ ,NO ₂ ,NH ₃) | 5,000.0 | - | - |
| Selenium (Se) ⁺ | 10.0 (AL) | 5.0 (AL)* | - |
| Silver (Ag) ⁺ | 2.0 (AL) | 2.0 (AL) [@] | - |
| Sulfide (Undissociated H ₂ S) | 2.0 (AL) | 2.0 (AL) | - |
| Zinc (Zn) ⁺ | 50.0 (AL) | 50.0 (AL) ^{@@} | - |

AL = Standard based on protection of the water body for the propagation and preservation of desirable species dependant on water quality.

DW = Standard based on protection of the water body for use as a raw source of drinking water supply.

HH = Standard based on protection of the water body or existing aquatic life for reasons of human health.

Note 1 = Concentration in ug/l must not exceed the numerical value given by $e^{(0.7852 [\text{Ln Hardness}] - 3.490)}$.

Note 2 = Concentration in ug/l must not exceed the numerical value given by $e^{(0.8545 [\text{Ln Hardness}] + 1.465)}$.

Note 3 = Concentration in ug/l must not exceed the numerical value given by $e^{(0.1.2730 [\text{Ln Hardness}] - 6.705)}$.

Note 4 = Concentration in ug/l must not exceed the numerical value given by $e^{(0.8460 [\text{Ln Hardness}] + 1.1645)}$.

**= Applicable NTR criteria.

* = Identifies a substance that may be a carcinogen.

+ = Identifies a priority pollutant.

= Identifies a substance whose numeric standard for coastal waters will be evaluated to determine the feasibility of eliminating it.

% = In cases where the surface water body is used as a source of drinking water supply, the water quality standard for the indicated substance shall not exceed the drinking water standard upstream from the water intake.

@ = NTR criteria is applicable for hardness below 65 mg/l.

@@ = NRT criteria is applicable for hardness below 40 mg/l.

Table 4: Water Quality Standards for Specific Classifications

| PARAMETER | SA | SB | SC | SD | SE |
|-------------------------------------|--------|---|---|----------------------|----------------------|
| Dissolved Oxygen | Note 1 | Not less Than 5 mg/L | Not Less Than 4 mg/L | Not less Than 5 mg/L | Note 1 |
| Fecal Coliforms | Note 1 | 200 col/100 ml | 2,000 col/100 ml | 2000 col/100 ml | Note 1 |
| Total Coliforms | | - | 10,000 col/100 ml | 10,000 col/100 ml | Note 1 |
| Enterococcus | Note 1 | 35 col/100 ml | - | - | Note 1 |
| pH | | 7.3-8.5 | 7.3-8.5 | 6.0-9.0 | Note 1 |
| Color | Note 1 | Shall not Be Altered except by natural causes | Shall not Be Altered except by natural causes | 15 Pt-Co. | Note 1 |
| Turbidity | Note 1 | 10 NTU | 10 NTU | 50 NTU | Note 1 |
| Taste and Odor Producing Substances | | Shall not Be present | Shall not Be present | Shall not Be present | Note 1 |
| Sulfates | Note 1 | 2800 mg/L | 2800 mg/L | 250 mg/L | Note 1 |
| Surfactants as MBAS | | 500 ug/L | 500 ug/L | 100 ug/L | Shall not be present |
| Total Dissolved Solids | Note 1 | - | - | 500 mg/L | Note 1 |
| Total Phosphorous | Note 1 | - | - | 1 mg/L* | Note 1 |
| Chlorides | Note 1 | - | - | 250 mg/L | Note 1 |
| Other Pathogenic Organisms | Note 1 | - | - | Free of Pathogens | Note 1 |
| Total Ammonia | - | - | - | 1mg/L @ | - |

* = Applicable in SD waters upstream from reservoirs, in segment with water in takes or estuarine waters.

@ = Total Ammonia standard shall not exceed 1 mg/l upstream from the points given by coordinates for the following segments:

| | |
|------------------|-------------------------|
| Río Cibuco | 18° 21' 13"/66° 20' 07" |
| Río Hondo | 18° 26' 13"/66° 09' 36" |
| Río Guaynabo | 18° 22' 32"/66° 07' 59" |
| Río Bayamón | 18° 24' 39"/66° 09' 09" |
| Río Piedras | 18° 24' 34"/66° 04' 10" |
| Quebrada Blasina | 18° 23' 27"/65° 58' 28" |
| Río Caguitas | 18° 15' 11"/66° 01' 26" |
| Río Bairoa | 18° 15' 28"/66° 02' 13" |
| Río Chico | 18° 59' 16"/66° 00' 18" |
| Río Coamo | 18° 03' 52"/66° 22' 10" |
| Río Guayanilla | 18° 00' 50"/66° 47' 04" |
| Río Guanajibo | 18° 07' 18"/67° 03' 56" |

Note 1 = No parameter, whether or not considered in this classification, shall be altered in concentration, except by natural causes. Substances reactive with methylene blue shall not be present.

Chapter 2: Water Quality Monitoring And Assessment

A. Monitoring Strategy

To perform the water quality assessment and support the results the PREQB uses the information on water quality obtained from the different ambient water quality monitoring networks and other water quality data available such as discharges monitoring reports from point sources and special water quality studies implemented. The PREQB implements five (5) routine monitoring networks that provide physical, chemical and biological water quality data from the different water bodies. These are:

1. **Surface Water Monitoring Network:** implemented by the USGS under a cooperative agreement with the Commonwealth of Puerto Rico. It includes 58 water quality sampling stations in rivers and streams, and 6 lakes (reservoirs).
2. **Clean Lakes Monitoring Network:** Implemented by PREQB in 12 lakes (reservoirs).
3. **Coastal Monitoring Network:** Implemented by PREQB in 98 coastal sampling stations.
4. **Non point Sources Network:** It is a watersheds monitoring, on a limited basis through the Non point Source Management Program, specifically in the Río Grande de Loíza, Río La Plata and Río Grande de Arecibo basin. There are 20 sampling stations among the three watersheds.
5. **Groundwater Monitoring Network:** It was limited to 100 drinking water wells located in different municipalities and are sampled once a year for pathogens, nitrates, metals, VOC's, SVOC's and pesticides.

In addition, PREQB performs special monitoring to investigate events of contamination such as: fish mortality, hydrocarbons leaks and spills, and illegal discharges to obtain water quality data.

All sampling and analytical activities are subject to a strict Water Quality Assurance Program Plan, coordinated through the Quality Assurance Control Officer of the Water Quality Area and the Division of Environmental Science and Assessment of EPA Region II. Each monitoring initiative also had its corresponding Quality Assurance Project Plan (QAPP) duly approved by PREQB, United States Geological Survey (USGS), and EPA personnel.

All samples are collected, preserved, transported and analyzed in accordance with the protocols established in the corresponding Quality Assurance Project Plan. The purpose and goals of PREQB's fixed monitoring station programs are:

1. Provide data on water quality conditions.
2. Provide information on to how water quality may be impaired by different sources and categories of pollution;

3. Determine compliance with the water quality standards applicable to different designated uses established in the PRWQSR; and,
4. Evaluate the effectiveness of pollution control measures implemented in the water bodies being monitored.

The field and analytical data generated are evaluated for compliance with quality control and quality assurance protocols, EQB entered the data into the EPA Store and Retrieval (STORET) database and in others local database. The data generated from the stations sampled by the PREQB are available in the STORET system. Data generated from the 58 stations located in rivers and six (6) reservoirs sampled and analyzed by the USGS are not available through STORET. Data from the USGS are made available yearly through internet (www.usgs.gov) or hardcopy files from the Caribbean Field Office. Statistical analyses for the assessment of these data was performed manually by PREQB technical personnel.

Surface Water Monitoring Network

The Surface Water Monitoring Network consists of 58 fixed stations located in 25 river basins in the north, south, east, and west hydrographic regions of *Puerto Rico*. The USGS collects samples on a quarterly basis and analyses these samples for a specific set of parameters. The samples collected are analyzed for the following parameters:

| | |
|----------------------|------------------------|
| Flow | Fecal Coliforms |
| Specific Conductance | Fecal Streptococcus |
| Temperature | Organic Nitrogen |
| Alkalinity | Ammonia Nitrogen |
| Dissolved Oxygen | Nitrate + Nitrite |
| Turbidity | Suspended Solids |
| PH | Chemical Oxygen Demand |
| Hardness | Phosphorus |

Analyses for the detection of phenols, cyanide and methylene blue active substances, *as well as the following metals*, are performed twice a year:

| | | |
|---------|----------|-----------|
| Arsenic | Mercury | Iron |
| Barium | Selenium | Zinc |
| Cadmium | Silver | Manganese |
| Lead | Boron | Copper |

Additional samples are collected for dissolved solids analyses which include:

| | |
|-----------|-----------|
| Calcium | Magnesium |
| Sodium | Potassium |
| Carbonate | Sulfate |
| Silica | Fluorides |
| Chlorides | |

Samples are collected and analyzed for the following pesticides at selected stations once a year:

| | |
|----------------|----------------------|
| DDD | DDE |
| DDT | Diazinon |
| Endrin | Endosulfan |
| Heptachlor | Ethion |
| Methoxychlor | Lindane |
| Parathion | Methylparathion |
| Toxaphene | Naphtalene Polychlor |
| Aldrin | Mirex |
| Dieldrin | Chlordane |
| Heptachlor | Malathion |
| Methyltrithion | Perthane |
| Total Trithion | |

Clean Lakes Monitoring Network

There are also monitoring stations located at all 18 ***“man-made lakes”*** (reservoirs) in Puerto Rico. The USGS under the Cooperative Agreement is responsible for the monitoring and analysis of six (6) of these 18 reservoirs namely: Guajataca, Garzas, Dos Bocas, Carite, Loíza and La Plata. The other twelve 12 lakes are monitored and analyzed by PREQB. Samples at lake monitoring stations are taken for the following parameters:

| | |
|-----------------------|------------------------------|
| Fecal Coliforms | Fecal Streptococcus |
| Temperature (profile) | Organic Nitrogen |
| Ammonia Nitrogen | Dissolved Oxygen (profile) |
| Nitrate + Nitrite | Turbidity |
| Hardness | Total Phosphorous |
| Chlorophyll “a” | Mercury |
| PH | Pesticides (organochlorides) |

Coastal Monitoring Network

The Permanent Coastal Monitoring Network consists of ninety-eight (98) stations distributed around the coastal zone of Puerto Rico. Of this total, thirty six (36) stations were specifically placed in areas designated as special bathing zones (beaches). Samples at coastal zones are collected and analyzed for the following parameters:

| | | |
|------------------|--------------|------------------------|
| Temperature | Copper | Turbidity |
| Dissolved Oxygen | Color | Manganese |
| Fecal Coliforms | Ammonia as N | Nitrate + Nitrite as N |

| | | |
|--------------------|----------|----------|
| Fecal Enterococcus | PH | Boron |
| Oil and Grease | Zinc | Salinity |
| Total Chromium | Cadmium | Lead |
| Mercury | Selenium | Nickel |

The sampling stations located in San Juan Beach Front (22 stations) are monitored monthly for bacteria, the other stations are monitored every two months

Non Point Sources Monitoring Network

The Non Point Sources Monitoring Network is implemented to support the Non point Source Management Program for Puerto Rico , and is still currently in-place in three of the most important watersheds of the Island: Río Grande de Loíza, Río La Plata and Río Grande de Arecibo.

The objective of this network is to implement intensive monitoring in areas with high levels of non point activities to assess water quality and evaluate the reduction of: fecal bacteria, nutrients, pesticides and sedimentation in lakes and basin streams, through the implementation of Best Management Practices (BMP's). This project is implemented in coordination with the Natural Resources Conservation Service (NRCS). A total of five (5) stations were established in Río Grande de Loíza, six (6) in Río La Plata and nine (9) in Río Grande de Arecibo. The parameters sampled include:

| | | |
|------------------------|---------------------------------|--------------------------|
| Nitrate + Nitrite as N | Total Phosphorous | Orthophosphates |
| Ammonia as N | Fecal Coliforms | Chlorophyll "a" |
| Temperature | Pesticides (organochlorides) | Dissolved Oxygen |
| TDS | PH | Settleable Solids TSS |

Groundwater Monitoring Network

The Groundwater Monitoring Network consists of selected drinking water wells owned by the Puerto Rico Aqueduct and Sewer Authority (**PRASA**), in which samples are taken prior to treatment thus representing ambient (aquifer) monitoring data. A total of 100 monitoring wells are monitored once a year to perform the groundwater assessment. The selection of monitoring wells took into consideration five specific factors as outlined in the Ground Water Priority System (September 1992) which was developed in accordance with the Puerto Rico Ground Water Protection Strategy approved by **EPA** in October of 1988. These factors are: (1) ground water dependance, (2) hydrogeological characteristics (vulnerability), (3) presence of potential pollution sources (vulnerability), (4) presence of critical or ecological sensitive areas, and (5) previous detection of contaminants in high concentrations. The parameters sampled in this network are: VOC's, SVOC's, Metals, Pesticides, Fecal Coliforms and Nitrates.

B. Segmentation Criteria and Assessment Units Definition

After a thorough evaluation of the 2002 Integrated Water Quality Monitoring and Assessment Report Guidance and the *Puerto Rico Water Quality Standards Regulation (PRWQSR)*, the PREQB has established the following criteria and methodology for making use support determinations of the waters of Puerto Rico.

1. Segmentation Criteria

Puerto Rico is an archipelago of four (4) islands. In the main island (Borinquen) we have 102 watersheds with different sizes and characteristics. From these watersheds there are twenty six (26) that are monitored. For the water quality assessment purposes, PREQB has classified all the watersheds (monitored and non monitored) in four (4) geographic regions and divided each one in segments or assessment units as follow:

- ❖ North Region: 92 assessment units (15 monitored and 77 non monitored).
- ❖ South Region: 107 assessment units (8 monitored and 99 non monitored).
- ❖ East Region: 176 assessment units (27 monitored and 149 non monitored).
- ❖ West Region: 96 assessment units (9 monitored and 87 non monitored).

On summary, for the 2002-305(b)/303(d) Integrated Report the Puerto Rico watersheds are divided in 59 monitored assessment units (segments) and 412 non monitored. Some of the criteria taken into consideration for the segmentation were:

- ❖ The location and the quantity of point sources in the watershed
- ❖ The location of water intakes and reservoirs in the watershed.
- ❖ The non point sources assessment performed in the watershed
- ❖ The information gathered regarding land uses

For segments with monitoring stations, the water quality assessment in each station will be indicative of the upstream waters across the whole segment until it reaches another segment. For unmonitored segments, supplementary information, such as: NPDES compliance evaluation for a period of two years, BMP's implementation by non point sources, fish kills or spill events and best professional judgment of technical personnel, was considerate to make impairments determinations.

Even when the water quality assessment for this report was based on the Assessment Units (AU) , PREQB wants to establish that, in order to be consistent with our watershed approach for the restoration of Puerto Rico waters, a water quality assessment summary for each watershed have been included as part of the 2002 Integrated Report.

The different **coastal segments** were established considering a distance of 1.5 miles to either side of monitoring stations, for a total of 3 miles for each monitored segment. When the distance between two (2) adjacent stations was less than 1.5 miles, the midpoint between them was taken as the boundary of the respective segments **between the two stations. The distance from the midpoint to the respective station** was given to each monitored segment. The monitored segments could be less than 3 miles if there was a change in use classification as specified under the **PRWQSR**, because of the different water quality standards applicable to each use classification. Coastal unmonitored segments located between monitored segments were also given a water body identification number and assessed separately. Each coastal segment will be an AU.

All **lakes** (reservoirs) and **lagoons** were considered single water bodies and identified with only one (1) water body identification number, irrespective of the number of monitoring stations located within the reservoir or lagoon. Each one will be an AU.

2. Assessment Units Definition

Even though, the PREQB currently uses a watershed approach to make a summary for the water quality assessment as part of the water bodies restoration strategy, and in order to be consistent with the Integrated Report's new guidance, the basic Assessment Unit (AU) has been defined as a segment of a water body described in the aforementioned Segmentation Criteria. Some of the criteria used for the AU's definition were:

- ❖ The AU may not span more than one water quality standard
- ❖ The AU represents a homogenous standard attainment
- ❖ The AU provides more feasible actions to the attainment of the water quality standards.

C. Assessment Methodology

The assessment of the water quality in Puerto Rico was performed taking into consideration the five (5) attainment categories established in the new EPA 2002 Integrated Report Guidance:

Category 1: Waters that attaining the water quality standard. These Segments include those waterdodies where monitoring and other technical data indicate that there are no use mpaiments.

Category 2: Waters attaining some designated uses, but no data is available to make attain determinations for the remaining uses. Additional monitoring will be implemented to document the assessment of the remaining uses.

Category 3: Waters with insufficient information to determine if any designated uses is attained. These segments are recorded as unassessed and will be monitored during the Rotating Basin Assessment Strategy Schedule.

Category 4b: Waters in which the designated uses are impaired or Threatened t is expected that there will meet the water quality standards for the next two years with the corresponding control measures.

Category 5: Waters in which the water quality standards are not attained (non support assessment units). These segments of water have been listed as impaired waters for the 303(d) List.

D. Water Quality Assessment by Designated Uses

The surface waters (rivers, lakes/lagoons, estuaries and coasts) for which data are available were assessed for the following designated uses: swimming (primary contact recreation), secondary contact recreation, aquatic life and raw source of drinking water supply.

1. Swimming (Primary Contact Recreation)

For **primary contact** recreation the use support evaluation was based on the geometric mean of a series of representative samples (at least five) taken sequentially of **fecal coliforms**. When the geometric mean was less or equal to 200 col/100mL and the 20% of the individual samples not exceed the value of 400 col/100mL the AU was classified support for swimming. Otherwise, if the segment fail to meet any of the above mentioned standards, the AU was assessed as non support.

2. Secondary Contact Recreation

For **secondary contact** recreation the use support evaluation was based on the geometric mean of a series of representative samples (at

least five) taken sequentially of fecal coliforms. When the geometric mean was less or equal to 2,000 col/100ml and the 20% of the individual samples not exceed the value of 4,000 col/100mL the AU was classified support for secondary contact. Otherwise, the same determination of primary contact was applied.

3. Raw Source of Drinking Water (rivers and lakes)

The assessment of the **drinking water use** was based on monitored contaminants listed in the PRWQSR and the data obtained from the Source Water Assessment Program (SWAP). The additional criteria used to assess drinking water use was the presence of a water intake in the assessment unit.

Parameters considered for Raw Source of Drinking Water Use (RSDW) assessment were the following:

| | |
|---------------------|--|
| Arsenic (As) | Mercury (Hg) |
| Total Chromium (Cr) | Nitrates + Nitrites (NO ₃ + NO ₂) |
| Copper (Cu) | Cyanide (CN) |
| Cadmium (Cd) | Selenium (Se) |
| Lead (Pb) | Total Phosphorus (P) |

The assessment for RSDW use made taking in consideration the compliance of available monitoring data of the contaminants outlined above with the water quality standards or the Safe Drinking Water Act (SDWA) MCL's. The median of the available values will be compared with the applicable water quality standard or MCL. If the median of the total values did not exceed the standard the segment was classified support for DW. On the contrary, if the median exceeded the applicable water quality standard, or MCL, the segment (AU) was classified in non support.

For **non toxic substances (Ba, Mn, TP, NO₃+NO₂ and F)**, when the percent of violations of all the total monitoring values are less than or equal to 10%, the segment (AU) was classified as support ; over 10% of violations make the segment non support for drinking water.

4. Aquatic Life Use Support (ALUS) for rivers, lakes, estuaries and coasts

The **aquatic life use support** for the Report was determined on the basis of physical and chemical data obtained from fixed monitoring stations. Biological assessments have not been implemented by **PREQB**, because biological assessment protocols for Puerto Rico have not been developed. Eventhough the best assessment for aquatic life

use support would incorporate a combination of chemical and biological data, the 2002 Integrated Report will try to assess this designated use as best as possible with the available data. Consonant with the Water Assessment Report Guidelines (Supplement 1997), the ALUS was based on the physical/chemical data collected on a semi-annual frequent grab sampling during key periods (high and low flows). Three (3) years of data was used to perform the aquatic life assessment in order to address some important components of a water quality standard: (1) **magnitude** of a contaminant concentration; (2) **duration** of time over a contaminant concentration are present; (3) **frequency** in which a water quality standard can be exceeded. In spite of the fact that three (3) years is a short period of record, PREQB understands that the data can indicate a high confidence of impairment. The toxic parameters that took into account are:

| | |
|----------------------------|---------------|
| Ammonia (NH ₃) | Mercury (Hg) |
| Arsenic (As) | Lead (Pb) |
| Cadmium (Cd) | Surfactants |
| Total Chromium(Cr) | Selenium (Se) |
| Copper (Cu) | Silver (Ag) |
| Cyanides (CN) | |

For this toxic parameters, **a single violation of the standard was enough to classify the segment as non-support for aquatic life use.**

Conventional parameters are also evaluated using the **percent of exceedance of the applicable water quality standard from the data collected.** If the percent of exceedance of the data was equal or less than 10% the (AU) was classified support (category 1) for AL. The AU's in which more than 10% of the data exceeded the standard have been classified non support (category 4 or 5). The conventional parameters used for the assessment of aquatic life use support are:

| | |
|------------------------|-------------|
| Dissolved Oxygen (DO) | Temperature |
| Turbidity (Lakes only) | PH |

Chapter 3: Water Pollution Control Program

The Water Quality Area (WQA) is the main unit of the PREQB which has the goal of implementing most of the environmental programs to enhance and preserve water quality in Puerto Rico. This goal is achieved through the execution of various activities for the control of the point and nonpoint sources of pollution such as field inspections, monitoring, permits issuance, management plans approval, enforcement actions and planning strategies. During this reporting cycle the Permits and Compliance Bureau of the WQA implemented the following control actions:

**Summary of Actions Initiative For Point Source Control
Puerto Rico 2002 305(b)/303(d) Integrated Report**

| Action | Industrial Permits | Municipal Permits | UST Program | UIC Program |
|-----------------------------------|--------------------|-------------------|-------------|-------------|
| Certificates Issued * | 56 | 20 | 2,388 | 112 |
| Inspections Performed | 508 | 218 | 249 | 161 |
| Referrals to Legal Affairs Office | 0 | 0 | 36 | 2 |

**Summary of Actions Initiative for Nonpoint Sources Control
Puerto Rico 2002 305(b)/303(d)
Integrated Report**

| Action | NonFiler Division | Livestock Enterprises Division | Nonpoint Sources Division |
|-----------------------------------|-------------------|--------------------------------|---------------------------|
| Permits or Certificates Issued | 0 | 257 | 978 |
| Inspections | 867 | 2,979 | 759 |
| Referrals to Legal Affairs Office | 0 | 25 | 229 |

Chapter 4: Listing Criteria

In 1998 the PREQB issued the 303(d) List based on suspected impacts from the point sources (NPDES discharges) into the water bodies and not took in consideration the ambient water quality monitoring and assessment. As a consequence not all the segments of water bodies identified in the 1998 List correspond to the PREQB assessment segmentation, due to the fact that the PPREQB watersheds segmentation is based on the monitoring strategy and not on the location of the point sources. The implications of the 1998 List approach were:

- ❖ Some of the impaired waters identified in 305(b) Report were not addressed.
- ❖ The waterbodies segments included in the 1998 List not necessarily correspond to the PREQB watershed segmentation.

- ❖ The presence of a point source in the water body segment not necessarily classify the waterbody as impaired because the attainment determination is based on the water quality assessment.

For the 2002 305 (b)/303 (d) Integrated Report the PREQB has performed a listing and delisting analysis to develop the 2002 303 (d) List. For the analysis PREQB took in consideration the impaired waters that were included in the 1998, 303 (d) List to determine whether these water bodies continue impaired for this 2002 cycle report based in the water quality assessment. In addition all the water bodies that not attained the designated uses in the 2002 water quality assessment (category 5) were included in the new 303 (d) List. In summary the **FY-02 303(d) List** includes the following:

- ❖ All the impaired waters from the FY-02 water quality assessment
- ❖ The impaired waters from the FY-00 water quality assessment that continue impaired.
- ❖ Waterbodies from the 1998 303(d) List that continue impaired

However, and based on the EPA's new guidance for the development of the 2002 Integrated Report, some of the water bodies listed in 1998 have been included in other categories as a result of the attainment analysis. Three (3) segments from 1998 List attained the designated uses in 2002 assessment (category 1, see table below).

**LISTING OF WATERBODIES FROM 1998 LIST
THAT ARE CATEGORY 1 IN
2002 INTEGRATED REPORT**

| HYDROLOGIC BASIN | WATERBODY NAME | WATERBODY ID |
|-------------------------|------------------------------|---------------------|
| Río Guanajibo | Río Maricao | PRWR0262g_02 |
| Río Guanajigo | Unn. Creek To Cupeyes Rivers | PRWR0263b_00 |
| Río Grande de Añasco | Quebrada Perchas | PRWR0279j_02 |

Four (4) segments attained some of the designated uses (category 2, see table below).

**LISTING OF WATERBODIES FROM 1998 LIST
THAT ARE CATEGORY 2 IN
2002 INTEGRATED REPORT**

| HYDROLOGIC BASIN | WATERBODY NAME | WATERBODY ID |
|-------------------------|-----------------------|---------------------|
| Río La Plata | Río La Plata | PRER0074a_00 |
| Río La Plata | Quebrada Naranjo | PRER0074c_00 |
| Río La Plata | Río La Plata | PRER0074d_00 |
| Río Grande de Arecibo | Río Tanamá | PRNR0041q_00 |

For eighty two (82) segments there is not data available to determine if any designated uses is attained (category 3, see table below).

**LISTING OF WATERBODIES FROM 1998 LIST
THAT ARE CATEGORY 3 IN
2002 INTEGRATED REPORT**

| HYDROLOGIC BASIN | WATERBODY NAME | WATERBODY ID |
|-------------------------|-----------------------|---------------------|
| Río La Plata | Río La Plata | PREE0064_00 |
| Río Espíritu Santo | Río Espíritu Santo | PREE0113a_00 |
| Río Espíritu Santo | Río Espíritu Santo | PREE0113b_00 |
| Río Sabana | Río Sabana | PREE0125_00 |
| Caño Santiago | Caño Santiago | PREK0168_01 |
| Río La Plata | Río Cocal | PRER0065_00 |
| Río La Plata | Río La Plata | PRER0066c_00 |
| Río La Plata | Río La Plata | PRER0074l_00 |
| Río La Plata | Río La Plata | PRER0074n_00 |
| Río La Plata | Río La Plata | PRER0074p_00 |
| Río La Plata | Río Usabón | PRER0075b_00 |
| Río Grande de Loíza | Río Canóvanas | PRER0101a_00 |
| Río Grande de Loíza | Río Canóvanas | PRER0101b_00 |
| Río Grande de Loíza | Quebrada Maracuto | PRER0104a-00 |
| Río Grande de Loíza | Quebrada Maracuto | PRER0104a_04 |
| Río Grande de Loíza | Río Gurabo | PRER0108f-00 |
| Río Grande de Loíza | Río Gurabo | PRER0108h_01 |
| Río Grande de Loíza | Río Bairoa | PRER0109a-00 |
| Río Grande de Loíza | Río Bairoa | PRER0109c_00 |
| Río Grande de Loíza | Río Grande de Loíza | PRER0110d_00 |
| Río Grande de Loíza | Río Grande de Loíza | PRER0110g_00 |
| Río Grande de Loíza | Río Grande de Loíza | PRER0110h_00 |
| Río Grande de Loíza | Río Grande de Loíza | PRER0110k_00 |

| HYDROLOGIC BASIN | WATERBODY NAME | WATERBODY ID |
|-------------------------|-------------------------------|---------------------|
| Río Herrera | Río Herrera | PRER0112_00 |
| Río Espíritu Santo | Río Grande | PRER0117_01 |
| Río Mameyes | Río Mameyes | PRER0123a_00 |
| Río Sabana | Río Sabana | PRER0127b-01 |
| Río Fajardo | Río Fajardo | PRER0133a_00 |
| Río Santiago | Río Santiago | PRER0149b_01 |
| Río Blanco | Río Blanco | PRER0151a_00 |
| Río Blanco | Río Blanco | PRER0151c_00 |
| Río Guayanés | Río Guayanés | PRER0165c_00 |
| Río Maunabo | Río Maunabo | PRER0170a_00 |
| Quebrada Los Cedros | Quebrada Los Cedros | PRNC0026_00 |
| Quebrada del Oro | Unnamed Stream – Qb. Pitillos | PRNC0269_00 |
| Río Grande de Manatí | Río Grande de Manatí | PRNE0055_00 |
| Río Cibuco | Caño Cabo Caribe | PRNK0062_00 |
| Río Guajataca | Río Guajataca | PRNR0032b_00 |
| Río Camuy | Río Camuy | PRNR0036a-01 |
| Río Grande de Arecibo | Río Tanamá | PRNR0041a_01 |
| Río Grande de Arecibo | Río Tanamá | PRNR0041a_02 |
| Río Grande de Arecibo | Río Caonillas | PRNR0046d_01 |
| Río Grande de Arecibo | Río Limón | PRNR0047e_00 |
| Río Grande de Arecibo | Río Grande de Arecibo | PRNR0048c_00 |
| Río Grande de Manatí | Río Grande de Manatí | PRNR0056d_02 |
| Río Grande de Manatí | Río Grande de Manatí | PRNR0056f_00 |
| Río Grande de Manatí | Río Grande de Manatí | PRNR0056h_00 |
| Río Grande de Manatí | Río Grande de Manatí | PRNR0056n_00 |
| Río Cibuco | Río Cibuco | PRNR0063d_00 |
| Río Cibuco | Río Cibuco | PRNR0063e_02 |
| Río Cibuco | Río Cibuco | PRNR0063f_00 |

| HYDROLOGIC BASIN | WATERBODY NAME | WATERBODY ID |
|-------------------------|----------------------------------|---------------------|
| Río Tallaboa | Bahía Tallaboa | PRSE0229_00 |
| Río Loco | Canal de Drenaje | PRSK0243_00 |
| Río Grande de Patillas | Río Grande de Patillas | PRSR0181_00 |
| Río Nigua de Arroyo | Río Niguas de Arroyo | PRSR0186_01 |
| Río Guamaní | Río Guayama | PRSR0193b_00 |
| Río Guamaní | Río Guamaní | PRSR0193c_00 |
| Río Jacaguas | Río Jacaguas | PRSR0215c_00 |
| Río Jacaguas | Int. Creek Trib. to Río Jacaguas | PRSR0220b_00 |
| Río Jacaguas | Río Jacaguas | PRSR0220c_00 |
| Río Inabón | Río Inabón | PRSR0223b_01 |
| Río Inabón | Río Inabón | PRSR0223c_01 |
| Río Portugués | Río Portugués | PRSR0225a_00 |
| Río Portugués | Río Portugués | PRSR0225f_00 |
| Río Matilde- Pastillo | Rí Matilde-Pastillo | PRSR0228b_00 |
| Río Matilde – Pastillo | Río Matilde-Pastillo | PRSR0228c_01 |
| Río Tallaboa | Río Guayanés | PRSR0230b_00 |
| Río Tallaboa | Río Guayanés | PRSR0230c_01 |
| Río Macaná | Porción estuarina del Río Macaná | PRSR0232_01 |
| Río Guayanilla | Río Guayanilla | PRSR0233d_02 |
| Río Yauco | Río Yauco | PRSR0235b |
| Río Yauco | Río Yauco | PRSR0235c_01 |
| Río Guanajibo | Río Guanajibo | PRWR0262g_01 |
| Río Guanajibo | Río Guanajibo | PRWR0263a_00 |
| Río Yaguez | Río Yaguez | PRWR0268a_00 |
| Río Grande de Añasco | Río Grande de Añasco | PRWR0279j_01 |
| Río Grande de Añasco | Río Grande de Añasco | PRWR0279k_02 |
| Río Grande de Añasco | Río Arenas | PRWR0280_00 |
| Río Grande de Añasco | Río Guayo | PRWR0284_01 |

| HYDROLOGIC BASIN | WATERBODY NAME | WATERBODY ID |
|-------------------------|-----------------------|---------------------|
| Río Guayabo | Río Ingenio | PRWR0300_00 |
| Río Culebrinas | Río Culebrinas | PRWR0305_01 |
| Quebrada del Oro | Quebrada del Oro | PRWC0269c_00 |
| Río La Plata | Río Usabón | PRER0075c_00 |
| Río Grande de Loíza | Río Gurabo | PRER0108d_00 |
| Río Grande de Añasco | Río Grande de Añasco | PRWR0279o_00 |

A monitoring strategy will be developed to gather the necessary information from these segments to perform the attainment determination. The rest of the 1998 listed waters continue in the 2002 303 (d) List. The listed waters have been included in **Category 5** and the schedule for TMDL implementation will be developed as a mechanism to achieve that these water bodies meet the water quality standards.

Chapter 5: Priority Ranking

On October 1998 the PREQB in collaboration with the Natural Resources Conservation Services (NRCS) and the Environmental Protection Agency (EPA), developed the Puerto Rico Unified Watershed Assessment and Restoration Activities (PRUWA). As a result of this initiative eighteen (18) watersheds were classified as the priority waterbodies in which the PREQB will implement the restoration activities. These watersheds are: Río Grande de Arecibo, Río La Plata, Río Cibuco, Río Grande de Loíza, Río Grande de Añasco, Río Guajataca, Río Yaguez, Río Bayamón, Río Piedras, Río Guanajibo, Quebrada Blasina, Río Grande de Manatí, Río Culebrinas, Río Hondo, Río Grande de Patillas, Río Coamo, Río Guayanilla and Río Blanco.

Some of the criteria used to establish the priority ranking among the watersheds were:

- ❖ Number of population that watershed serve as source of drinking water
- ❖ Water quality conditions of the watershed
- ❖ Number of pollution sources that threaten the waterbody

For the FY-02 303(d) listed waters PREQB has established a priority ranking in order to determine the schedule for the development of the restoration activities such as TMDL's. This ranking considers the watershed priority restoration included on the above mentioned PRUWA and the percentage of the waters impaired in each watershed (severity). To implement this ranking three priority levels are defined: There are:

- ❖ High Priority Ranking Level (Identify as H): watershed included in the PRUWA as priority watersheds.
- ❖ Medium Priority Ranking Level (Identify as M): watersheds that are not included in the PRUWA and have 50 or more percentage of impaired waters.

- ❖ Low Priority Ranking Level (Identify as L): watersheds that were not included in the PRUWA and have less than 50 percentage of impaired waters.

The PREQB will develop and implement the Fecal Coliforms TMDLs for the impaired waters from the following priority watersheds in the next two years:

| Watershed Name | Proposed Date |
|-----------------------|----------------------|
| Río Cibuco | October 2002 |
| Río La Plata | March 2003 |
| Río Grande de Añasco | September 2004 |
| Río Grande de Loíza | March 2004 |
| Río Guanajibo | September 2004 |
| Río Yaguez | September 2004 |

Chapter 6: Monitoring Strategy for Not Monitored Waters

The result of the 2002 water quality assessment was that in Puerto Rico we have **3,743.8** rivers miles, **207** coastal miles and **54** lake acres in which there is not data or sufficient information to determine if any designated use is attained (Category 3). To address these unmonitored waters and make a use support determinations, PREQB has developed a monitoring strategy for the different designated uses based in a combination of physical, chemical and bacteriological measures. The monitoring design will follow the Rotating Basin Surveys approach and PREQB has taken in consideration the watersheds analysis and the priorities established in the PRUWA for the schedule of implementation.

For the development of the Rotating Basin Monitoring Strategy an analysis between the watersheds was performed to determine the watershed with the more not monitored segments to establish the target number of sampling stations that should be create to

fulfill with the necessary monitoring coverage. Río Grande de Loíza was the first ranking with 32 category 3 water segments. An eleven (11) years monitoring schedule have been developed to obtain water quality data from all the Category 3 waters based on a 32 sampling stations per year through the Rotating Basin approach. In addition an specific schedule of implementation for each year have been developed. **Appendix II** includes the schedule of implementation in details.

PART III

RIVERS AND STREAMS ASSESSMENT

PUERTO RICO WATERSHEDS WATER QUALITY ASSESSMENT SUMMARY

PUERTO RICO 2002 - 305(b)/303(d) Report

| BASIN NAME | BASIN SIZE (Miles) | CATEGORY (Miles) | | | | |
|--------------------------|-----------------------|------------------|-------|-------|---|------------------|
| | | 1 | 2 | 3 | 4 | 5* |
| QUEBRADA DE LOS CEDROS | 12.0 | | | 12.0 | | |
| QUEBRADA DEL TORO | 1. | | | 1.0 | | |
| QUEBRADA BELLACA | 1.7 | | | 1.7 | | |
| QUEBRADA SECA | 2.0 | | | 2.0 | | |
| RIO GRANDE DE ARECIBO | 424.6 | 14.9 | 143.4 | 113.7 | | 152.6 (36%) |
| CAÑO TIBURONES | 38.7 | | | 38.7 | | |
| RIO CIBUCO | 164.2 | | | 134.0 | | 30.2 (18.3%) |
| RIO LA PLATA | 494.5 | 19.0 | 96.7 | 282.4 | | 96.4 (19.5%) |
| CAÑO CONTROL DE MALARIA | 8.0 | | | 8.0 | | |
| RIO PIEDRAS | 55.9 | | | 29.7 | | 26.2 (46.8%) |
| QUEBRADA SAN ANTON | 3.0 | | | 3.0 | | |
| QUEBRADA BLASINA | 21.0 | | | 9.7 | | 11.3 (53.8%) |
| RIO GRANDE DE LOIZA | 583.1 | 17.4 | 12.3 | 414.2 | | 139.2 (23.8%) |
| RIO ESPIRITU SANTO | 58.4 | 4.6 | | 40.3 | | 13.5 (23.1%) |
| QUEBRADA MATA DE PLATANO | 4.0 | | | 4.0 | | |
| RIO JUAN MARTIN | 7.8 | | | 7.8 | | |
| RIO FAJARDO | 59.0 | 9.0 | | 29.3 | | 20.7 (35%) |
| QUEBRADA CEIBA | 5.0 | | | 5.0 | | |
| QUEBRADA PALMA | 11.8 | | | 11.8 | | |
| QUEBRADA BOTIJAS | 7.4 | | | 7.4 | | |
| RIO ANTON RUIZ | 20.4 | | | 20.4 | | |
| CAÑO DE SANTIAGO | 11.9 | 1.2 | | 10.7 | | |
| QUEBRADA EMAJAGUA | 2.5 | 2.5 | | | | |
| RIO HONDO | 22.0 | | | 1.0 | | 21.0 (95.4%) |
| RIO BAYAMON | 185.0 | | | 118.6 | | 66.4 (35.9%) |
| QUEBRADA JUAN MENDEZ | 7.0 | | | 7.0 | | |
| QUEBRADA FRONTERAS | 8.5 | | | 8.5 | | |
| RIO HERRERA | 17.0 | | | 17.0 | | |
| RIO MAMEYES | 38.9 | 9.9 | | 29.0 | | |
| RIO SABANA | 33.1 | 9.8 | | 23.3 | | |
| QUEBRADA FAJARDO | 10.0 | | | 10.0 | | |
| RIO DEMAJAGUA | 2.8 | | | 2.8 | | |
| QUEBRADA AGUAS CLARAS | 4.8 | | | 4.8 | | |
| RIO DAGUAO | 13.8 | | | 13.8 | | |
| RIO SANTIAGO | 15.3 | | | 15.3 | | |
| RIO BLANCO | 58.4 | 3.3 | | 55.1 | | |
| RIO HUMACAO | 55.8 | | | 29.8 | | 26.0 (46.6%) |

| BASIN NAME | BASIN SIZE (Miles) | CATEGORY (Miles) | | | | |
|------------------------|-----------------------|------------------|---|-------|---|------------------|
| | | 1 | 2 | 3 | 4 | 5* |
| RIO CANDELERO | 10.4 | | | 10.4 | | |
| RIO GUAYANES | 94.6 | | | 75.0 | | 19.6 (20.7%) |
| RIO MAUNABO | 36.0 | 0.9 | | 19.1 | | 16.0 (44.4%) |
| RIO GUAJATACA | 38.0 | 0.9 | | 22.4 | | 14.7 (38.6%) |
| RIO CAMUY | 48.6 | 47.6 | | 1.0 | | |
| RIO GRANDE DE MANATI | 234.6 | 46.4 | | 86.8 | | 101.4 (43.2%) |
| QUEBRADA MANGLILLO | 1.0 | | | 1.0 | | |
| QUEBRADA FLORIDA | 3.0 | | | 3.0 | | |
| QUEBRADA PALENQUE | 1.0 | | | 1.0 | | |
| QUEBRADA YAUREL | 6.0 | | | 6.0 | | |
| QUEBRADA SALADA | 1.7 | | | 1.7 | | |
| QUEBRADA CORAZON | 9.7 | | | 9.7 | | |
| QUEBRADA BRANDERI | 4.5 | | | 4.5 | | |
| QUEBRADA MELANIA | 7.0 | | | 7.0 | | |
| QUEBRADA AMOROS | 0.7 | | | 0.7 | | |
| QUEBRADA AGUAS VERDES | 15.0 | | | 15.0 | | |
| RIO JACABOA | 13.0 | | | 13.0 | | |
| RIO CHICO | 14.6 | | | 11.9 | | 2.7 (18.5%) |
| RIO GRANDE DE PATILLAS | 48.6 | 3.4 | | 31.1 | | 14.1 (29%) |
| RIO NIGUAS - ARROYO | 21.0 | 1.2 | | 19.8 | | |
| RIO GUAMANI | 22.0 | | | 22.0 | | |
| RIO SECO | 24.7 | | | 24.7 | | |
| RIO NIGUAS - SALINAS | 102.5 | | | 102.5 | | |
| RIO JUEYES | 11.0 | | | 11.0 | | |
| RIO CAYURES | 5.0 | | | 5.0 | | |
| RIO COAMO | 115.7 | 2.8 | | 85.5 | | 27.4 (23.6%) |
| RIO DESCALABRADO | 18.8 | | | 18.8 | | |
| RIO CAÑAS | 8.0 | | | 8.0 | | |
| RIO JACAGUAS | 89.5 | 3.7 | | 85.8 | | |
| RIO INABON | 66.7 | 1.2 | | 65.5 | | |
| RIO BUCANA - CERRILLOS | 60.4 | | | 59.6 | | 0.8 (1.3%) |
| RIO PORTUGUES | 54 | | | 32.4 | | 21.6 (40%) |
| RIO MATILDE - PASTILLO | 51.2 | | | 51.2 | | |
| RIO TALLABOA | 59.6 | | | 59.6 | | |
| RIO MACANA | 21.7 | | | 21.7 | | |
| RIO GUAYANILLA | 60.0 | | | 46.5 | | 13.5 (22.5%) |
| RIO YAUCO | 93.7 | | | 93.7 | | |
| RIO LOCO | 113.4 | 0.9 | | 103.8 | | 8.7 (7.7%) |
| RIO ARROYO CAJUL | 7.4 | | | 7.4 | | |
| QUEBRADA BOQUERON | 11.7 | | | 11.7 | | |
| QUEBRADA ZUMBON | 1.7 | | | 1.7 | | |

| BASIN NAME | BASIN SIZE (Miles) | CATEGORY (Miles) | | | | |
|-----------------------------|-----------------------|------------------|--------------|----------------|----------|------------------|
| | | 1 | 2 | 3 | 4 | 5* |
| QUEBRADA GONZALEZ | 1.8 | | | 1.8 | | |
| QUEBRADA LOS PAJARITOS | 2.7 | 2.7 | | | | |
| QUEBRADA IRIZARRY | 2.0 | 2.0 | | | | |
| QUEBRADA DEL ORO | 10.0 | | | 10.0 | | |
| CAÑO BOQUILLA | 12.3 | 1.2 | | 11.1 | | |
| RIO GRANDE DE AÑASCO | 488.6 | 12.2 | | 404.5 | | 71.9 (14.7%) |
| QUEBRADA JUSTO | 1.0 | | | 1.0 | | |
| QUEBRADA ICACOS | 1.4 | | | 1.4 | | |
| QUEBRADA CAGUABO | 1.0 | | | 1.0 | | |
| QUEBRADA GRANDE DE CALVACHE | 14.8 | | | 14.8 | | |
| QUEBRADA LOS RAMOS | 6.9 | | | 6.9 | | |
| QUEBRADA PUNTA ENSENADA | 5.0 | | | 5.0 | | |
| QUEBRADA PILETAS | 2.0 | | | 2.0 | | |
| CAÑO CONDE AVILA | 4.0 | | | 4.0 | | |
| CAÑO MERLE | 11.1 | | | 11.1 | | |
| CAÑO MANI | 3.0 | | | 3.0 | | |
| CAÑO GARCIA | 2.0 | | | 2.0 | | |
| CAÑO DE SANTI PONCE | 4.8 | | | 4.8 | | |
| CAÑO CORAZONES | 1.3 | | | 1.3 | | |
| RIO GUANAJIBO | 324.6 | 39.3 | | 184.1 | | 101.2 (31.2%) |
| RIO YAGUEZ | 42.2 | 14.4 | | 5.8 | | 22.0 (52.1%) |
| RIO GRANDE | 21.8 | | | 21.8 | | |
| RIO GUAYABO | 43.1 | | | 43.1 | | |
| RIO CULEBRINAS | 308.8 | 20.3 | | 222.3 | | 66.2 (21.4%) |
| Total | 5,394.2 | 292.7 | 252.4 | 3,743.8 | - | 1,105.3 |

* Rivers miles in which TMDL should be implemented.

**ASSESSMENT FOR MONITORED RIVERS WITH SOURCES AND CAUSES *
PUERTO RICO 2002 – 305(b)/303(d) REPORT**

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-------------------------|------------------|------------------|-----------------|----------|--|---|
| PREC0094b_00 | QUEBRADA BLASINA | QUEBRADA BLASINA | 11.3 | 5 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Collection System Failure (0500) Agriculture (1000) Confined animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecals Coliforms Nonpriority Organicsn (0400) Surfactants Collection System Failure (0500) Arsenic (0510) Mercury (0560) Ammonia (0600) Dissolved Oxygen (1200) Other Inorganics (0800) Manganase Phosphorus (0910) |
| PRER0066b_00 | RIO LA PLATA | RIO LA PLATA | 44.5 | 5 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms |
| PRER0069a_00 | RIO LA PLATA | RIO GUADIANA | 17.6 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Cyanide (0720) |
| PRER0074a_00 | RIO LA PLATA | RIO LA PLATA | 20.7 | 2 | | |
| PRER0074b_00 | RIO LA PLATA | RIO LA PLATA | 16 | 5 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) |
| PRER0074c_02 | RIO LA PLATA | RIO ARROYATA | 36.8 | 2 | | |
| PRER0074d_00 | RIO LA PLATA | RIO LA PLATA | 28.5 | 2 | | |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-------------------------|---------------------|-------------------|-----------------|----------|---|---|
| PRER0074j_00 | RIO LA PLATA | RIO LA PLATA | 18.3 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) |
| PRER0074k_01 | RIO LA PLATA | RIO LA PLATA | 10.7 | 2 | | |
| PRER0080b_00 | RIO HONDO | RIO HONDO | 21 | 5 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Nonpriority Organicsn (0400) Ammonia (0600) Other Inorganics (0800) Manganese Dissolved Oxygen (1200) Thermal Modifications (1400) |
| PRER0081b_00 | RIO BAYAMON | RIO BAYAMON | 11.3 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Other Inorganics (0800) Manganese |
| PRER0081c_00 | RIO BAYAMON | RIO BAYAMON | 29.4 | 5 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Collection System Failure (0510) Copper (0530) Cyanide (0720) Other Inorganics (0800) Manganese |
| PRER0081h_00 | RIO BAYAMON | RIO BAYAMON | 25.7 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) |
| PRER0088b_00 | RIO PIEDRAS | RIO PIEDRAS | 7.3 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Lead (0550) Nonpriority Organicsn (0400) Ammonia (0600) Other Inorganics (0800) Manganese Dissolved Oxygen (1200) |
| PRER0088d_00 | RIO PIEDRAS | RIO PIEDRAS | 18.9 | 5 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Nonpriority Organicsn (0400) Metals (0500) Arsenic (0510) Ammonia (0600) Cyanide (0720) Other Inorganics (0800) Manganese |
| PRER0104b_00 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 12.3 | 5 | Collection System Failure (0500) | Pathogens (1700) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-------------------------|---------------------|---------------------|-----------------|----------|---|--|
| | | | | | Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) | Fecal Coliforms Cyanide (0720) Other Inorganics (0800) Manganese Dissolved Oxygen (1200) |
| PRER0108b_00 | RIO GRANDE DE LOIZA | RIO GURABO | 18.6 | 5 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Ammonia (0600) Dissolved Oxygen (1200) Other Inorganics (0800) Manganese |
| PRER0108h_02 | RIO GRANDE DE LOIZA | RIO GURABO | 6.9 | 5 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Phosphorus (0910) |
| PRER0109b_00 | RIO GRANDE DE LOIZA | RIO BAIROA | 7.3 | 5 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Cyanide (0720) Other Inorganics (0800) Manganese |
| PRER0110b_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 16.2 | 5 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Nonpriority Organics (0400) Surfactants Ammonia (0600) Cyanide (0720) Other Inorganics (0800) Manganese |
| PRER0110e_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 29 | 5 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Other Inorganics (0800) Manganese |
| PRER0110f_02 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 12.3 | 5 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms |
| PRER0110h_02 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 11.9 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Ammonia (0600) Dissolved Oxygen (1200) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-------------------------|-----------------------|-----------------------|-----------------|----------|---|--|
| PRER0110i_02 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 24.7 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Ammonia (0600) |
| PRER0110i_03 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 12.3 | 2 | | |
| PRER0118b_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 13.5 | 5 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Nonpriority Organics (0400) Surfactants |
| PRER0133b_00 | RIO FAJARDO | RIO FAJARDO | 18 | 5 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) Lead (0550) |
| PRER0133c_01 | RIO FAJARDO | RIO FAJARDO | 2.7 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Unknown Source (9000) | Metals (0500) Lead (0550) |
| PRER0160b_00 | RIO HUMACAO | RIO HUMACAO | 26 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Cyanide (0720) Other Inorganics (0800) Manganese |
| PRER0165b_00 | RIO GUAYANES | RIO GUAYANES | 19.6 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms |
| PRER0170b_00 | RIO MAUNABO | RIO MAUNABO | 16 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) Cyanide (0720) |
| PRNR0029a_00 | RIO GUAJATACA | RIO GUAJATACA | 9.1 | 5 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Pathogens (1700) Fecal Coliforms |
| PRNR0032c_00 | RIO GUAJATACA | RIO GUAJATACA | 5.6 | 5 | Agriculture (1000) Specialty Crop Production (1300) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Pathogens (1700) Fecal Coliforms |
| PRNR0040a_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 14.1 | 5 | Industrial Point Sources (0100) Major Industrial Point | Metals (0500) Arsenic (0510) Copper (0530) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-------------------------|-----------------------|-----------------------|-----------------|----------|--|--|
| | | | | | Sources (0110) Land Disposal (6000) Onsite Wastewater Systems (6500) | Lead (0550) Cyanide (0720) Pathogens (1700) Fecal Coliforms Other Inorganics (0800) Manganase |
| PRNR0040c_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 0.9 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Mercury (0560) Other Inorganics (0800) Manganase Low Dissolved Oxygen (1200) |
| PRNR0041p_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 19 | 5 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Mercury (0560) Cyanide (0720) Other Inorganics (0800) Manganase Pathogens (1700) Fecal Coliforms |
| PRNR0041q_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 24.5 | 2 | | |
| PRNR0046b_00 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 37.9 | 5 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Other Inorganics (0800) Manganase Pathogens (1700) Fecal Coliforms |
| PRNR0047a_00 | RIO GRANDE DE ARECIBO | RIO LIMON | 4.3 | 2 | | |
| PRNR0047b_00 | RIO GRANDE DE ARECIBO | RIO LIMON | 31.6 | 2 | | |
| PRNR0047c_00 | RIO GRANDE DE ARECIBO | RIO LIMON | 20.9 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms |
| PRNR0047d_00 | RIO GRANDE DE ARECIBO | RIO LIMON | 14.4 | 2 | | |
| PRNR0048a_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 32.3 | 5 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Specialty Crop Production (1300) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Lead (0550) Other Inorganics (0800) Manganase Pathogens (1700) Fecal Coliforms |
| PRNR0048d_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 68.6 | 2 | | |
| PRNR0048e_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 27.5 | 5 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-------------------------|----------------------|----------------------|-----------------|----------|--|--|
| PRNR0056c_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 11.2 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) | Metals (0500) Arsenic (0510) Cadmium (0520) Copper (0530) Lead (0550) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms |
| PRNR0056e_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 11.8 | 5 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms |
| PRNR0056g_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 14.6 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms |
| PRNR0056l_02 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 52.7 | 5 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Package Plants (0230) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Mercury (0560) Pathogens (1700) Fecal Coliforms |
| PRNR0056m_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 11.1 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Pathogens (1700) Fecal Coliforms |
| PRNR0063e_01 | RIO CIBUCO | RIO CIBUCO | 12.8 | 5 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Combined Sewer Overflow (0400) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms |
| PRNR0063i_00 | RIO CIBUCO | RIO CIBUCO | 17.4 | 5 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) | Nonpriority Organics (0400) Surfactants Pathogens (1700) Fecal Coliforms |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-------------------------|------------------------|------------------------|-----------------|----------|--|---|
| PRSR0177_00 | RIO CHICO | RIO CHICO | 2.7 | 5 | Onsite Wastewater Systems (6500) Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Hydromodification (7000) Upstream Impoundment (7350) | Pathogens (1700) Fecal Coliforms Nonpriority Organics (0400) Surfactants Ammonia (0600) Cyanide (0720) Metals (0500) Copper (0530) Low Dissolved Oxygen (1200) Nutrients (0900) Phosphorus (0910) |
| PRSR0184a_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 14.1 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Agriculture (1000) Confined Animal Feeding Operations (1640) | Pathogens (1700) Fecal Coliforms |
| PRSR0210b_00 | RIO COAMO | RIO COAMO | 27.4 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Agriculture (1000) Confined Animal Feeding Operations (1640) Municipal Point Sources (0200) Package Plants (0230) | Pathogens (1700) Fecal Coliforms |
| PRSR0224b_00 | RIO BUCANA - CERRILLOS | RIO BUCANA CERRILLOS | 0.8 | 5 | Urban Runoff/Storm Sewers (4000) Natural Sources (8600) | Metals (0500) Arsenic (0510) Mercury (0560) |
| PRSR0225b_00 | RIO PORTUGUES | RIO PORTUGUES | 11.4 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Industrial Point Sources (0100) Minor Industrial Point Sources (0120) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) |
| PRSR0225e_00 | RIO PORTUGUES | RIO PORTUGUES | 10.2 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms |
| PRSR0233b_00 | RIO GUAYANILLA | RIO GUAYANILLA | 13.5 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) |
| PRSR0242a_00 | RIO LOCO | RIO LOCO | 8.7 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Low Dissolved Oxygen (1200) Other Inorganics (0800) Manganese |
| PRWR0262b_00 | RIO GUANAJIBO | RIO GUANAJIBO | 60.2 | 5 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Chromium Lead (0550) Pathogens (1700) Fecal Coliforms Cyanide (0720) Other Inorganics (0800) Manganese |
| PRWR0262e_00 | RIO GUANAJIBO | RIO GUANAJIBO | 17.4 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-------------------------|----------------------|----------------------|-----------------|----------|--|--|
| PRWR0262i_00 | RIO GUANAJIBO | RIO GUANAJIBO | 23.6 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Nutrients (0900) |
| PRWR0268c_00 | RIO YAGUEZ | RIO YAGUEZ | 22 | 5 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Nonpriority Organicsn (0400) Surfactants |
| PRWR0279a_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 24.4 | 5 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Mercury (0560) Other Inorganics (0800) Manganese |
| PRWR0279h_01 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 20.6 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Unknown Source (9000) | Pathogens (1700) Fecal Coliforms Nonpriority Organicsn (0400) Surfactants Metals (0500) Copper (0530) Other Inorganics (0800) Manganese |
| PRWR0279l_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 26.9 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Agriculture (1000) Specialty Crop Production (1300) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) |
| PRWR0304a_00 | RIO CULEBRINAS | RIO CULEBRINAS | 28.3 | 5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Mercury (0560) Other Inorganics (0800) Manganese |
| PRWR0304e_01 | RIO CULEBRINAS | RIO CULEBRINAS | 37.9 | 5 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Other Inorganics (0800) Manganese |

ASSESSMENT FOR NOT MONITORED RIVERS AND STREAMS WITH SOURCES *
PUERTO RICO 2002 - 305(b)/303(d) REPORT

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|-------------------------|----------------------------|-----------------|----------|---|
| PREC0070_00 | RIO LA PLATA | QUEBRADA ORTIZ | 2.1 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0071_00 | RIO LA PLATA | QUEBRADA CANCEL | 7.2 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0072_00 | RIO LA PLATA | QUEBRADA DAJAOS | 4.5 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0077_00 | RIO LA PLATA | UNNAMED CREEK | 2.2 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0078_00 | RIO LA PLATA | UNNAMED CREEK | 1.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0085_00 | CAÑO CONTROL DE MALARIA | CAÑO CONTROL DE LA MALARIA | 8 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0087_00 | RIO PIEDRAS | QUEBRADA MARGARITA | 3.2 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0092_00 | QUEBRADA JUAN MÉNDEZ | QUEBRADA JUAN MENDEZ | 7 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0093_00 | QUEBRADA SAN ANTON | QUEBRADA SAN ANTON | 3 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0094a_00 | QUEBRADA BLASINA | QUEBRADA BLASINA | 9.7 | 3 | Collection System Failure (0500) |
| PREC0102_00 | RIO GRANDE DE LOIZA | QUEBRADA BOCAFORMA | 3.4 | 3 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|--------------------------|--------------------------|-----------------|----------|---|
| PREC0106_00 | RIO GRANDE DE LOIZA | QUEBRADA CARRAIZO | 3 | 3 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| | | | | | |
| PREC0114_00 | RIO ESPIRITU SANTO | QUEBRADA CULEBRA | 1.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0115_00 | RIO ESPIRITU SANTO | QUEBRADA JUAN GONZALEZ | 2.7 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0116_00 | RIO ESPIRITU SANTO | QUEBRADA DE LOS RAYOS | 6.3 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0124_00 | QUEBRADA MATA DE PLATANO | QUEBRADA MATA DE PLATANO | 4 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0130_00 | QUEBRADA FAJARDO | QUEBRADA FAJARDO | 10 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0132_00 | RIO FAJARDO | QUEBRADA MATA REDONDA | 5 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0136_00 | QUEBRADA CEIBA | QUEBRADA CEIBA | 5 | 3 | Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0140_00 | RIO DAGUAO | UNNAMED CREEK | 4.3 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0143_00 | QUEBRADA PALMA | QUEBRADA PALMA | 11.8 | 3 | Municipal Point Sources (0200) Package Plants (0230) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0145_00 | QUEBRADA BOTIJAS | QUEBRADA BOTIJAS | 1.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0146_00 | QUEBRADA BOTIJAS | QUEBRADA BOTIJAS | 6 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0153_00 | RIO ANTON RUIZ | QUEBRADA DE LAS MULAS | 3.5 | 3 | Agriculture (1000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|---------------------|----------------------|-----------------|----------|--|
| | | | | | Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0154_00 | RIO ANTON RUIZ | QUEBRADA LA TINAJERA | 4.5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0156_00 | QUEBRADA FRONTERAS | QUEBRADA FRONTERAS | 1.1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0157_00 | QUEBRADA FRONTERAS | UNNAMED CREEK | 4.5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0158_00 | QUEBRADA FRONTERAS | QUEBRADA FRONTERAS | 2.9 | 3 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0167_00 | CAÑO DE SANTIAGO | QUEBRADA LAJAS | 1.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREC0169_00 | QUEBRADA EMAJAGUA | QUEBRADA EMAJAGUA | 2.5 | 1 | |
| PREK0096_00 | RIO GRANDE DE LOIZA | CAÑO GALLARDO | 3.1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREK0097_00 | RIO GRANDE DE LOIZA | CAÑO ZEQUEIRA | 4.8 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREK0098_00 | RIO GRANDE DE LOIZA | CANAL MACHICOTE | 15.6 | 1 | |
| PREK0099_00 | RIO GRANDE DE LOIZA | CAÑO NORBERTO | 0.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREK0100_00 | RIO GRANDE DE LOIZA | CAÑO CARRASCO | 1.2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREK0168_01 | CAÑO DE SANTIAGO | CAÑO SANTIAGO | 9 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Resource Extraction (5000) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PREK0168_02 | CAÑO DE SANTIAGO | CAÑO SANTIAGO | 1.2 | 1 | |
| PRER0065_00 | RIO LA PLATA | RIO COCAL | 12.8 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0066a_00 | RIO LA PLATA | RIO LA PLATA | 12.7 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|--------------|-------------------|-----------------|----------|---|
| | | | | | Hydromodification (7000) Upstream Impoundment (7350) |
| PRER0066c_00 | RIO LA PLATA | RIO LA PLATA | 3.7 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0066d_00 | RIO LA PLATA | RIO LA PLATA | 7.5 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0068_00 | RIO LA PLATA | RIO CAÑAS | 10.4 | 3 | Municipal Point Sources (0200) Package Plants (0230) Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0069b_00 | RIO LA PLATA | RIO GUADIANA | 5.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0073a_00 | RIO LA PLATA | RIO CUESTA ARRIBA | 3.1 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) |
| PRER0073b_00 | RIO LA PLATA | RIO CUESTA ARRIBA | 7.5 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0074e_00 | RIO LA PLATA | RIO FRIO | 4 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0074f_00 | RIO LA PLATA | RIO CALIENTE | 3.1 | 1 | |
| PRER0074g_00 | RIO LA PLATA | RIO LA PLATA | 1.9 | 1 | |
| PRER0074h_00 | RIO LA PLATA | RIO LA PLATA | 6.6 | 1 | |
| PRER0074i_00 | RIO LA PLATA | RIO LA PLATA | 14.8 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0074I_00 | RIO LA PLATA | RIO LA PLATA | 35.2 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|--------------|-----------------|-----------------|----------|---|
| | | | | | Minor Municipal Point Sources (0220) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Industrial Point Sources (0100) Minor Industrial Point Sources (0120) |
| PRER0074m_00 | RIO LA PLATA | RIO LA PLATA | 39.7 | 3 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0074n_00 | RIO LA PLATA | RIO LA PLATA | 8 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0074o_00 | RIO LA PLATA | RIO LA PLATA | 5.6 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0074p_00 | RIO LA PLATA | RIO LA PLATA | 21 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0075a_00 | RIO LA PLATA | RIO USABON | 39.2 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0075b_00 | RIO LA PLATA | RIO USABON | 13.1 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Package Plants (0230) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|--------------|-----------------|-----------------|----------|---|
| | | | | | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0075c_00 | RIO LA PLATA | RIO USABON | 21 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0079_00 | RIO LA PLATA | RIO LA PLATA | 7.4 | 1 | |
| PRER0080a_00 | RIO HONDO | RIO HONDO | 1 | 3 | Urban Runoff/Storm Sewers (4000) Hydromodification (7000) Upstream Impoundment (7350) |
| PRER0081a_00 | RIO BAYAMON | RIO BAYAMON | 5.7 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRER0081d_00 | RIO BAYAMON | RIO BAYAMON | 21.3 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRER0081e_00 | RIO BAYAMON | RIO BAYAMON | 16.6 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0081f_00 | RIO BAYAMON | RIO BAYAMON | 32.5 | 3 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0081g_00 | RIO BAYAMON | RIO BAYAMON | 34.2 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|---------------------|-------------------|-----------------|----------|--|
| | | | | | Upstream Impoundment (7350) |
| PRER0083_00 | RIO BAYAMON | RIO BAYAMÓN | 2.8 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0084_00 | RIO BAYAMON | RIO BAYAMON | 5.5 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0088a_00 | RIO PIEDRAS | RIO PIEDRAS | 10.5 | 3 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0088c_01 | RIO PIEDRAS | RIO PIEDRAS | 13.3 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0088c_02 | RIO PIEDRAS | RIO PIEDRAS | 1.5 | 3 | Industrial Point Sources (0100) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0090_00 | RIO PIEDRAS | QUEBRADA CURIAS | 1.2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0101a_01 | RIO GRANDE DE LOIZA | RIO CANOVANAS | 3.7 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0101b_02 | RIO GRANDE DE LOIZA | RIO CANOVANAS | 28.9 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0103_00 | RIO GRANDE DE LOIZA | RIO CANOVANILLAS | 27.9 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0104a_01 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 31.8 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Collection System Failure (0500) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|---------------------|-------------------|-----------------|----------|--|
| | | | | | Urban Runoff/Storm Sewers (4000) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0104a_02 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 10.3 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0104a_03 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 0.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0104a_04 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 16.5 | 3 | Municipal Point Sources (0200) Package Plants (0230) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0107_00 | RIO GRANDE DE LOIZA | RIO CAÑAS | 13.6 | 3 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0108a_00 | RIO GRANDE DE LOIZA | RIO GURABO | 10.9 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRER0108c_00 | RIO GRANDE DE LOIZA | RIO GURABO | 25.9 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRER0108d_00 | RIO GRANDE DE LOIZA | RIO GURABO | 37.7 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|---------------------|-----------------|-----------------|----------|--|
| | | | | | (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0108e_00 | RIO GRANDE DE LOIZA | RIO GURABO | 29.2 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRER0108f_00 | RIO GRANDE DE LOIZA | RIO GURABO | 17.5 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0108g_00 | RIO GRANDE DE LOIZA | RIO GURABO | 1.8 | 1 | |
| PRER0108h_01 | RIO GRANDE DE LOIZA | RIO GURABO | 10 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0108i_00 | RIO GRANDE DE LOIZA | RIO GURABO | 8.6 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0109a_00 | RIO GRANDE DE LOIZA | RIO BAIROA | 5.2 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0109c_00 | RIO GRANDE DE LOIZA | RIO BAIROA | 3.8 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|---------------------|---------------------|-----------------|----------|---|
| PRER0110a_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 6.1 | 3 | Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRER0110c_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 3.8 | 3 | Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0110d_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 10.7 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0110f_01 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 15.9 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0110g_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 12.2 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0110h_01 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 15 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0110i_01 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 12.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0110j_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 15.1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0110k_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 24.3 | 3 | Municipal Point Sources (0200) Package Plants (0230) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|--------------------|--------------------|-----------------|----------|---|
| | | | | | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0112_00 | RIO HERRERA | RIO HERRERA | 17 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0117_01 | RIO ESPIRITU SANTO | RIO GRANDE | 19.8 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0117_02 | RIO ESPIRITU SANTO | RIO GRANDE | 2.5 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0118a_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 9.7 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0118c_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 2.1 | 1 | |
| PRER0121_00 | RIO MAMEYES | RIO MAMEYES | 1.6 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRER0122_00 | RIO MAMEYES | RIO MAMEYES | 1.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0123a_00 | RIO MAMEYES | RIO MAMEYES | 8.4 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0123b_00 | RIO MAMEYES | RIO MAMEYES | 17.3 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0123c_00 | RIO MAMEYES | RIO MAMEYES | 9.9 | 1 | |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|-----------------------|-----------------------|-----------------|----------|---|
| PRER0126a_00 | RIO SABANA | RIO PITAHAYA | 6.6 | 3 | Hydromodification (7000) Channelization (7100) Upstream Impoundment (7350) |
| PRER0126b_00 | RIO SABANA | RIO PITAHAYA | 10.8 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0126c_00 | RIO SABANA | RIO PITAHAYA | 0.6 | 1 | |
| PRER0127a_00 | RIO SABANA | RIO SABANA | 2.2 | 3 | Urban Runoff/Storm Sewers (4000) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0127b_01 | RIO SABANA | RIO SABANA | 3.7 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0127b_02 | RIO SABANA | RIO SABANA | 4.4 | 1 | |
| PRER0127c_00 | RIO SABANA | RIO SABANA | 2.6 | 1 | |
| PRER0127d_00 | RIO SABANA | RIO SABANA | 2.2 | 1 | |
| PRER0129_00 | RIO JUAN MARTIN | RIO JUAN MARTIN | 7.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0133a_00 | RIO FAJARDO | RIO FAJARDO | 1 | 3 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0133c_02 | RIO FAJARDO | RIO FAJARDO | 23.3 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRER0133d_00 | RIO FAJARDO | RIO FAJARDO | 9 | 1 | |
| PRER0135_00 | RIO DEMAJAGUA | RIO DEMAJAGUA | 2.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0138_00 | QUEBRADA AGUAS CLARAS | QUEBRADA AGUAS CLARAS | 4.8 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0141_00 | RIO DAGUAO | RIO DAGUAO | 9.5 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|----------------|-----------------|-----------------|----------|--|
| | | | | | Onsite Wastewater Systems (6500) |
| PRER0148_00 | RIO SANTIAGO | RÍO SANTIAGO | 2.6 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRER0149a_00 | RIO SANTIAGO | RIO SANTIAGO | 1.8 | 3 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0149b_01 | RIO SANTIAGO | RIO SANTIAGO | 6.5 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0149b_02 | RIO SANTIAGO | RIO SANTIAGO | 4.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0151a_01 | RIO BLANCO | RIO BLANCO | 0.9 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PRER0151a_02 | RIO BLANCO | RIO BLANCO | 13.6 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0151b_00 | RIO BLANCO | RIO BLANCO | 3.3 | 1 | |
| PRER0151c_00 | RIO BLANCO | RIO BLANCO | 5.8 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Confined Animal Feeding Operations (1640) |
| PRER0151d_01 | RIO BLANCO | RIO BLANCO | 28 | 3 | Agriculture (1000) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Confined Animal Feeding Operations (1640) |
| PRER0151d_02 | RIO BLANCO | RIO BLANCO | 6.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0155_00 | RIO ANTON RUIZ | RIO ANTON RUIZ | 12.4 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|------------------------|------------------------|-----------------|----------|---|
| | | | | | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0160a_00 | RIO HUMACAO | RIO HUMACAO | 8.9 | 3 | Land Disposal (6000) Landfills (6300) Hydromodification (7000) Upstream Impoundment (7350) |
| PRER0160c_00 | RIO HUMACAO | RIO HUMACAO | 17 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0160d_00 | RIO HUMACAO | RIO HUMACAO | 3.9 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0162_00 | RIO CANDELERO | RIO CANDELERO | 10.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0164_00 | RIO GUAYANES | RIO INGENIO | 32.6 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRER0165a_01 | RIO GUAYANES | RIO GUAYANES | 24.2 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0165a_02 | RIO GUAYANES | RIO GUAYANES | 0.9 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0165c_00 | RIO GUAYANES | RÍO GUAYANÉS | 17.3 | 3 | Municipal Point Sources (0200) Package Plants (0230) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0170a_00 | RIO MAUNABO | RIO MAUNABO | 13 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0170c_01 | RIO MAUNABO | RIO MAUNABO | 6.1 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRER0170c_02 | RIO MAUNABO | RIO MAUNABO | 0.9 | 1 | |
| PRNC0026_00 | QUEBRADA DE LOS CEDROS | QUEBRADA DE LOS CEDROS | 12 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNC0027_00 | QUEBRADA DEL TORO | QUEBRADA DEL TORO | 1 | 3 | Land Disposal (6000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|-----------------------|----------------------|-----------------|----------|--|
| | | | | | Onsite Wastewater Systems (6500) |
| PRNC0034_00 | QUEBRADA BELLACA | QUEBRADA BELLACA | 1.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNC0037_00 | QUEBRADA SECA | QUEBRADA SECA | 2 | 3 | Land Disposal Onsite Wastewater Systems (Septic Tanks) |
| PRNC0045_00 | RIO GRANDE DE ARECIBO | QUEBRADA FELIPA | 2.4 | 1 | |
| PRNK0052_00 | CAÑO TIBURONES | UNNAMED CREEK | 26.1 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNK0053_00 | CAÑO TIBURONES | ZANJA SAN JOSE | 1.1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNK0054_00 | CAÑO TIBURONES | CAÑO TIBURONES | 11.5 | 3 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRNK0062_00 | RIO CIBUCO | CAÑO CABO VERDE | 3.4 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0029b_01 | RIO GUAJATACA | RIO GUAJATACA | 0.9 | 1 | |
| PRNR0029b_02 | RIO GUAJATACA | RIO GUAJATACA | 3.4 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0031_00 | RIO GUAJATACA | RIO CHIQUIO DE CIBAO | 2.6 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0032a_00 | RIO GUAJATACA | RIO GUAJATACA | 8.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRNR0032b_00 | RIO GUAJATACA | RIO GUAJATACA | 7.7 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0036a_01 | RIO CAMUY | RIO CAMUY | 1 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) |
| PRNR0036a_02 | RIO CAMUY | RIO CAMUY | 1.4 | 1 | |
| PRNR0036b_00 | RIO CAMUY | RIO CAMUY | 5 | 1 | |
| PRNR0036c_00 | RIO CAMUY | RIO CAMUY | 6.3 | 1 | |
| PRNR0036d_00 | RIO CAMUY | RIO CAMUY | 2.3 | 1 | |
| PRNR0036e_00 | RIO CAMUY | RIO CAMUY | 32.6 | 1 | |
| PRNR0039_00 | RIO GRANDE DE ARECIBO | RIO SANTIAGO | 9 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) Septage Disposal (6700) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|-----------------------|-----------------------|-----------------|----------|--|
| PRNR0040b_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 7.4 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0041a_01 | RIO GRANDE DE ARECIBO | RIO TANAMA | 2.1 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0041a_02 | RIO GRANDE DE ARECIBO | RIO TANAMA | 5.5 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) |
| PRNR0041b_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.1 | 1 | |
| PRNR0041c_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 2 | 1 | |
| PRNR0041d_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.1 | 1 | |
| PRNR0041e_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.2 | 1 | |
| PRNR0041f_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.1 | 1 | |
| PRNR0041g_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.4 | 1 | |
| PRNR0041h_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.1 | 1 | |
| PRNR0041i_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.4 | 1 | |
| PRNR0041j_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.3 | 1 | |
| PRNR0041k_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 2.7 | 1 | |
| PRNR0041l_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.3 | 1 | |
| PRNR0041m_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.4 | 1 | |
| PRNR0041n_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 0.3 | 1 | |
| PRNR0041o_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 1.2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRNR0043_00 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 2.4 | 1 | |
| PRNR0046a_00 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 9.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRNR0046c_00 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 10.9 | 3 | Agriculture (1000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0046d_01 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 14.6 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0046d_02 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 23.6 | 3 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRNR0047e_00 | RIO GRANDE DE ARECIBO | RIO LIMON | 6.1 | 3 | Municipal Point Sources (0200) Package Plants (0230) Agriculture (1000) Land Disposal (6000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|-----------------------|-----------------------|-----------------|----------|--|
| | | | | | Onsite Wastewater Systems (6500) |
| PRNR0048b_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 19.9 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRNR0048c_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 4 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0050_00 | RIO GRANDE DE ARECIBO | RIO VACAS | 2.7 | 1 | |
| PRNR0056a_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 4.7 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0056b_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 3.3 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0056d_01 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 9.6 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRNR0056d_02 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 2.2 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Agriculture (1000) Confined animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRNR0056f_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 14 | 3 | Agriculture (1000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0056h_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 23.2 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0056i_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 14.3 | 1 | |
| PRNR0056j_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 27.4 | 1 | |
| PRNR0056k_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 3.2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0056l_01 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 7.5 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0056n_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 19.1 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Package Plants (0230) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|----------------------|-----------------|-----------------|----------|--|
| | | | | | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0058_00 | RIO GRANDE DE MANATI | RIO TORO NEGRO | 1.7 | 1 | |
| PRNR0060_00 | RIO GRANDE DE MANATI | RIO MATRUYAS | 3 | 1 | |
| PRNR0063a_00 | RIO CIBUCO | RIO CIBUCO | 5.5 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) |
| PRNR0063b_00 | RIO CIBUCO | RIO CIBUCO | 1.6 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRNR0063c_00 | RIO CIBUCO | RIO CIBUCO | 2.2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0063d_00 | RIO CIBUCO | RIO CIBUCO | 6.9 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0063e_02 | RIO CIBUCO | RIO CIBUCO | 3 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRNR0063f_00 | RIO CIBUCO | RIO CIBUCO | 51.2 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0063g_01 | RIO CIBUCO | RIO CIBUCO | 15.2 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRNR0063g_02 | RIO CIBUCO | RIO CIBUCO | 4.3 | 3 | Municipal Point Sources (0200) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|--------------------|--------------------|-----------------|----------|--|
| | | | | | Package Plants (0230) Agriculture (1000) Specialty Crop Production (1300) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0063h_00 | RIO CIBUCO | RIO CIBUCO | 34 | 3 | Collection System Failure (0500) Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0063j_00 | RIO CIBUCO | RIO CIBUCO | 3.2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNR0063k_00 | RIO CIBUCO | RIO CIBUCO | 3.5 | 3 | Agriculture (1000) Specialty Crop Production (1300) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0171_00 | QUEBRADA MANGLILLO | QUEBRADA MANGLILLO | 1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0172_00 | QUEBRADA FLORIDA | QUEBRADA FLORIDA | 3 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0174_00 | QUEBRADA PALENQUE | QUEBRADA PALENQUE | 1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0178_01 | RIO CHICO | QUEBRADA MAMEY | 4.6 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0178_02 | RIO CHICO | QUEBRADA MAMEY | 0.5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0185_00 | QUEBRADA YAUREL | QUEBRADA YAUREL | 6 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0188_00 | QUEBRADA SALADA | QUEBRADA SALADA | 1.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0190_00 | QUEBRADA CORAZON | QUEBRADA CORAZON | 9.7 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0192_00 | QUEBRADA BRANDERI | QUEBRADA BRANDERI | 4.5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0195_00 | QUEBRADA MELANIA | QUEBRADA MELANIA | 6 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0197_00 | QUEBRADA MELANIA | QUEBRADA MELANIA | 1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Landfills (6300) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|------------------------|-----------------------|-----------------|----------|--|
| PRSC0201_00 | QUEBRADA AMOROS | QUEBRADA AMOROS | 0.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0203_00 | QUEBRADA AGUAS VERDES | QUEBRADA AGUAS VERDES | 15 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0218_00 | RIO JACAGUAS | QUEBRADA GRANDE | 3.7 | 1 | |
| PRSC0221_00 | RIO JACAGUAS | QUEBRADA JAGUEYES | 1.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0227_00 | RIO MATILDE - PASTILLO | QUEBRADA DEL AGUA | 8 | 3 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRSC0237_00 | RIO YAUCO | QUEBRADA GRANDE | 7.7 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0238_00 | RIO YAUCO | QUEBRADA NARANJO | 4 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0239_00 | RIO YAUCO | UNNAMED CREEK | 2.3 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0245_00 | RIO LOCO | UNNAMED CREEK | 0.6 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSC0246_00 | RIO LOCO | QUEBRADA MANGO PRIETO | 0.9 | 1 | |
| PRSK0243_00 | RIO LOCO | CANAL DE DRENAJE | 66.5 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRSR0173_01 | RIO JACABOA | RIO JACABOA | 4.9 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0173_02 | RIO JACABOA | RIO JACABOA | 8.1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0176_00 | RIO CHICO | RIO CHICO | 1.8 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0179_01 | RIO CHICO | RIO DE APEADERO | 1.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0179_02 | RIO CHICO | RIO DE APEADERO | 3.3 | 3 | Land Disposal (6000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|------------------------|------------------------|-----------------|----------|--|
| | | | | | Onsite Wastewater Systems (6500) |
| PRSR0181_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 4 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Agriculture (1000) Confined animal Feeding Operations (1640) |
| PRSR0183_01 | RIO GRANDE DE PATILLAS | RIO MARIN | 6.5 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0183_02 | RIO GRANDE DE PATILLAS | RIO MARIN | 2.2 | 1 | |
| PRSR0184b_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 5.2 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0184c_01 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 6.4 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0184c_02 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 1.2 | 1 | |
| PRSR0184d_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 9 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) |
| PRSR0186_01 | RIO NIGUAS - ARROYO | RIO NIGUAS – ARROYO | 19.8 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0186_02 | RIO NIGUAS - ARROYO | RIO NIGUAS - ARROYO | 1.2 | 1 | |
| PRSR0193a_00 | RIO GUAMANI | RIO GUAMANI | 1.9 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) |
| PRSR0193b_00 | RIO GUAMANI | RIO GUAMANI | 6.5 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0193c_00 | RIO GUAMANI | RIO GUAMANI | 13.6 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0199_00 | RIO SECO | RIO SECO | 24.7 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRSR0205_00 | RIO NIGUAS DE SALINAS | RIO NIGUAS SALINAS | 29 | 3 | Municipal Point Sources (0200) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|-----------------------|------------------|-----------------|----------|---|
| | | | | | Resource Extraction (5000) Surface Mining (5100) |
| PRSR0206_01 | RIO NIGUAS DE SALINAS | RIO MAJADA | 68 | 3 | Agriculture (1000) Confined animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0206_02 | RIO NIGUAS DE SALINAS | RIO MAJADA | 5.5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0207_00 | RIO JUEYES | RIO JUEYES | 11 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Landfills (6300) |
| PRSR0208_00 | RIO CAYURES | RIO CAYURES | 5 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0210a_01 | RIO COAMO | RIO COAMO | 7.5 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRSR0210a_02 | RIO COAMO | RIO COAMO | 35.5 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRSR0210c_00 | RIO COAMO | RIO COAMO | 17.6 | 3 | Agriculture (1000) Specialty Crop Production (1300) Confined animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0210d_00 | RIO COAMO | RIO COAMO | 5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0210e_00 | RIO COAMO | RIO COAMO | 2.8 | 1 | |
| PRSR0210f_00 | RIO COAMO | RIO COAMO | 1.9 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0210g_00 | RIO COAMO | RIO COAMO | 18 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0212_00 | RIO DESCALABRADO | RIO DESCALABRADO | 18.8 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0213_00 | RIO CAÑAS | RIO CAÑAS | 8 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|--------------|-----------------|-----------------|----------|---|
| | | | | | Onsite Wastewater Systems (6500) |
| PRSR0215a_00 | RIO JACAGUAS | RIO JACAGUAS | 12.1 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0215b_00 | RIO JACAGUAS | RIO JACAGUAS | 3 | 3 | Agriculture (1000) Specialty Crop Production (1300) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRSR0215c_00 | RIO JACAGUAS | RIO JACAGUAS | 7.7 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0219_00 | RIO JACAGUAS | RIO TOA VACA | 27.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0220a_00 | RIO JACAGUAS | RIO JACAGUAS | 4.2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0220b_00 | RIO JACAGUAS | RIO JACAGUAS | 3 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRSR0220c_00 | RIO JACAGUAS | RIO JACAGUAS | 26.3 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0223a_00 | RIO INABON | RIO INABON | 14.1 | 3 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0223b_01 | RIO INABON | RIO INABON | 22.8 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|------------------------|------------------------|-----------------|----------|--|
| PRSR0223b_02 | RIO INABON | RIO INABON | 5.3 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0223c_01 | RIO INABON | RIO INABON | 23.3 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0223c_02 | RIO INABON | RIO INABON | 1.2 | 1 | |
| PRSR0224a_00 | RIO BUCANA - CERRILLOS | RIO BUCANA CERRILLOS | 27 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRSR0224c_00 | RIO BUCANA - CERRILLOS | RIO BUCANA CERRILLOS | 32.6 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0225a_00 | RIO PORTUGUES | RIO PORTUGUES | 3.2 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRSR0225c_00 | RIO PORTUGUES | RIO PORTUGUES | 14.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0225d_01 | RIO PORTUGUES | RIO PORTUGUES | 2.9 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0225d_02 | RIO PORTUGUES | RIO PORTUGUES | 0.6 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PRSR0225f_00 | RIO PORTUGUES | RIO PORTUGUES | 11 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0228a_01 | RIO MATILDE - PASTILLO | RIO MATILDE – PASTILLO | 24 | 3 | Industrial Point Sources (0100) Specialty Crop Production (1300) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|------------------------|----------------------------|-----------------|----------|--|
| PRSR0228a_02 | RIO MATILDE - PASTILLO | RIO MATILDE - PASTILLO | 1.6 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0228b_00 | RIO MATILDE - PASTILLO | RIO MATILDE – RIO PASTILLO | 4.2 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRSR0228c_01 | RIO MATILDE - PASTILLO | RIO MATILDE – RIO PASTILLO | 6.3 | 3 | Industrial Point Sources (0100) Specialty Crop Production (1300) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0228c_02 | RIO MATILDE - PASTILLO | RIO MATILDE – RIO PASTILLO | 7.1 | 3 | Agriculture (1000) Major Industrial Point Sources (0110) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0230a_00 | RIO TALLABOA | RIO TALLABOA | 2.1 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0230b_00 | RIO TALLABOA | RIO TALLABOA | 6.3 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0230c_01 | RIO TALLABOA | RIO TALLABOA | 18 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0230c_02 | RIO TALLABOA | RIO TALLABOA | 16.3 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0230d_01 | RIO TALLABOA | RIO TALLABOA | 15.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0230d_02 | RIO TALLABOA | RIO TALLABOA | 1.5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0232_01 | RIO MACANA | RIO MACANA | 20.8 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0232_02 | RIO MACANA | RIO MACANA | 0.9 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0233a_00 | RIO GUAYANILLA | RIO GUAYANILLA | 2.2 | 3 | Hydromodification (7000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|----------------|-----------------|-----------------|----------|--|
| | | | | | Upstream Impoundment (7350) |
| PRSR0233c_00 | RIO GUAYANILLA | RIO GUAYANILLA | 16 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0233d_01 | RIO GUAYANILLA | RIO GUAYANILLA | 15.3 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0233d_02 | RIO GUAYANILLA | RIO GUAYANILLA | 13 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0235a_00 | RIO YAUCO | RIO YAUCO | 18.2 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRSR0235b_00 | RIO YAUCO | RIO YAUCO | 1.8 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0235c_01 | RIO YAUCO | RIO YAUCO | 26.1 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0235c_02 | RIO YAUCO | RIO YAUCO | 15.3 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0240_00 | RIO YAUCO | RIO YAUCO | 18.3 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0242b_00 | RIO LOCO | RIO LOCO | 9.2 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSR0244_00 | RIO LOCO | RIO CAÑAS | 8 | 3 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRSR0248-A_00 | RIO LOCO | RIO LOCO | 19.5 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|-----------------------------|-----------------------------|-----------------|----------|---|
| | | | | | Onsite Wastewater Systems (6500) |
| PRSR0248-B_00 | RIO ARROYO CAJUL | RIO ARROYO CAJUL | 7.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0250_00 | QUEBRADA BOQUERON | QUEBRADA BOQUERON | 11.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0252_00 | QUEBRADA ZUMBON | QUEBRADA ZUMBON | 1.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Collection System Failure (0500) |
| PRWC0254_00 | QUEBRADA GONZALEZ | QUEBRADA GONZALEZ | 1.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0256_00 | QUEBRADA LOS PAJARITOS | QUEBRADA LOS PAJARITOS | 2.7 | 1 | |
| PRWC0258_00 | QUEBRADA IRIZARRY | QUEBRADA IRIZARRY | 2 | 1 | |
| PRWC0265_00 | CAÑO MERLE | QUEBRADA SABALOS | 9.5 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Resource Extraction (5000) Surface Mining (5100) |
| PRWC0269_00 | QUEBRADA DEL ORO | QUEBRADA DEL ORO | 10 | 3 | Urban Runoff/Storm Sewers (4000) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0272_00 | CAÑO BOQUILLA | UNNAMED CREEK | 4.2 | 3 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRWC0273_00 | CAÑO BOQUILLA | UNNAMED CREEK | 1.2 | 1 | |
| PRWC0274_00 | CAÑO BOQUILLA | UNNAMED CREEK | 3 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0283_01 | RIO GRANDE DE AÑASCO | UNNAMED CREEK | 1.5 | 1 | |
| PRWC0283_02 | RIO GRANDE DE AÑASCO | UNNAMED CREEK | 0.4 | 1 | |
| PRWC0285_00 | QUEBRADA JUSTO | QUEBRADA JUSTO | 1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0286_00 | QUEBRADA ICACOS | QUEBRADA ICACOS | 1.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0287_00 | QUEBRADA CAGUABO | QUEBRADA CAGUABO | 1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0290_00 | QUEBRADA GRANDE DE CALVACHE | QUEBRADA GRANDE DE CALVACHE | 14.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0292_00 | QUEBRADA LOS RAMOS | QUEBRADA LOS RAMOS | 6.9 | 3 | Collection System Failure (0500) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRWC0293_00 | QUEBRADA PUNTA ENSENADA | QUEBRADA PUNTA ENSENADA | 5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWC0294_00 | QUEBRADA PILETAS | QUEBRADA PILETAS | 2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|---------------------|---------------------------|-----------------|----------|--|
| PRWK0257_00 | CAÑO CONDE AVILA | CAÑO CONDE AVILA | 4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWK0266_00 | CAÑO MERLE | CAÑO MERLE | 1.6 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWK0270_00 | CAÑO MANI | CAÑO MANI | 3 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWK0275_00 | CAÑO BOQUILLA | CAÑO BOQUILLA | 3.9 | R | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWK0288_00 | CAÑO GARCIA | CAÑO GARCIA | 2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWK0298_00 | CAÑO DE SANTI PONCE | CAÑO DE SANTI PONCE | 4.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWK0306_00 | CAÑO CORAZONES | CAÑO CORAZONES | 1.3 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0260_00 | RIO GUANAJIBO | LAGUNA BOCANICILLA | 1.7 | 1 | |
| PRWR0261_00 | RIO GUANAJIBO | RIO HONDO | 17.2 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) |
| PRWR0262a_00 | RIO GUANAJIBO | RIO GUANAJIBO | 13.5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRWR0262c_00 | RIO GUANAJIBO | RIO GUANAJIBO (RIO VIEJO) | 21.1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) |
| PRWR0262d_00 | RIO GUANAJIBO | RIO GUANAJIBO | 8.4 | 3 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Hydromodification (7000) Upstream Impoundment (7350) |
| PRWR0262f_00 | RIO GUANAJIBO | RIO GUANAJIBO | 22.7 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0262g_01 | RIO GUANAJIBO | RIO GUANAJIBO | 6.5 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRWR0262g_02 | RIO GUANAJIBO | RIO GUANAJIBO | 2.1 | 1 | |
| PRWR0262h_00 | RIO GUANAJIBO | RIO GUANAJIBO | 1.6 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PRWR0262j_01 | RIO GUANAJIBO | RIO GUANAJIBO | 8.6 | 1 | Land Disposal (6000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|----------------------|---|-----------------|----------|--|
| | | | | | Onsite Wastewater Systems (6500) Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0262j_02 | RIO GUANAJIBO | RIO GUANAJIBO | 5.3 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0262k_01 | RIO GUANAJIBO | RIO GUANAJIBO | 2.7 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0262k_02 | RIO GUANAJIBO | RIO GUANAJIBO | 3.9 | 1 | |
| PRWR0262l_01 | RIO GUANAJIBO | RIO GUANAJIBO | 13.7 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0262l_02 | RIO GUANAJIBO | RIO GUANAJIBO | 8.7 | 1 | |
| PRWR0262m_00 | RIO GUANAJIBO | RIO GUANAJIBO | 2.1 | 3 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRWR0263a_00 | RIO GUANAJIBO | RIO GUANAJIBO | 60.7 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0263b_00 | RIO GUANAJIBO | RIO GUANAJIBO (RIO CRUCES) | 4.3 | 1 | |
| PRWR0263c_00 | RIO GUANAJIBO | RIO GUANAJIBO (RIO GRANDE) | 2 | 1 | |
| PRWR0263d_00 | RIO GUANAJIBO | RIO GUANAJIBO (RIO GRANDE/QDA. CULEBRA) | 16.6 | 1 | |
| PRWR0268a_00 | RIO YAGÜEZ | RIO YAGÜEZ | 5.8 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Industrial Point Sources (0100) Minor Industrial Point Sources (0120) |
| PRWR0268b_00 | RIO YAGÜEZ | RIO YAGÜEZ | 8.2 | 1 | |
| PRWR0268d_00 | RIO YAGÜEZ | RIO YAGÜEZ | 6.2 | 1 | |
| PRWR0277_00 | RIO GRANDE DE AÑASCO | RIO DAGUEY | 11 | 3 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0278_00 | RIO GRANDE DE AÑASCO | RIO CAÑAS | 54.4 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0279b_01 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 28 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0279b_02 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 2.3 | 3 | Agriculture (1000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|----------------------|----------------------|-----------------|----------|--|
| | | | | | Specialty Crop Production (1300) |
| PRWR0279c_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 2.2 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0279d_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 2.5 | 1 | |
| PRWR0279e_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 3.7 | 1 | |
| PRWR0279f_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 1 | 1 | |
| PRWR0279g_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 20.6 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRWR0279h_02 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 0.2 | 1 | |
| PRWR0279i_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 16 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0279j_01 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 50.9 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0279j_02 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 1.7 | 1 | |
| PRWR0279k_01 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 54.8 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0279k_02 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 13.7 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0279k_03 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 4.4 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0279k_04 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 1.2 | 1 | |
| PRWR0279k_05 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 3.7 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PRWR0279m_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 2.8 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0279n_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 61.8 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0279o_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 48.8 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0280_00 | RIO GRANDE DE AÑASCO | RIO ARENAS | 18.3 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Agriculture (1000) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|----------------------|-----------------|-----------------|----------|---|
| | | | | | Specialty Crop Production (1300) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PRWR0282_00 | RIO GRANDE DE AÑASCO | RIO CIDRA | 1.6 | 3 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0284_01 | RIO GRANDE DE AÑASCO | RIO GUAYO | 5.5 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0284_02 | RIO GRANDE DE AÑASCO | RIO GUAYO | 3.3 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0284_03 | RIO GRANDE DE AÑASCO | RIO GUAYO | 0.4 | 3 | Agriculture (1000) Specialty Crop Production (1300) |
| PRWR0296_00 | RIO GRANDE | RIO GRANDE | 21.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0300_00 | RIO GUAYABO | RIO INGENIO | 22.1 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0301_00 | RIO GUAYABO | RIO CULEBRA | 18.4 | 3 | Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0302_00 | RIO GUAYABO | RIO GUAYABO | 2.6 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0304b_01 | RIO CULEBRINAS | RIO CULEBRINAS | 10.4 | 1 | |
| PRWR0304b_02 | RIO CULEBRINAS | RIO CULEBRINAS | 1.8 | 1 | |
| PRWR0304c_00 | RIO CULEBRINAS | RIO CULEBRINAS | 3 | 1 | |
| PRWR0304d_00 | RIO CULEBRINAS | RIO CULEBRINAS | 111.9 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0304e_02 | RIO CULEBRINAS | RIO CULEBRINAS | 5.1 | 1 | |
| PRWR0304f_00 | RIO CULEBRINAS | RIO CULEBRINAS | 30 | 3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWR0305_01 | RIO CULEBRINAS | RIO CULEBRINAS | 44.5 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-------------------------|----------------|-----------------|-----------------|----------|---|
| | | | | | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) |
| PRWR0305_02 | RIO CULEBRINAS | RIO CULEBRINAS | 35.9 | 3 | Agriculture (1000) Specialty Crop Production (1300) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) |

PART IV
LAKES AND LAGOONS ASSESSMENT

**LAKES WATER QUALITY ASSESSMENT SUMMARY
PUERTO RICO 2002-305(b)/303(d) REPORT**

| CATEGORY | MONITORED* (acres) | TOTAL ACRES |
|-----------------|-------------------------------|--------------------|
| Category 1 | 7,324 | 7,324 |
| Category 2 | - | - |
| Category 3 | - | 54** |
| Category 4b | - | - |
| Category 5 | 7,324 | 7,324 |
| Total | 7,324 | 7,378 |

* The attainment determination was based in water quality data.

** Even though the total lakes acres are 7,378, only 7,324 were assessed because the monitoring of lake Guineo (54 acres) was not possible due to access problems.

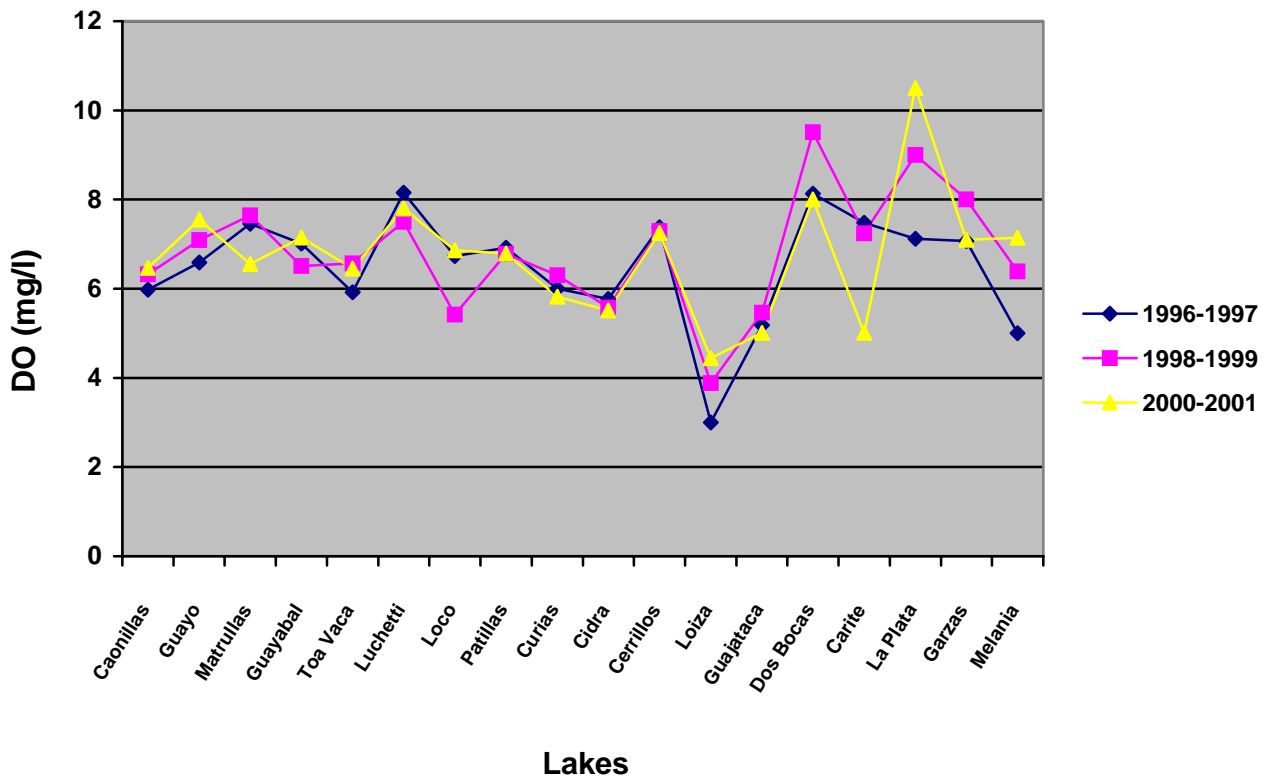
**ASSESSMENT FOR MONITORED LAKES WITH SOURCES AND CAUSES
PUERTO RICO 2002 – 305(b)/303(d) REPORT**

| <u>ASSESSMENT UNIT</u> | LAKE NAME | LAKE SIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|------------------------|----------------|-------------------|----------|--|---|
| PRNL0044_00 | LAGO CAONILLAS | 700 | 5 | | Low Dissolved Oxygen (1200) |
| PREL0105_00 | LAGO LOIZA | 713 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Agriculture (1000) Specialty Crop Production (1300) Hydromodification (7000) | Low Dissolved Oxygen (1200) Other Inorganics (0800) Manganese |
| PRSL0182_00 | LAGO PATILLAS | 312 | 5 | | Low Dissolved Oxygen (1200) |
| PRSL0196_00 | LAGO MELANIA | 35 | 5 | | Low Dissolved Oxygen (1200) |
| PRSL0216_00 | LAGO GUAYABAL | 373 | 5 | | Low Dissolved Oxygen (1200) |
| PRSL0217_00 | LAGO TOA VACA | 836 | 5 | | Low Dissolved Oxygen (1200) |
| PRSL0236_00 | LAGO L;UCHETTI | 266 | 5 | | Low Dissolved Oxygen (1200) |
| PRSL0247_00 | LAGO LOCO | 69 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Agriculture (1000) Crop Production (1300) | Low Dissolved Oxygen (1200) |
| PRSL0224c_00 | LAGO CERRILLOS | 700 | 5 | | Low Dissolved Oxygen (1200) |
| PRWL0281_00 | LAGO GUAYO | 285 | 5 | | Low Dissolved Oxygen (1200) |

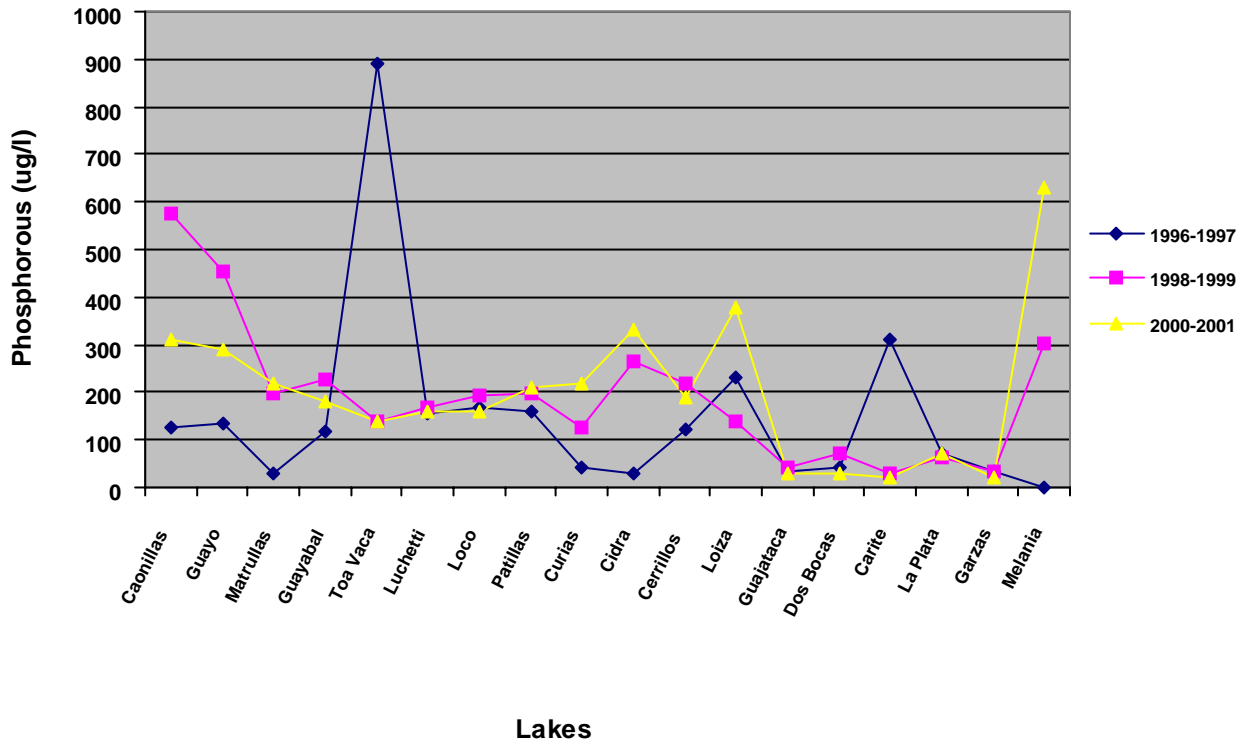
| ASSESSMENT UNIT | LAKE NAME | LAKE SIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-----------------|-----------------|-------------------|----------|--|--|
| PRNL0030_00 | LAGO GUAJATACA | 1000 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Animal Feeding Operations (1600) Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) | Metals (0500) Arsenic (0510) Other Inorganics (0800) Manganese Low Dissolved Oxygen (1200) |
| PRNL0042_00 | LAGO DOS BOCAS | 634 | 5 | | Low Dissolved Oxygen (1200) |
| PREL0089_00 | LAGO LAS CURIAS | 55 | 5 | | Low Dissolved Oxygen (1200) |
| PREL0082_00 | LAGO CIDRA | 268 | 5 | Animal Feeding Operations (1600) Minor Industrial Point Source (0120) Land Disposal (6000) Onsite Wastewater Systems (6500) | Low Dissolved Oxygen (1200) |
| PREL0067_00 | LAGO LA PLATA | 560 | 5 | | Low Dissolved Oxygen (1200) |
| PREL0076_00 | LAGO CARITE | 333 | 5 | | Low Dissolved Oxygen (1200) |
| PRNL0059_00 | LAGO MATRULLAS | 77 | 5 | | Low Dissolved Oxygen (1200) |
| PRNL0049_00 | LAGO GARZAS | 108 | 5 | | Low Dissolved Oxygen (1200) |
| PRNL0057_00 | LAGO GUINEO* | 54 | 3 | - | - |

* This lake was not assessed for lack of water quality data, because the access for the water body was not possible.

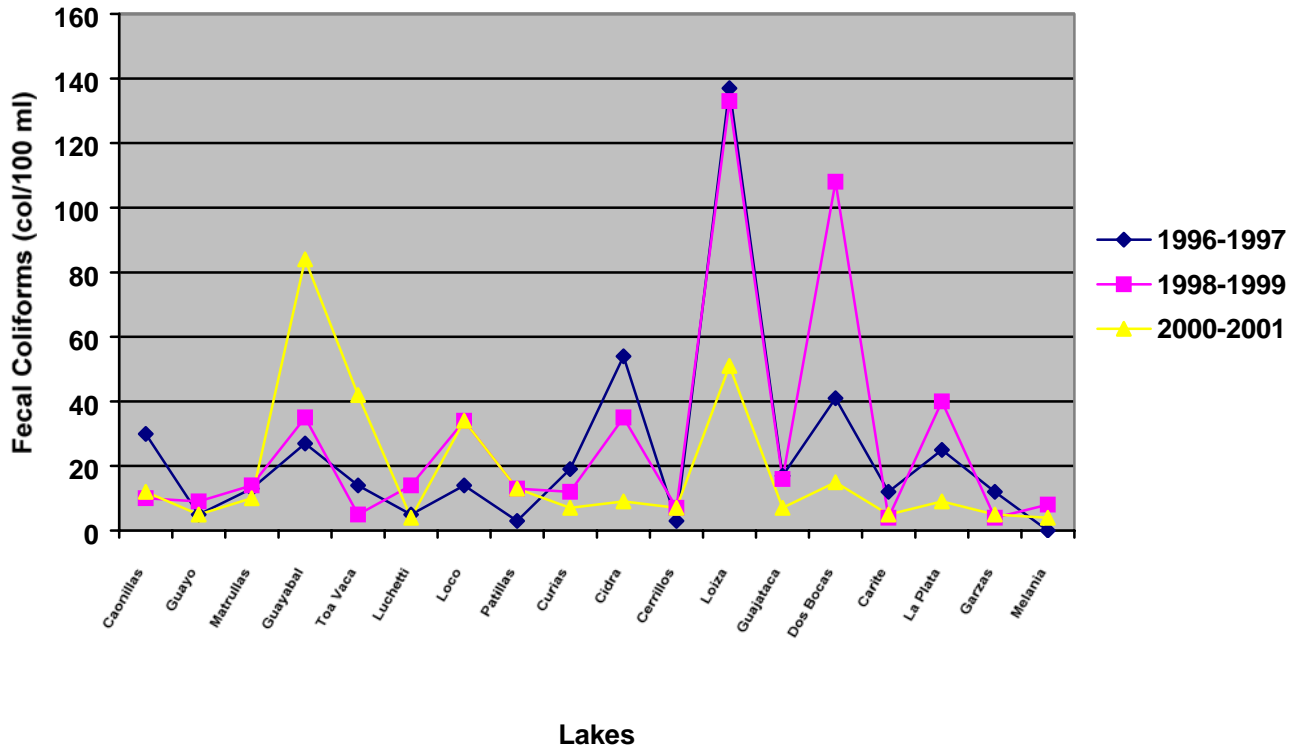
Trends Analyses For Dissolved Oxygen (mg/l)
Puerto Rico 2002 - 305(b)/303(d) Report



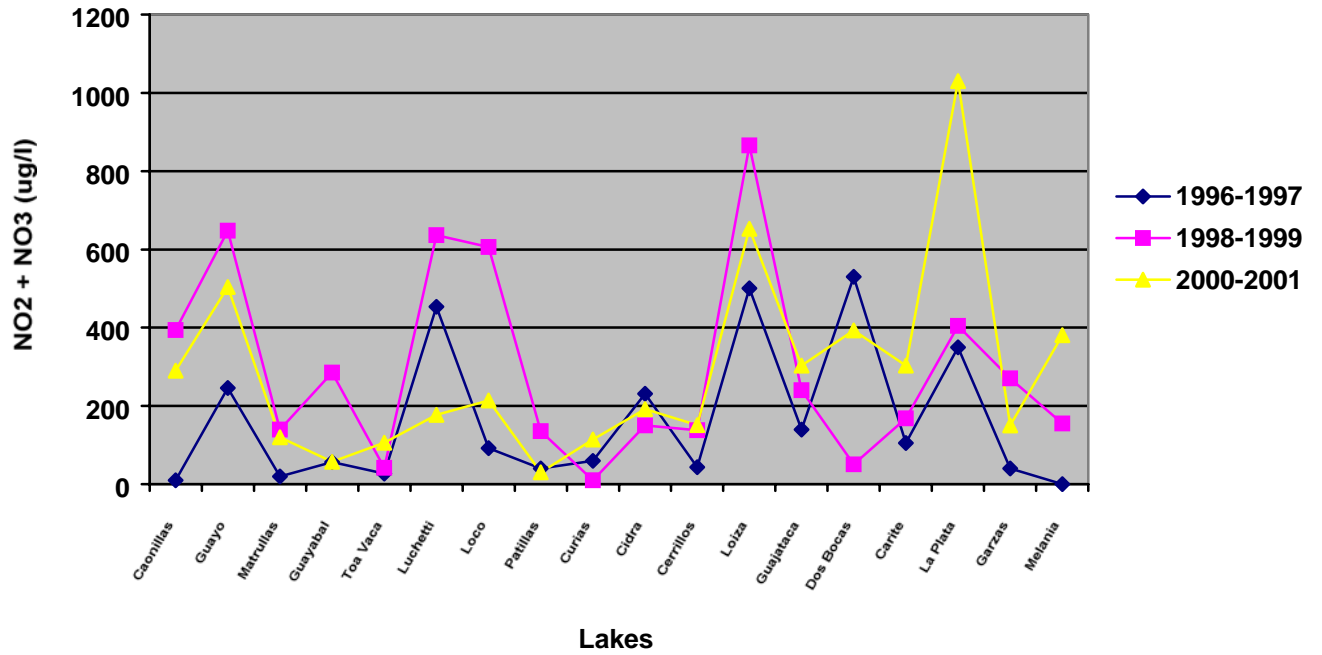
Trends Analyses For Phosphorus (ug/l)
Puerto Rico 2002 – 305(b)/303(d) Report



**Trends Analyses For Fecal Coliforms (col/100 ml)
Puerto Rico 2002 - 305(b)/303(d) Report**



Trends Analyses For NO2 +NO3 (ug/l)
 Puerto Rico 2002 - 305(b)/303(d) Report



PUERTO RICO 2002 – 305(b)/303(d) REPORT

OPSI/CEPIS Criteria for the Determination of the Trophic Status

| Trophic Status | P concentration (mg/l) |
|----------------|------------------------|
| Oligotrophic | < 0.03 |
| Mesotrophic | 0.03 – 0.05 |
| Eutrophic | > 0.05 |

PUERTO RICO LAKES TROPHIC STATUS

| LAKE | WATERBODY ID | TROPIC STATUS P (mg/l)* |
|-----------|--------------|----------------------------|
| Caonillas | PRNL0044 | Eutrophic (0.31) |
| Guayo | PRNL0281 | Eutrophic (0.29) |
| Matrullas | PRNL0059 | Eutrophic (0.22) |
| Guayabal | PRNL0216 | Eutrophic (0.18) |
| Toa Vaca | PRSL0217 | Eutrophic (0.14) |
| Luchetti | PRSL0236 | Eutrophic (0.16) |
| Loco | PRSL0247 | Eutrophic (0.16) |
| Patillas | PRSL0182 | Eutrophic (0.21) |
| Curias | PREL0089 | Eutrophic (0.22) |
| Cidra | PREL0076 | Eutrophic (0.33) |
| Cerrillos | PRSL0224C | Eutrophic (0.19) |
| Loiza | PREL0105 | Eutrophic (0.38) |
| Guajataca | PRNL0030 | Mesotrophic (0.03) |
| Dos Bocas | PRNL0042 | Mesotrophic (0.03) |
| Carite | PREL0076 | Oligotrophic (<0.02) |
| La Plata | PREL0067 | Eutrophic (0.07) |
| Garzas | PRNL0049 | Oligotrophic (<0.02) |
| Melania | PRSL0196 | Eutrophic (0.63) |

* The phosphorus value correspond to the mean of the data collected in each lake during a period of two years and not represent water quality standard exceedance. The P.R water quality standard for phosphorus is 1mg/L.

PUERTO RICO 2002 – 305(b)/303(d) REPORT

Trend Analyses for Selected Parameters in Puerto Rico Lakes

| LAKES | DO | P (TOTAL) | NO2+NO3 | FECAL COLIFORMS |
|--------------|-----------|------------------|----------------|------------------------|
| Caonillas | Improved | Improved | Improved | Stable |
| Guayo | Improved | Improved | Improved | Improved |
| Matrullas | Degraded | Degraded | Improved | Improved |
| Guayabal | Improved | Improved | Improved | Degraded |
| Toa Vaca | Stable | Stable | Degraded | Degraded |
| Luchetti | Improved | Stable | Improved | Improved |
| Loco | Improved | Improved | Improved | Stable |
| Patillas | Stable | Degraded | Improved | Stable |
| Curias | Degraded | Degraded | Degraded | Improved |
| Cidra | Stable | Degraded | Degraded | Improved |
| Cerrillos | Stable | Improved | Degraded | Stable |
| Loiza | Improved | Degraded | Improved | Improved |
| Guajataca | Degraded | Stable | Degraded | Improved |
| Dos Bocas | Degraded | Improved | Degraded | Improved |
| Carite | Degraded | Improved | Degraded | Stable |
| La Plata | Improved | Stable | Degraded | Improved |
| Garzas | Degraded | Improved | Improved | Stable |
| melania | Improved | Degraded | Degraded | Improved |

Trends in Significant Public Lakes Category

| Parameter | Improved (acres) | Degraded (acres) | Stable (acres) |
|------------------------|-------------------------|-------------------------|-----------------------|
| DO | 3001 | 2207 | 2116 |
| Phosphorous | 3202 | 1460 | 2662 |
| NO2 + NO3 | 2903 | 4421 | N/A |
| Fecal Coliforms | 3893 | 1209 | 2222 |

Note: These trends analyses was based on OPSI/CEPIS criteria but not in the P.R. water quality standards.

**LAGOONS WATER QUALITY ASSESSMENT SUMMARY
PUERTO RICO 2002-305(b)/303(d) REPORT**

| CATEGORY | MONITORED* (acres) | EVALUATED** (acres) | TOTAL ACRES |
|-----------------|-------------------------------|--------------------------------|--------------------|
| Category 1 | 554 | 1,376 | 1,930 |
| Category 2 | - | - | - |
| Category 3 | - | 1,709 | 1,709 |
| Category 4b | - | - | - |
| Category 5 | 1,129 | - | 1,129 |
| Total | 1,683 | 3,085 | 4,768 |

* The attainment determination was based in water quality data.

** The attainment determination was based in the information obtained through field inspections, pollution sources inventories and best profesional judgment of qualified personnel.

**ASSESSMENT FOR MONITORED LAGOONS WITH SOURCES AND CAUSES
PUERTO RICO 2002 – 305(b)/303(d) REPORT**

| <u>ASSESSMENT UNIT</u> | NAME | SIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|-----------------------------------|-------------------|-------------------------|-----------------|---|---|
| PRNN0006_00 | LAGUNA TORTUGUERO | 554 | 1 | | |
| PREN0008_00 | LAGUNA SAN JOSE | 1129 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) Collection System Failure (0500) | Pathogens (1700) Fecal Coliforms Low Dissolved Oxygen (1200) Ph (1000) |

**ASSESSMENT FOR NON MONITORED LAGOONS WITH SOURCES
PUERTO RICO 2002 – 305(b)/303(d) REPORT**

| SEGMENT UNITY | LAGOON NAME | ACRES | <u>CATEGORY</u> | <u>SOURCES OF POLLUTION</u> |
|--------------------------|------------------------------|--------------|------------------------|--|
| PRWN0005_00 | LAGUNA JOYUDA | 339 | 1 | |
| PRNN0007_00 | LAGUNA MATA REDONDA | 15 | 1 | |
| PREN0009_00 | LAGUNA TORRECILLA | 608 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREN0010_00 | LAGUNA PIÑONES | 249 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREN0011_00 | LAGUNA AGUAS PRIETAS | 128 | 1 | |
| PREN0012_00 | LAGUNA GRANDE | 216 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREN0013_00 | LAGUNA CEIBA | 120 | 3 | Marinas and Recreation Boating (7900) |
| PRSN0014_00 | LAGUNA POZUELO | 35 | 1 | |
| PRSN0015_00 | LAGUNA MAR NEGRO | 208 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSN0016_00 | LAGUNA PUNTA ARENAS | 18 | 1 | |
| PRSN0017_00 | LAGUNA TIBURONES | 14 | 3 | Land Disposal (6000) Landfills (6300) |
| PRSN0018_00 | LAGUNA SALINAS | 77 | 1 | |
| PRSN0019_00 | LAGUNA SALINAS 1 | 294 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSN0020_00 | LAGUNA CABO ROJO 2 | 190 | 1 | |
| PRSN0021_00 | LAGUNA EL FARO (CABO ROJO 3) | 69 | 1 | |
| PRSN0022_00 | LAGUNA RINCON | 183 | 1 | |
| PRSN0023_00 | LAGUNA GUANIQUILLA | 22 | 1 | |
| PRSN0024_00 | LAGUNA CARTAGENA | 300 | 1 | |

PART V

COASTAL WATERS ASSESSMENT

**COASTAL WATERS WATER QUALITY ASSESSMENT SUMMARY
PUERTO RICO 2002-305(b)/303(d) REPORT**

| CATEGORY | NOT** MOITORED (MILES) | MONITORED* (MILES) | TOTAL MILES |
|-----------------|---------------------------------------|-------------------------------|--------------------|
| Category 1 | 156.4 | 101 | 257.4 |
| Category 2 | - | 61.4 | 61.4 |
| Category 3 | 207.5 | - | 207.5 |
| Category 4b | - | 23.6 | 23.6 |
| Category 5 | - | - | - |
| Total | 363.9 | 186.6 | 549.9 |

* The attainment determination was based in water quality data.

** The attainment was based best profesional judgment, partial ambient monitoring data and other water quality data.

**PUERTO RICO COASTAL WATER QUALITY ASSESSMENT SUMMARY
 PUERTO RICO 2002 – 305(b)/303(d) REPORT
 (EAST COAST)**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (Miles) | CATEGORY (Miles) | | | | |
|----------------|--|----------------------|------------------|-----|---|-----|---|
| | | | 1 | 2 | 3 | 4b | 5 |
| PRES0002z19_01 | COSTA ESTE – PUERTO DE YABUCOA | 0.5 | | 0.5 | | | |
| PRES0002z19_02 | COSTA ESTE - PTA. QUEBRADA HONDA A PTA. YEGUAS | 1.1 | | 1.1 | | | |
| PRES0002z2_00 | COSTA ESTE - BALNEARIO SEVEN SEAS, BAHIA LAS CABEZAS | 3 | 3.0 | | | | |
| PRES0002z21_00 | COSTA ESTE – PUERTO DE MAUNABO | 3 | 3.0 | | | | |
| PRES0002z5_00 | COSTA ESTE - RIO FAJARDO | 1.8 | | | | 1.8 | |
| PRES0002z9_00 | COSTA ESTE – PUERTO DE NAGUABO, BAHIA DE LIMA | 1.9 | | | | 1.9 | |
| PRES0002a_01 | COSTA ESTE - PLAYA LOS TOCONES VEGA ALTA Y DORADO | 2.8 | | 2.8 | | | |
| PRES0002a_02 | COSTA ESTE - PLAYA DE SARDINERA, DORADO | 1.9 | | 1.9 | | | |
| PRES0002b_00 | COSTA ESTE - MOUTH OF RIO LA PLATA | 3 | | | | 3.0 | |
| PRES0002d_00 | COSTA ESTE - PTA. COROZO A PTA. SALINAS | 2 | 2.0 | | | | |
| PRES0002e_00 | COSTA ESTE - PUNTA SALINAS, LEVITTOWN | 0.2 | | 0.2 | | | |
| PRES0002f_00 | COSTA ESTE - ENSENADA DE BOCA VIEJA, LEVITTOWN | 3 | 3.0 | | | | |
| PRES0002g_02 | COSTA ESTE - CAÑO SAN ANTONIO TO BAHIA DE SAN JUAN | 5.5 | | | | 5.5 | |
| PRES0002h_00 | COSTA ESTE - LAGUNA DEL CONDADO | 0.6 | 0.6 | | | | |
| PRES0002i_00 | COSTA ESTE – LAGUNA DEL CONDADO | 0.5 | | | | 0.5 | |
| PRES0002j_00 | COSTA ESTE – LAGUNA DEL CONDADO | 0.6 | | | | 0.6 | |
| PRES0002m_01 | COSTA ESTE – PARQUE SIXTO ESCOBAR | 0.5 | | 0.5 | | | |
| PRES0002m_02 | COSTA ESTE -EL ESCAMBRON | 0.5 | | 0.5 | | | |

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (Miles) | CATEGORY (Miles) | | | | | |
|----------------|--|----------------------|------------------|------|---|----|------|--|
| | | | 1 | 2 | 3 | 4b | 5 | |
| PRES0002m_03 | COSTA ESTE - FUERTE SAN GERONIMO | 0.9 | 0.9 | | | | | |
| PRES0002n_00 | COSTA ESTE -AVE. ASHFORD, LAGUNA DEL CONDADO | 1.2 | 1.2 | | | | | |
| PRES0002o_00 | COSTA ESTE - EL CONDADO | 0.3 | 0.3 | | | | | |
| PRES0002p_00 | COSTA ESTE - PUNTA PIEDRITA TO HOSP.ASHFORD | 0.4 | 0.4 | | | | | |
| PRES0002r_00 | COSTA ESTE – PARQUE OCEAN PARK | 1.8 | 1.8 | | | | | |
| PRES0002s_00 | COSTA ESTE - CEM. PR MEMORIAL A ISLA VERDE | 1.3 | 1.3 | | | | | |
| PRES0002t_00 | COSTA ESTE – BALNEARIO DE ISLA VERDE | 2.2 | 2.2 | | | | | |
| PRES0002u_02 | COSTA ESTE - DESDE PIÑONES HASTA PLAYA TRES PALMITAS | 2.2 | | 2.2 | | | | |
| PRES0002u_03 | COSTA ESTE - PUNTA VACIA TALEGA | 2.1 | | 2.1 | | | | |
| PRES0002u_01 | COSTA ESTE - PTA. CANGREJOS TO PIÑONES | 2.5 | | 2.5 | | | | |
| PRES0002w_00 | COSTA ESTE - PUNTA IGLESIAS | 1.2 | | 1.2 | | | | |
| PRES0002x_00 | COSTA ESTE -PTA. UVERO TO PTA. SAN AGUSTIN | 3 | | 3.0 | | | | |
| PRES0002Q | AVE DE DIEGO FINAL SAN JUAN | 0.6 | 0.6 | | | | | |
| PRES0002z_00 | COSTA ESTE – BALNEARIO DE LUQUILLO | 3 | 3.0 | | | | | |
| PRES0002z1_01 | COSTA ESTE – LUQUILLO | 1.6 | | 1.6 | | | | |
| PRES0002z10_02 | COSTA ESTE – DESEMBOCADURA DE RIO ANTON RUIZ | 1.5 | | 1.5 | | | | |
| PRES0002z10_01 | COSTA ESTE – PUERTO DE NAGUABO | 0.8 | 0.8 | | | | | |
| PRES0002z11_00 | COSTA ESTE - BOCA PRIETA | 0.3 | | 0.3 | | | | |
| PRES0002z12_00 | COSTA ESTE - PLAYA DE HUMACAO | 2.4 | 2.4 | | | | | |
| PRES0002z14_00 | COSTA ESTE - RIO HUMACAO | 3 | 3.0 | | | | | |
| PRES0002z17_00 | COSTA ESTE - PLAYA GUAYANES | 2.1 | 2.1 | | | | | |
| PRES0002z18_00 | COSTA ESTE – PUERTO DE YABUCOA | 2.1 | 2.1 | | | | | |
| | Total | 68.9 | 33.7 | 21.9 | | | 13.3 | |

**ASSESSMENT FOR MONITORED COASTAL WATERS WITH SOURCES AND CAUSES
(EAST REGION)
PUERTO RICO 2002 - 305(b)/303(d) REPORT**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES | CAUSES |
|----------------|--|----------------------|----------|--|---|
| PRES0002z19_01 | COSTA ESTE - PUERTO DE YABUCOA | 0.5 | 2 | | |
| PRES0002z19_02 | COSTA ESTE - PTA. QUEBRADA HONDA A PTA. YEGUAS | 1.1 | 2 | | |
| PRES0002z2_00 | COSTA ESTE - BALNEARIO SEVEN SEAS, BAHIA LAS CABEZAS | 3 | 1 | | |
| PRES0002z21_00 | COSTA ESTE - PUERTO DE MAUNABO | 3 | 1 | | |
| PRES0002z5_00 | COSTA ESTE - RIO FAJARDO | 1.8 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Marinas and Recreation Boating (7900) | Pathogens (1700) Enterococcus |
| PRES0002z9_00 | COSTA ESTE - PUERTO DE NAGUABO, BAHIA DE LIMA | 1.9 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) | Pathogens (1700) Fecal Coliform Enterococcus Ph (1000) |
| PRES0002a_01 | COSTA ESTE - PLAYA LOS TOCONES VEGA ALTA Y DORADO | 2.8 | 2 | | |
| PRES0002a_02 | COSTA ESTE - PLAYA DE SARDINERA, DORADO | 1.9 | 2 | | |
| PRES0002b_00 | COSTA ESTE - RIO LA PLATA | 3 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) | Pathogens (1700) Enterococcus Ph (1000) |
| PRES0002d_00 | COSTA ESTE - PTA. COROZO A PTA. SALINAS | 2 | 1 | | |
| PRES0002e_00 | COSTA ESTE - PUNTA SALINAS, LEVITTOWN | 0.2 | 2 | | |
| PRES0002f_00 | COSTA ESTE - ENSENADA DE BOCA VIEJA, LEVITTOWN | 3 | 1 | | |
| PRES0002g_02 | COSTA ESTE - CAÑO SAN ANTONIO TO BAHIA DE SAN JUAN | 5.5 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Industrial Point Sources (0100) Major Industrial Point Sources (0110) Minor Industrial Point Sources (0120) Minor Industrial Point Sources (0120) | Pathogens (1700) Fecal Coliforms |
| PRES0002h_00 | COSTA ESTE - LAGUNA DEL CONDADO | 0.6 | 1 | | |
| PRES0002i_00 | COSTA ESTE - LAGUNA DEL CONDADO | 0.5 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Collection System Failure (0500) | Pathogens (1700) Enterococcus |

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES | CAUSES |
|----------------|--|----------------------|----------|--|----------------------------------|
| PRES0002j_00 | COSTA ESTE - LAGUNA DEL CONDADO | 0.6 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) | Pathogens (1700) Enterococcus |
| PRES0002m_01 | COSTA ESTE - PARQUE SIXTO ESCOBAR | 0.5 | 2 | | |
| PRES0002m_02 | COSTA ESTE -EL ESCAMBRON | 0.5 | 2 | | |
| PRES0002m_03 | COSTA ESTE - FUERTE SAN GERONIMO | 0.9 | 1 | | |
| PRES0002n_00 | COSTA ESTE -AVE. ASHFORD, LAGUNA DEL CONDADO | 1.2 | 1 | | |
| PRES0002o_00 | COSTA ESTE - EL CONDADO | 0.3 | 1 | | |
| PRES0002p_00 | COSTA ESTE - PUNTA PIEDRITA TO HOSP.ASHFORD | 0.4 | 1 | | |
| PRES0002r_00 | COSTA ESTE - PARQUE OCEAN PARK | 1.8 | 1 | | |
| PRES0002s_00 | COSTA ESTE - CEM. PR MEMORIAL A ISLA VERDE | 1.3 | 1 | | |
| PRES0002t_00 | COSTA ESTE - BALNEARIO DE ISLA VERDE | 2.2 | 1 | | |
| PRES0002u_02 | COSTA ESTE - DESDE PIÑONES HASTA PLAYA TRES PALMITAS | 2.2 | 2 | | |
| PRES0002u_03 | COSTA ESTE - PUNTA VACIA TALEGA | 2.1 | 2 | | |
| PRES0002u_01 | COSTA ESTE - PTA. CANGREJOS TO PIÑONES | 2.5 | 2 | | |
| PRES0002w_00 | COSTA ESTE - PUNTA IGLESIAS | 1.2 | 2 | | |
| PRES0002x_00 | COSTA ESTE -PTA. UVERO TO PTA. SAN AGUSTIN | 3 | 2 | | |
| PRES0002Q | AVE DE DIEGO FINAL SAN JUAN | 0.6 | 1 | | |
| PRES0002z_00 | COSTA ESTE - BALNEARIO DE LUQUILLO | 3 | 1 | | |
| PRES0002z1_01 | COSTA ESTE - LUQUILLO | 1.6 | 2 | | |
| PRES0002z10_02 | COSTA ESTE - DESEMBOLADURA DE RIO ANTON RUIZ | 1.5 | 2 | | |
| PRES0002z10_01 | COSTA ESTE - PUERTO DE NAGUABO | 0.8 | 1 | | |
| PRES0002z11_00 | COSTA ESTE - BOCA PRIETA | 0.3 | 2 | | |
| PRES0002z12_00 | COSTA ESTE - PLAYA DE HUMACAO | 2.4 | 1 | | |
| PRES0002z14_00 | COSTA ESTE - RIO HUMACAO | 3 | 1 | | |
| PRES0002z17_00 | COSTA ESTE - PLAYA GUAYANES | 2.1 | 1 | | |
| PRES0002z18_00 | COSTA ESTE - PUERTO DE YABUCOA | 2.1 | 1 | | |

**ASSESSMENT SUMMARY FOR NOT MONITORED COASTAL WATERS
(EAST COAST)
Puerto Rico 2002 305(b)/303(d) Report**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | | | | |
|----------------|---|-------------------------|----------|---|------|---|---|
| | | | 1 | 2 | 3 | 4 | 5 |
| PRES0002z20_00 | COSTA ESTE - PUNTA TORO MAUNABO | 3.5 | | | 3.5 | | |
| PRES0002z3_00 | COSTA ESTE - PUNTA GORDA | 4.3 | 4.3 | | | | |
| PRES0002z4_00 | COSTA ESTE - PLAYA SARDINERA, FAJARDO | 1.1 | | | 1.1 | | |
| PRES0002z6_00 | COSTA ESTE - PTA. BARRANCAS TO PTA. PUERCAS | 13.7 | | | 13.7 | | |
| PRES0002z7_00 | COSTA ESTE - BAHIA DE PUERCA TO ENSENADA HONDA | 7.6 | | | 7.6 | | |
| PRES0002z8_00 | COSTA ESTE | 9.6 | 9.6 | | | | |
| PRES002z22_00 | COSTA ESTE - CABO MALA PASCUA, PATILLAS | 0.5 | 0.5 | | | | |
| PRES0002c_00 | COSTA ESTE – MAMEYAL, DORADO | 3.3 | 3.3 | | | | |
| PRES0002g_01 | ICOSTA ESTE - ISLA DE CABRAS – PALO SECO | 6.9 | | | 6.9 | | |
| PRES0002k_00 | COSTA ESTE - BAHIA DE SAN JUAN | 2 | | | 2.0 | | |
| PRES0002l_00 | COSTA ESTE - LA PUNTILLA BAHIA DE SAN JUAN | 1.4 | | | 1.4 | | |
| PRES0002ll_00 | COSTA ESTE - PUNTA DEL MORRO | 2.3 | | | 2.3 | | |
| PRES0002y_00 | COSTA ESTE – DESEMB. RIO ESPIIRITU SANTO TO PTA. PERCHAS | 7.4 | 7.4 | | | | |
| PRES0002z1_02 | COSTA ESTE – DESEMB. RIO JUAN MARTIN | 4.6 | 4.6 | | | | |
| PRES0002z13_00 | COSTA ESTE – DESEMB. QUEBRADA FRONTERAS | 0.4 | | | 0.4 | | |
| PRES0002z15_00 | COSTA ESTE - PUNTA CANDELERO | 3.1 | | | 3.1 | | |
| PRES0002z16_00 | COSTA ESTE - NEAR TO PTA. GUAYANES | 1.1 | 1.1 | | | | |
| PRES0002V | DESDE PUNTA ARENA HASTA DESPUÉS DE LA DESEMBOCADURA DEL RIO GRANDE DE LOIZA | 3.0 | | | 3.0 | | |
| | Total | 75.8 | 30.8 | | 45.0 | | |

**ASSESSMENT FOR NOT MONITORED COASTAL WATERS WITH SOURCES
(EAST COAST)
PUERTO RICO 2002 305(b)/303(d) REPORT**

| ASSESSMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|------------------------|--|-----------------------------|-----------------|---|
| PRES0002z20_00 | COSTA ESTE - PUNTA TORO MAUNABO | 3.5 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) |
| PRES0002z3_00 | COSTA ESTE - PUNTA GORDA | 4.3 | 1 | |
| PRES0002z4_00 | COSTA ESTE - PLAYA SARDINERA, FAJARDO | 1.1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Marinas and Recreation Boating (7900) |
| PRES0002z6_00 | COSTA ESTE - PTA. BARRANCAS TO PTA. PUERCAS | 13.7 | 3 | Marinas and Recreation Boating (7900) |
| PRES0002z7_00 | COSTA ESTE - BAHIA DE PUERCA TO ENSENADA HONDA | 7.6 | 3 | Marinas and Recreation Boating (7900) |
| PRES0002z8_00 | COSTA ESTE | 9.6 | 1 | |
| PRES0002z22_00 | COSTA ESTE - CABO MALA PASCUA, PATILLAS | 0.5 | 1 | |
| PRES0002c_00 | COSTA ESTE - MAMEYAL, DORADO | 3.3 | 1 | |
| PRES0002g_01 | ICOSTA ESTE - ISLA DE CABRAS - PALO SECO | 6.9 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) |
| PRES0002k_00 | COSTA ESTE - BAHIA DE SAN JUAN | 2 | 3 | Urban Runoff/Storm Sewers (4000) Marinas and Recreation Boating (7900) |
| PRES0002l_00 | COSTA ESTE - LA PUNTILLA BAHIA DE SAN JUAN | 1.4 | 3 | Urban Runoff/Storm Sewers (4000) Marinas and Recreation Boating (7900) |

| ASSESSMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|---|----------------------|----------|--|
| PRES0002II_00 | COSTA ESTE - PUNTA DEL MORRO | 2.3 | 3 | |
| PRES0002y_00 | COSTA ESTE – DESEMB. RIO ESPIIRITU SANTO TO PTA. PERCHAS | 7.4 | 1 | |
| PRES0002z1_02 | COSTA ESTE – DESEMB. RIO JUAN MARTIN | 4.6 | 1 | |
| PRES0002z13_00 | COSTA ESTE – DESEMB. QUEBRADA FRONTERAS | 0.4 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) |
| PRES0002z15_00 | COSTA ESTE - PUNTA CANDELERO | 3.1 | 3 | Marinas and Recreation Boating (7900) |
| PRES0002z16_00 | COSTA ESTE - NEAR TO PTA. GUAYANES | 1.1 | 1 | |
| PRES0002V | DESDE PUNTA ARENA HASTA DESPUÉS DE LA DESEMBOCADURA DEL RIO GRANDE DE LOIZA | 3.0 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Urban Runoff/Storm Sewers (4000) |
| PRES0306a_00 | COSTA CULEBRAS | 1 | 1 | |
| PRES0306b_00 | COSTA CULEBRA | 31.7 | 1 | |
| PRES0307a_00 | COSTA VIEQUES | 1 | 1 | |
| PRES0307b_00 | COSTA VIEQUES | 43.4 | 3 | Land Disposal (6000) Hazardous Waste (6600) Hydromodification (7000) Flow Regulations/Modifications (7400) Debris and bottom deposits (8520) |
| PRES0307C_00 | COSTA ESTE | 3 | 1 | |
| PRES0307d_00 | COSTA ESTE | 3.6 | 1 | |
| PRES0307e_00 | COSTA ESTE - LA ESPERANZA | 0.6 | 1 | |

| ASSESSMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|--------------------------|----------------------|----------|---|
| PRES0307f_00 | COSTA ESTE | 19 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hazardous Waste (6600) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Debris and bottom deposits (8520) |
| PRWS0308_00 | COSTA OESTE ISLA DE MONA | 18.6 | 1 | |

PUERTO RICO COASTAL WATER QUALITY ASSESSMENT SUMMARY
PUERTO RICO 2002 – 305(b)/303(d) REPORT
(NORTH COAST)

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (Miles) | CATEGORY (Miles) | | | | | |
|--------------|--|----------------------|------------------|------|-----|-----|-----|--|
| | | | 1 | 2 | 3 | 4 b | 5 | |
| PRNS0001b_00 | COSTA NORTE - BAHIA DE AGUADILLA | 3 | 3.0 | | | | | |
| PRNS0001c_00 | COSTA NORTE - BORINQUEN EN AGUADILLA | 2.9 | | 2.9 | | | | |
| PRNS0001d_01 | COSTA NORTE - PUNTA BORINQUEN, BASE RAMEY | 2.3 | | 2.3 | | | | |
| PRNS0001d_03 | COSTA NORTE - PUNTA JACINTO ISABELA | 1.9 | | 1.9 | | | | |
| PRNS0001d_04 | COSTA NORTE - BAJURA EN ISABELA | 2.3 | | 2.3 | | | | |
| PRNS0001e_00 | COSTA NORTE - PUNTA SARDINA | 3 | 3 | | | | | |
| PRNS0001g_00 | COSTA NORTE - RIO GUAJATACA | 3 | 3 | | | | | |
| PRNS0001h_02 | COSTA NORTE - PEÑON BRUSI | 1.8 | | | | | 1.8 | |
| PRNS0001i_00 | COSTA NORTE - PUNTA MANGLILLO, HATILLO | 3 | 3.0 | | | | | |
| PRNS0001j_00 | COSTA NORTE - PUNTA MARACAYO | 1.4 | | 1.4 | | | | |
| PRNS0001l_00 | COSTA NORTE – PUERTO DE ARECIBO | 3 | | | 3.0 | | | |
| PRNS0001m_00 | COSTA NORTE - PUNTA CARACOLES, ARECIBO | 1.9 | 1.9 | | | | | |
| PRNS0001n_02 | COSTA NORTE – PALMAS ALTAS BARCELONETA | 2.7 | | 2.7 | | | | |
| PRNS0001n_03 | COSTA NORTE - | 1.5 | | 1.5 | | | | |
| PRNS0001o_00 | COSTA NORTE - RIO GRANDE DE MANATI TOPTA. MANATI | 3 | 3.0 | | | | | |
| PRNS0001p_02 | COSTA NORTE - PUNTA MAR CHIQUITA MANATI | 3 | | 3.0 | | | | |
| PRNS0001q_00 | COSTA NORTE – PUERTO NUEVO, VEGA BAJA | 3 | 3.0 | | | | | |
| PRNS0001s_00 | COSTA NORTE - CERRO GORDO, VEGA ALTA | 1.9 | 1.9 | | | | | |
| | Total | 44.6 | 21.8 | 18.0 | 3.0 | 1.8 | | |

**ASSESSMENT FOR MONITORED COASTAL WATERS WITH SOURCES AND CAUSES
(NORTH COAST)
Puerto Rico 2002 305(b)/303(d) Report**

| ASSESSMENT UNIT (AU-ID) | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|--------------------------------|---|-----------------------------|-----------------|--|-------------------------------|
| PRNS0001b_00 | COSTA NORTE - BAHIA DE AGUADILLA | 3 | 1 | | |
| PRNS0001c_00 | COSTA NORTE - BORINQUEN EN AGUADILLA | 2.9 | 2 | | |
| PRNS0001d_01 | COSTA NORTE - PUNTA BORINQUEN, BASE RAMEY | 2.3 | 2 | | |
| PRNS0001d_03 | COSTA NORTE - PUNTA JACINTO ISABELA | 1.9 | 2 | | |
| PRNS0001d_04 | COSTA NORTE - BAJURA EN ISABELA | 2.3 | 2 | | |
| PRNS0001e_00 | COSTA NORTE - PUNTA SARDINA | 3 | 1 | | |
| PRNS0001g_00 | COSTA NORTE - RIO GUAJATACA | 3 | 1 | | |
| PRNS0001h_02 | COSTA NORTE - PEÑON BRUSI | 1.8 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens Enterococcus (1700) |
| PRNS0001i_00 | COSTA NORTE - PUNTA MANGLILLO, HATILLO | 3 | 1 | | |
| PRNS0001j_00 | COSTA NORTE - PUNTA MARACAYO | 1.4 | 2 | | |
| PRNS0001l_00 | COSTA NORTE - PUERTO DE ARECIBO | 3 | 3 | | |
| PRNS0001m_00 | COSTA NORTE - PUNTA CARACOLES, ARECIBO | 1.9 | 1 | | |
| PRNS0001n_02 | COSTA NORTE - PALMAS ALTAS BARCELONETA | 2.7 | 2 | | |
| PRNS0001n_03 | COSTA NORTE - | 1.5 | 2 | | |
| PRNS0001o_00 | COSTA NORTE - RIO GRANDE DE MANATI | 3 | 1 | | |
| PRNS0001p_02 | COSTA NORTE - PUNTA MAR CHIQUITA MANATI | 3 | 2 | | |
| PRNS0001q_00 | COSTA NORTE - PUERTO NUEVO, VEGA BAJA | 3 | 1 | | |
| PRNS0001s_00 | COSTA NORTE - CERRO GORDO, VEGA ALTA | 1.9 | 1 | | |

**ASSESSMENT SUMMARY FOR NOT MONITORED COASTAL WATERS
(NORTH COAST)**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (Miles) | CATEGORY (Miles) | | | | |
|--------------|---|----------------------|------------------|---|------|---|---|
| | | | 1 | 2 | 3 | 4 | 5 |
| PRNS0001a_00 | COSTA NORTE - RIO CULEBRINAS, AGUADA | 0.9 | | | 0.9 | | |
| PRNS0001d_02 | COSTA NORTE – DESDE PUNTA AGUJEREA | 3.4 | 3.4 | | | | |
| PRNS0001f_00 | COSTA NORTE | 1.9 | 1.9 | | | | |
| PRNS0001h_01 | COSTA NORTE –DESEMBOCADURA QUEBRADA BELLACA | 4.1 | | | 4.1 | | |
| PRNS0001k_00 | COSTA NORTE – QUEBRADA SECA | 4.4 | 4.4 | | | | |
| PRNS0001n_01 | COSTA NORTE - PUNTA CARACOLAS TO ISLOTE ARECIBO | 5.1 | | | 5.1 | | |
| PRNS0001p_01 | COSTA NORTE- PUNTA BOQUILLA, MANATI | 1.6 | 1.6 | | | | |
| PRNS0001p_03 | COSTA NORTE – PUERTO DE TORTUGUERO | 3.4 | 3.4 | | | | |
| PRNS0001r_00 | COSTA NORTE - RIO CIBUCO | 2.3 | 2.3 | | | | |
| | Total | 27.1 | 17 | | 10.1 | | |

**ASSESSMENT FOR NOT MONITORED COASTAL WATERS WITH SOURCES
(NORTH COAST)
PUERTO RICO 2002 305(b)/303(d) REPORT**

| ASSESSMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|------------------------|--|-----------------------------|-----------------|--|
| PRNS0001a_00 | COSTA NORTE - RIO CULEBRINAS, AGUADA | 0.9 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Urban Runoff/Storm Sewers (4000) |
| PRNS0001d_02 | COSTA NORTE – DESDE PUNTA AGUJEREADA | 3.4 | 1 | |
| PRNS0001f_00 | COSTA NORTE | 1.9 | 1 | |
| PRNS0001h_01 | COSTA NORTE –DESEMBOCADURA QUEBRADA BELLACA | 4.1 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Municipal Point Sources (0200) Major Municipal Point Sources (0210) |
| PRNS0001k_00 | COSTA NORTE – QUEBRADA SECA | 4.4 | 1 | |
| PRNS0001n_01 | COSTA NORTE - PUNTA CARACOLES TO ISLOTE ARECIBO | 5.1 | 3 | |
| PRNS0001p_01 | COSTA NORTE- PUNTA BOQUILLA, MANATI | 1.6 | 1 | |
| PRNS0001p_03 | COSTA NORTE – PUERTO DE TORTUGUERO | 3.4 | 1 | |
| PRNS0001r_00 | COSTA NORTE - RIO CIBUCO | 2.3 | 1 | |

**PUERTO RICO COASTAL WATER QUALITY ASSESSMENT SUMMARY
(WEST COAST)
PUERTO RICO 2002 – 305(b)/303(d) REPORT**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (Miles) | CATEGORY (Miles) | | | | |
|--------------|--|----------------------|------------------|-----|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 |
| PRWS0004a_02 | COSTA OESTE | 3 | | 3.0 | | | |
| PRWS0004c_00 | COSTA OESTE - BAHIA DE MAYAGÜEZ | 2.5 | 2.5 | | | | |
| PRWS0004d_00 | COSTA OESTE – MALECON DE MAYAGÜEZ | 1.9 | 1.9 | | | | |
| PRWS0004f_00 | COSTA OESTE – BALNEARIO DE AÑASCO, BAHÍA DE AÑASCO | 3.0 | 3.0 | | | | |
| PRWS0004g_02 | COSTA OESTE – QUEBRADA RAMOS, RINCÓN | 2.3 | | 2.3 | | | |
| PRWS0004g_03 | COSTA OESTE – DESEMBOCADURA QUEBRADA RAMOS RINCON | 2.3 | | 2.3 | | | |
| | Total | 15.0 | 7.4 | 7.6 | | | |

**ASSESSMENT FOR MONITORED COASTAL WATERS WITH SOURCES AND CAUSES
(WEST COAST)
PUERTO RICO 2002 - 305(b)/303(d) REPORT**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES | CAUSES |
|---------------------|--|-----------------------------|-----------------|----------------|---------------|
| PRWS0004a_02 | COSTA OESTE | 3 | 2 | | |
| PRWS0004c_00 | COSTA OESTE - BAHIA DE MAYAGÜEZ | 2.5 | 1 | | |
| PRWS0004d_00 | COSTA OESTE – MALECON DE MAYAGÜEZ | 1.9 | 1 | | |
| PRWS0004f_00 | COSTA OESTE – BALNEARIO DE AÑASCO, BAHÍA DE AÑASCO | 3 | 1 | | |
| PRWS0004g_02 | COSTA OESTE – QUEBRADA RAMOS, RINCÓN | 2.3 | 2 | | |
| PRWS0004g_03 | COSTA OESTE – DESEMBOCADURA QUEBRADA RAMOS RINCON | 2.3 | 2 | | |

**ASSESSMENT SUMMARY FOR NOT MONITORED COASTAL WATERS
(WEST COAST)**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | | | | |
|--------------|---|----------------------|----------|---|------|---|---|
| | | | 1 | 2 | 3 | 4 | 5 |
| PRWS0004a_01 | COSTA OESTE – PUERTO REAL, CABO ROJO | 2.8 | | | 2.8 | | |
| PRWS0004a_03 | COSTA OESTE – JOYUDA CABO ROJO | 5 | | | 5.0 | | |
| PRWS0004b_00 | COSTA OESTE – GUANAJIBO HOMES | 1.2 | 1.2 | | | | |
| PRWS0004e_00 | COSTA OESTE - MANI MAYAGÜEZ | 2.6 | | | 2.6 | | |
| PRWS0004g_01 | COSTA OESTE – QUEBRADA CAGUABO | 1 | 1.0 | | | | |
| PRWS0004g_04 | COSTA OESTE – CAÑO SANTIPONCE HASTA DESEMBOCADURA. RIO GRANDE AÑASCO | 6.9 | | | 6.9 | | |
| | Total | 19.5 | 2.2 | | 17.3 | | |

**ASSESSMENT FOR NOT MONITORED COASTAL WATERS WITH SOURCES
(WEST COAST)
PUERTO RICO 2002 - 305(b)/303(d) REPORT**

| ASSESSMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES |
|------------------------|--|-----------------------------|-----------------|----------------|
| PRWS0004a_01 | COSTA OESTE - PUERTO REAL, CABO ROJO | 2.8 | 3 | |
| PRWS0004a_03 | COSTA OESTE - JOYUDA CABO ROJO | 5 | 3 | |
| PRWS0004b_00 | COSTA OESTE – GUANAJIBO HOMES | 1.2 | 1 | |
| PRWS0004e_00 | COSTA OESTE - MANI MAYAGÜEZ | 2.6 | 3 | |
| PRWS0004g_01 | COSTA OESTE – QUEBRADA CAGUABO | 1 | 1 | |
| PRWS0004g_04 | COSTA OESTE - CAÑO SANTIPONCE HASTA DESEMBOCADURA. RIO GRANDE AÑASCO | 6.9 | 3 | |

PUERTO RICO COASTAL WATER QUALITY ASSESSMENT SUMMARY
PUERTO RICO 2002 – 305(b)/303(d) REPORT
(SOUTH COAST)

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (Miles) | CATEGORY (Miles) | | | | |
|----------------|---|-------------------------|------------------|------|---|-----|---|
| | | | 1 | 2 | 3 | 4b | 5 |
| PRSS0003a_02 | COSTA SUR - RIO CHICO - PATILLAS | 3 | | | | 3.0 | |
| PRSS0003b_00 | COSTA SUR – BALNEARIO DE ARROYO | 3 | 3.0 | | | | |
| PRSS0003d_00 | COSTA SUR - PTA. OLA GRANDE | 2 | 2.0 | | | | |
| PRSS0003e_00 | COSTA SUR | 1.2 | 1.2 | | | | |
| PRSS0003h_00 | COSTA SUR – PUERTO DE JOBOS | 3 | 3.0 | | | | |
| PRSS0003j_00 | COSTA SUR | 3 | 3.0 | | | | |
| PRSS0003l_02 | COSTA SUR – BAHIA DE JAUCA | 0.9 | | 0.9 | | | |
| PRSS0003m_00 | COSTA SUR – PLAYA SANTA ISABEL | 3 | 3.0 | | | | |
| PRSS0003p_00 | COSTA SUR- MUELLE DE PONCE | 2.2 | 2.2 | | | | |
| PRSS0003q_00 | COSTA SUR-PLAYA DE PONCE | 2.2 | 2.2 | | | | |
| PRSS0003s_00 | COSTA SUR – PUNTA CUCHARA | 1.9 | 1.9 | | | | |
| PRSS0003u_00 | COSTA SUR – BAHIA DE TALLABOA | 2.1 | 2.1 | | | | |
| PRSS0003v_00 | COSTA SUR - RIO TALLABOA | 2.1 | 2.1 | | | | |
| PRSS0003x_00 | COSTA SUR – BAHIA DE GUAYANILLA | 2.5 | | | | 2.5 | |
| PRSS0003y_00 | COSTA SUR – BAHIA DE GUAYANILLA | 1.6 | 1.6 | | | | |
| PRSS0003z_00 | COSTA SUR – BAHIA DE GUAYANILLA | 2.1 | 2.1 | | | | |
| PRSS0003z11_00 | COSTA SUR – BAHIA FOSFORECENTE TO LA PARGUERA | 2.7 | | 2.7 | | | |
| PRSS0003z15_03 | COSTA SUR – PUNTA MELONES, CABO ROJO | 2 | | 2.0 | | | |
| PRSS0003z15_02 | COSTA SUR - PTA. MOJA CASABE, EL COMBATE | 2.5 | | 2.5 | | | |
| PRSS0003z16_00 | COSTA SUR – BALNEARIO DE BOQUERON | 3 | 3.0 | | | | |
| PRSS0003z17_02 | COSTA SUR | 2.1 | | 2.1 | | | |
| PRSS0003z17_03 | COSTA SUR | 0.7 | | 0.7 | | | |
| PRSS0003z3_00 | COSTA SUR - PUNTA VENTANA, GUAYANILLA | 3 | 3.0 | | | | |
| PRSS0003z5_00 | COSTA SUR – BALNEARIO DE CAÑA GORDA | 3 | | | | 3.0 | |
| PRSS0003z7_00 | COSTA SUR – PLAYA DE GUANICA | 2.7 | 2.7 | | | | |
| PRSS0003z9_02 | COSTA SUR – GALETA SALINAS | 3 | | 3.0 | | | |
| | Total | 60.5 | 38.1 | 13.9 | | 8.5 | |

**ASSESSMENT FOR MONITORED COASTAL WATERS WITH SOURCES AND CAUSES
(SOUTH COAST)
PUERTO RICO 2002 - 305(b)/303(d) REPORT**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES | CAUSES |
|--------------|----------------------------------|----------------------|----------|--|-------------------------------|
| PRSS0003a_02 | COSTA SUR - RIO CHICO - PATILLAS | 3 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) | Pathogens Enterococcus (1700) |
| PRSS0003b_00 | COSTA SUR - BALNEARIO DE ARROYO | 3 | 1 | | |
| PRSS0003d_00 | COSTA SUR - PTA. OLA GRANDE | 2 | 1 | | |
| PRSS0003e_00 | COSTA SUR | 1.2 | 1 | | |
| PRSS0003h_00 | COSTA SUR - PUERTO DE JOBOS | 3 | 1 | | |
| PRSS0003j_00 | COSTA SUR | 3 | 1 | | |
| PRSS0003l_02 | COSTA SUR - BAHIA DE JAUCA | 0.9 | 2 | | |
| PRSS0003m_00 | COSTA SUR - PLAYA SANTA ISABEL | 3 | 1 | | |
| PRSS0003p_00 | COSTA SUR- MUELLE DE PONCE | 2.2 | 1 | | |
| PRSS0003q_00 | COSTA SUR-PLAYA DE PONCE | 2.2 | 1 | | |
| PRSS0003s_00 | COSTA SUR - PUNTA CUCHARA | 1.9 | 1 | | |
| PRSS0003u_00 | COSTA SUR - BAHIA DE TALLABOA | 2.1 | 1 | | |
| PRSS0003v_00 | COSTA SUR - RIO TALLABOA | 2.1 | 1 | | |
| PRSS0003x_00 | COSTA SUR - BAHIA DE GUAYANILLA | 2.5 | 4b | Industrial Point Sources (0100) Major Industrial Point Sources (0110) | Thermal Modifications (1400) |

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES | CAUSES |
|----------------|---|----------------------|----------|--|---------------------------------|
| PRSS0003y_00 | COSTA SUR - BAHIA DE GUAYANILLA | 1.6 | 1 | | |
| PRSS0003z_00 | COSTA SUR - BAHIA DE GUAYANILLA | 2.1 | 1 | | |
| PRSS0003z11_00 | COSTA SUR - BAHIA FOSFORECENTE TO LA PARGUERA | 2.7 | 2 | | |
| PRSS0003z15_03 | COSTA SUR - PUNTA MELONES, CABO ROJO | 2 | 2 | | |
| PRSS0003z15_02 | COSTA SUR - PTA. MOJA CASABE, EL COMBATE | 2.5 | 2 | | |
| PRSS0003z16_00 | COSTA SUR - BALNEARIO DE BOQUERON | 3 | 1 | | |
| PRSS0003z17_02 | COSTA SUR | 2.1 | 2 | | |
| PRSS0003z17_03 | COSTA SUR | 0.7 | 2 | | |
| PRSS0003z3_00 | COSTA SUR - PUNTA VENTANA, GUAYANILLA | 3 | 1 | | |
| PRSS0003z5_00 | COSTA SUR - BALNEARIO DE CAÑA GORDA | 3 | 4b | Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens – Enterococcus (1700) |
| PRSS0003z7_00 | COSTA SUR - PLAYA DE GUANICA | 2.7 | 1 | | |
| PRSS0003z9_02 | COSTA SUR - GALETA SALINAS | 3 | 2 | | |

**ASSESSMENT SUMMARY FOR NOT MONITORED COASTAL WATERS
(SOUTH COAST)**

| SEGMENT UNIT | SEGMENT NAME | SEGMENT SIZE | CATEGORY | | | | |
|----------------|--|--------------|----------|---|------|---|---|
| | | | 1 | 2 | 3 | 4 | 5 |
| PRSS0003a_03 | COSTA SUR - RIO GRANDE PATILLAS | 1 | | | 1.0 | | |
| PRSS0003a_01 | COSTA SUR - QUEBRADA FLORIDA PATILLAS | 3.6 | | | 3.6 | | |
| PRSS0003c_00 | COSTA SUR - PTA. FIGURAS A PTA. BARRANCAS | 5.8 | | | 5.8 | | |
| PRSS0003f_00 | COSTA SUR - CABO CARIBE, GUAYAMA | 4.6 | | | 4.6 | | |
| PRSS0003g_00 | COSTA SUR - BAHÍA DE JOBOS | 2.7 | 2.7 | | | | |
| PRSS0003i_00 | COSTA SUR - GUAYAMA | 0.9 | 0.9 | | | | |
| PRSS0003k_00 | COSTA SUR | 0.4 | 0.4 | | | | |
| PRSS0003l_01 | BAHÍA DE RINCÓN | 18.5 | | | 18.5 | | |
| PRSS0003l_03 | COSTA SUR - JAUCA, SANTA ISABEL | 6.6 | 6.6 | | | | |
| PRSS0003n_00 | COSTA SUR – PLAYA CORTADA SANTA ISABEL | 14.8 | | | 14.8 | | |
| PRSS0003r_00 | COSTA SUR – PUNTA CUCHARAS | 2.3 | 2.3 | | | | |
| PRSS0003t_00 | COSTA SUR – PEÑON DE PONCE | 1.4 | 1.4 | | | | |
| PRSS0003w_00 | COSTA SUR – BAHÍA DE TALLABOA | 2.3 | | | 2.3 | | |
| PRSS0003z1_00 | COSTA SUR – PUERTO DE GUAYANILLA | 3.8 | | | 3.8 | | |
| PRSS0003z10_00 | COSTA SUR – BAHÍA FOSFORECENTE | 2 | 2.0 | | | | |
| PRSS0003z12_00 | COSTA SUR - LA PARGUERA | 1.5 | | | 1.5 | | |
| PRSS0003z13_00 | COSTA SUR | 2.8 | 2.8 | | | | |
| PRSS0003z14_00 | COSTA SUR | 1.8 | 1.8 | | | | |
| PRSS0003z15_01 | COSTA SUR – COSTA PTA. PITAHAYA, CABO ROJO | 17.6 | 17.6 | | | | |
| PRSS0003z17_01 | COSTA SUR | 2.4 | | | 2.4 | | |
| PRSS0003z2_00 | COSTA SUR – PUNTA VERRACO, GUAYANILLA | 0.9 | 0.9 | | | | |
| PRSS0003z4_00 | COSTA SUR - BAHÍA DE LA BALLENA, | 4.1 | 4.1 | | | | |
| PRSS0003z6_00 | COSTA SUR – PLAYA DE JABONCILLO | 0.3 | 0.3 | | | | |
| PRSS0003z8_00 | COSTA SUR – BAHÍA DE GUÁNICA | 3.5 | | | 3.5 | | |
| PRSS0003z9_03 | COSTA SUR – BAHÍA MONTALVA, LAJAS | 6.3 | | | 6.3 | | |
| PRSS0003z9_01 | COSTA SUR – ENSENADA LOS PARDOS, GUÁNICA | 4.7 | 4.7 | | | | |
| | Total | 116.6 | 48.5 | | 68.1 | | |

**ASSESSMENT FOR NOT MONITORED COASTAL WATERS WITH SOURCES*
(SOUTH COAST)
PUERTO RICO 2002 305(b)/303(d) REPORT**

| ASSESSMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|---|----------------------|----------|--|
| PRSS0003a_03 | COSTA SUR - RIO GRANDE PATILLAS | 1 | 3 | |
| PRSS0003a_01 | COSTA SUR - QUEBRADA FLORIDA PATILLAS | 3.6 | 3 | |
| PRSS0003c_00 | COSTA SUR - PTA. FIGURAS A PTA. BARRANCAS | 5.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Industrial Point Sources (0100) Major Industrial Point Sources (0110) |
| PRSS0003f_00 | COSTA SUR - CABO CARIBE, GUAYAMA | 4.6 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSS0003g_00 | COSTA SUR - BAHÍA DE JOBOS | 2.7 | 1 | |
| PRSS0003i_00 | COSTA SUR - GUAYAMA | 0.9 | 1 | |
| PRSS0003k_00 | COSTA SUR | 0.4 | 1 | |
| PRSS0003l_01 | BAHÍA DE RINCÓN | 18.5 | 3 | |
| PRSS0003l_03 | COSTA SUR - JAUCA, SANTA ISABEL | 6.6 | 1 | |
| PRSS0003n_00 | COSTA SUR – PLAYA CORTADA SANTA ISABEL | 14.8 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) |
| PRSS0003r_00 | COSTA SUR – PUNTA CUCHARAS | 2.3 | 1 | |
| PRSS0003t_00 | COSTA SUR – PEÑON DE PONCE | 1.4 | 1 | |
| PRSS0003w_00 | COSTA SUR – BAHÍA DE TALLABOA | 2.3 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Marinas and Recreation Boating (7900) |
| PRSS0003z1_00 | COSTA SUR – PUERTO DE GUAYANILLA | 3.8 | 3 | Urban Runoff/Storm Sewers (4000) |
| PRSS0003z10_00 | COSTA SUR – BAHÍA FOSFORECENTE | 2 | 1 | |
| PRSS0003z12_00 | COSTA SUR - LA PARGUERA | 1.5 | 3 | |
| PRSS0003z13_00 | COSTA SUR | 2.8 | 1 | |
| PRSS0003z14_00 | COSTA SUR | 1.8 | 1 | |

| ASSESSMENT UNIT | SEGMENT NAME | SEGMENT SIZE (MILES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|--|----------------------|----------|----------------------|
| PRSS0003z15_01 | COSTA SUR – COSTA PTA. PITAHAYA, CABO ROJO | 17.6 | 1 | |
| PRSS0003z17_01 | COSTA SUR | 2.4 | 3 | |
| PRSS0003z2_00 | COSTA SUR – PUNTA VERRACO, GUAYANILLA | 0.9 | 1 | |
| PRSS0003Z4_00 | COSTA SUR - BAHÍA DE LA BALLENA, | 4.1 | 1 | |
| PRSS0003z6_00 | COSTA SUR – PLAYA DE JABONCILLO | 0.3 | 1 | |
| PRSS0003z8_00 | COSTA SUR – BAHÍA DE GUÁNICA | 3.5 | 3 | |
| PRSS0003z9_03 | COSTA SUR – BAHÍA MONTALVA, LAJAS | 6.3 | 3 | |
| PRSS0003z9_01 | COSTA SUR – ENSENADA LOS PARDOS, GUÁNICA | 4.7 | 1 | |

VIEQUES, CULEBRA AND ISLA DE MONA ISLANDS: Not Monitored waters

| WBIDSEGID | WBNAME | WBSIZE | CATEGORY | | | | |
|--------------|---------------------|--------------|-------------|---|-------------|---|---|
| | | | 1 | 2 | 3 | 4 | 5 |
| PRES0306a_00 | COSTA CULEBRAS | 1 | 1.0 | | | | |
| PRES0306b_00 | COSTA CULEBRA | 31.7 | 31.7 | | | | |
| PRES0307a_00 | COSTA VIEQUES | 1 | | | 1.0 | | |
| PRES0307b_00 | COSTA VIEQUES | 43.4 | | | 43.4 | | |
| PRES0307C_00 | COSTA ESTE | 3 | 3.0 | | | | |
| PRES0307d_00 | COSTA ESTE | 3.6 | 3.6 | | | | |
| | COSTA ESTE - LA | | | | 0.6 | | |
| PRES0307e_00 | ESPERANZA | 0.6 | | | | | |
| PRES0307f_00 | COSTA ESTE | 19 | | | 19.0 | | |
| | COSTA OESTE ISLA DE | | 18.6 | | | | |
| PRWS0308_00 | MONA | 18.6 | | | | | |
| | Total | 121.9 | 57.9 | | 64.0 | | |

PART VI
ESTUARIES ASSESSMENT

Chapter1: SAN JUAN BAY ESTUARY SYSTEM / MONITORING AND ASSESSMENT PROGRAM

Introduction

One of the most relevant and important estuary of Puerto Rico is the San Juan Bay Estuary system. The San Juan Bay Estuary (SJBE) system provides habitat for over 160 bird species, 19 amphibian species, and 87 fish species including 18 sport fish species, and approximately 300 wetland plant species (SJBE Program, 2001). Some endangered threatened, and/or rare species in the estuary include the Brown Pelican, Peregrine Falcon, Roseate Tern, Yellow shouldered Blackbird, Leatherback Turtle, Green Turtle, Hawksbill Turtle, West Indian Manatee, and 17 plant species (SJBE Program, 2001). San Juan Bay is the 17th largest port facility in the world and the fourth busiest container port in the Western Hemisphere. Approximately 622,000 people live within the SJBE system watershed (1990 Census) and the average population density is 3,215 persons per square kilometer (8,327 persons per square mile). The Piñones Commonwealth forest, located in the easternmost sector of the SJBE system, contains the largest mangrove forest in Puerto Rico, 22 percent of the total mangrove acreage on the island.

The SJBE system has provided valuable resources to the residents of the region for centuries. People are attracted to the port, beaches, parks, and natural areas, and these resources are vital to the regional economy. Historically, the needs of the growing population have resulted in over-exploitation of the SJBE system's natural resources (e. g., mining of sand and limestone, depletion of fresh groundwater, over harvest of fisheries), degradation or destruction of key components of the estuarine system. The main impacts to the SJBE system have been uncontrolled dredging and filling, sewage and industrial discharge, and urbanization of over 90 percent of the estuary's drainage basin. In 1992, the SJBE system was included in the US Environmental Protection Agency (USEPA) National Estuary Program. The USEPA Region 2 approved the Comprehensive Conservation and Management Plan (CCMP) in October 2000.

PROBLEM

An important part of the CCMP is the implementation of a long-term water –and sediment – quality monitoring program throughout the SJBE system and watershed. Data from this network are needed to document the trends of ambient water and sediment quality, and to relate these to structural changes (e. g., upgrades to sewer mains) or the implementation of best management practices (BMP's). The CCMP recommended that the full monitoring program would require 26 stations, 17 in the estuary and 9 in the watershed. Additional stations and parameters will be added annually until the full set of monitoring stations is implemented on or before fiscal year 2004. The program may be expanded to include long-term monitoring at storm-water

pumping stations and storm-sewers discharging large amounts of storm water to the estuary even during dry-weather periods.

OBJECTIVES

The objectives of the long-term monitoring and assessment program are to:

- ◆ Collect water – and sediment – quality data at a selected number of stations for a selected number of chemical, physical, biological, and bacteriological parameters.
- ◆ Provide the necessary data from which to assess the trends of the annual and seasonal conditions and relate these to infrastructure or best management practices (BMPs) implemented to improve the water and sediment-quality conditions in the estuary.



Torrecillas Lagoon / Photo PREQB

RELEVANCE AND BENEFITS

The proposed long-term program will provide fundamental support for resources planning, development, management, and protection activities in the SJBE system and its watershed. The program addresses the increasing need for more comprehensive monitoring to support the intensive management and protection of water resources. It fulfills several priority issues of the U. S. Geological Survey, Water Resources Discipline by contributing to the understanding of the effects of urbanization and sub-urbanization on water resources, effects of land use and population increases on water resources in

the coastal zone, and the suitability of aquatic habitat for biota. At the Caribbean District level, the program fulfills the District's strategic direction in water- resources management, ecological health of streams, and fate the transport of contaminants. The proposed program will provide the Commonwealth of Puerto Rico and the Federal Government with data on the quality of water and sediments in the estuary and its watershed to be used in the evaluation of the expected water and sediment-quality improvements resulting from the implementation of the several management strategies outlined in the SJBE system's CCMP.

Chapter 2: Results of Water Quality Assessment

The following tables show the water quality assessment performed for the estuaries of Puerto Rico. The assessment corresponds to the mouths of rivers due to the lack to obtain water quality data for the other estuary systems, except the San Juan Bay System mentioned above.

ASSESSMENT FOR MONITORED ESTUARY WITH SOURCES AND CAUSES
Puerto Rico 2002 305(b)/303(d) Report

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (acres) | CATEGORY | SOURCES OF POLLUTION | CAUSES OF POLLUTION |
|--------------------------------|--------------|------------------------|------------------------|-----------------|--|--|
| PREE0163_00 | RIO GUAYANES | RIO GUAYANES | 23.29 | 5 | Land Disposal (6000) Onsite Wastewater Systems (6500) | Nonpriority Organicsn (0400) Nutrients (0900) Phosphorus (0910) Dissolved Oxygen (1200) Pathogens (1700) |

ASSESSMENT FOR NOT MONITORED ESTUARIES WITH SOURCES
PUERTO RICO 2002-305 (b)/303(d) REPORT

| ASSESSMENT UNIT | BASIN | WBNAME | WBSIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|-----------------------|-----------------------|----------------|----------|--|
| PRNE0028_00 | RIO GUAJATACA | RIO GUAJATACA | 30.72 | 3 | Urban Runoff/Storm Sewers (4000) Highway/Road/Bridge Runoff (4500) Resource Extraction (5000) Surface Mining (5100) |
| PRNE0033_00 | QUEBRADA BELLACA | QUEBRADA BELLACA | 2.68 | 1 | |
| PRNE0035_00 | RIO CAMUY | RIO CAMUY | 26.88 | 3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) |
| PRNE0038_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 54.2 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNE0051_00 | CAÑO TIBURONES | CAÑO TIBURONES | 187.13 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNE0055_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 164.86 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRNE0061_00 | RIO CIBUCO | RIO CIBUCO | 189.69 | 1 | |
| PREE0064_00 | RIO LA PLATA | RIO LA PLATA | 528.38 | 3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |

| ASSESSMENT UNIT | BASIN | WBNAME | WBSIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|---------------------|---------------------|----------------|----------|--|
| PREE0086_00 | RIO PIEDRAS | RIO PIEDRAS | 9.6 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Hydromodification (7000) Channelization (7100) Upstream Impoundment (7350) |
| PREE0091_00 | CAÑO MARTIN PEÑA | CAÑO MARTIN PEÑA | 403.2 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREE0095a_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 116.8 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREE0095b_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 439.04 | 3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREE0111_00 | RIO HERRERA | RIO HERRERA | 65.28 | 3 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) |
| PREE0113a_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 316.8 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Land Disposal (6000) Onsite Wastewater Systems (6500) |

| ASSESSMENT UNIT | BASIN | WBNAME | WBSIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|-----------------------|-----------------------|----------------|----------|--|
| PREE0113b_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 51.71 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREE0119_00 | CAÑO RODRIGUEZ | CAÑO RODRIGUEZ | 69.12 | 1 | |
| PREE0120_00 | RIO MAMEYES | RIO MAMEYES | 107.13 | 3 | Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREE0125_00 | RIO SABANA | RIO SABANA | 18.43 | 3 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREE0128_00 | RIO JUAN MARTIN | RIO JUAN MARTIN | 1.79 | 1 | |
| PREE0131_00 | RIO FAJARDO | RIO FAJARDO | 43.52 | 3 | Urban Runoff/Storm Sewers (4000) Onsite Wastewater Systems (6500) |
| PREE0134_00 | RIO DEMAJAGUA | RIO DEMAJAGUA | 1.79 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREE0137_00 | QUEBRADA AGUAS CLARAS | QUEBRADA AGUAS CLARAS | 1.53 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |

| ASSESSMENT UNIT | BASIN | WBNAME | WBSIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|------------------------|------------------------|----------------|----------|--|
| PREE0139_00 | RIO DAGUAO | RIO DAGUAO | 43 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PREE0142_00 | QUEBRADA PALMA | QUEBRADA PALMA | 3.2 | 3 | Municipal Point Sources (0200) Package Plants (0230) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PREE0144_00 | QUEBRADA BOTIJAS | QUEBRADA BOTIJAS | 12.28 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PREE0147_00 | RIO SANTIAGO | RIO SANTIAGO | 16.12 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| | | | | | |
| PREE0150_00 | RIO BLANCO | RIO BLANCO | 32.76 | 1 | |
| PREE0152_00 | RIO ANTON RUIZ | RIO ANTON RUIZ | 82.94 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PREE0159_00 | RIO HUMACAO | RIO HUMACAO | 79.36 | 3 | Land Disposal (6000) Landfills (6300) |
| PREE0161_00 | RIO CANDELERO | RIO CANDELERO | 49.92 | 1 | |
| PREE0166_00 | CAÑO DE SANTIAGO | CAÑO DE SANTIAGO | 73.72 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0175_00 | RIO CHICO | RIO CHICO | 5.12 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0180_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 8.7 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |

| ASSESSMENT UNIT | BASIN | WBNAME | WBSIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|-----------------------|-----------------------|----------------|----------|---|
| PRSE0187_00 | QUEBRADA SALADA | QUEBRADA SALADA | 3.84 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0189_00 | QUEBRADA CORAZON | QUEBRADA CORAZON | 3.45 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Agriculture (1000) Specialty Crop Production (1300) |
| PRSE0191_00 | QUEBRADA BRANDERI | QUEBRADA BRANDERI | 7.68 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0194_00 | QUEBRADA MELANIA | QUEBRADA MELANIA | 7.68 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0198_00 | RIO SECO | RIO SECO | 2.3 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0200_00 | QUEBRADA AMOROS | QUEBRADA AMOROS | 2.68 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0202_00 | QUEBRADA AGUAS VERDES | QUEBRADA AGUAS VERDES | 2.3 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |
| PRSE0204_00 | RIO NIGUAS DE SALINAS | RIO NIGUAS SALINAS | 7.04 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PRSE0209_00 | RIO COAMO | RIO COAMO | 7.29 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |

| ASSESSMENT UNIT | BASIN | WBNAME | WBSIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|------------------------|------------------------|----------------|----------|---|
| PRSE0211_00 | RIO DESCALABRADO | RIO DESCALABRAD | 3.07 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0214_00 | RIO JACAGUAS | RIO JACAGUAS | 7.04 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRSE0222_00 | RIO INABON | RIO INABON | 2.3 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PRSE0226_00 | RIO MATILDE - PASTILLO | RIO MATILDE - PASTILLO | 27.64 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) |
| PRSE0229_00 | RIO TALLABOA | RIO TALLABOA | 21.5 | 3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) |
| PRSE0231_00 | RIO MACANA | RIO MACANA | 2.3 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) |
| PRSE0234_00 | RIO YAUCO | RIO YAUCO | 1.92 | 3 | Hydromodification (7000) Upstream Impoundment (7350) |
| PRSE0241_00 | RIO LOCO | RIO LOCO | 5.37 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Resource Extraction (5000) Surface Mining (5100) Urban Runoff/Storm Sewers (4000) |
| PRWE0249_00 | QUEBRADA BOQUERON | QUEBRADA BOQUERON | 6.14 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWE0251_00 | QUEBRADA ZUMBON | QUEBRADA ZUMBON | 1.92 | 1 | |
| PRWE0253_00 | QUEBRADA GONZALEZ | QUEBRADA GONZALEZ | 5.12 | 1 | |

| ASSESSMENT UNIT | BASIN | WBNAME | WBSIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|-----------------------------|-----------------------------|----------------|----------|--|
| PRWE0255_00 | QUEBRADA LOS PAJARITOS | QUEBRADA LOS PARAJITOS | 1.92 | 1 | |
| PRWE0259_00 | RIO GUANAJIBO | RIO GUANAJIBO | 36.86 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Resource Extraction (5000) Surface Mining (5100) |
| PRWE0264_00 | CAÑO MERLE | CAÑO MERLE | 101.12 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Collection System Failure (0500) |
| PRWE0267_00 | RIO YAGUEZ | RIO YAGUEZ | 12.28 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Collection System Failure (0500) Industrial Point Sources (0100) Minor Industrial Point Sources (0120) |
| PRWE0271_00 | CAÑO BOQUILLA | CAÑO BOQUILLA | 39.68 | 1 | |
| PRWE0276_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 152.06 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) |
| PRWE0289_00 | QUEBRADA GRANDE DE CALVACHE | QUEBRADA GRANDE DE CALVACHE | 1.28 | 1 | |
| PRWE0291_00 | QUEBRADA LOS RAMOS | QUEBRADA LOS RAMOS | 0.38 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Collection System Failure (0500) |
| PRWE0295_00 | RIO GRANDE | RIO GRANDE | 1.79 | 1 | |
| PRWE0297_00 | CAÑO DE SANTI PONCE | CAÑO DE SANTI PONCE | 2.04 | 1 | |
| PRWE0299_00 | RIO GUAYABO | RIO GUAYABO | 18.43 | 3 | Collection System Failure (0500) |

| ASSESSMENT UNIT | BASIN | WBNAME | WBSIZE (ACRES) | CATEGORY | SOURCES OF POLLUTION |
|-----------------|----------------|----------------|----------------|----------|---|
| PRWE0303_00 | RIO CULEBRINAS | RIO CULEBRINAS | 86.01 | 3 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) |

PART VII

Groundwaters Assessment and Wetlands

Part VII: Groundwater Assessment and Wetlands

Chapter1: GROUNDWATERS ASSESSMENT

The principal uses of groundwater in Puerto Rico are for human consumption in industries, commercial establishments, and the general public; for irrigation purposes in agricultural activities, and for industrial and manufacturing processes.

In 1997, Puerto Rico used approximately 660 MGD of water to supply the demand for domestic, commercial, industrial and agricultural uses. Of these, 250 MGD (37.8%) are obtained from aquifers. The aquifers of the north coast provides more than 66 MGD. The south coast aquifer provides 74 MGD and the alluvial aquifer provides 24 MGD.

As it seen, groundwater is a vital water resource to the people of Puerto Rico. The protection of groundwater quality is an issue that has recently attained general public concern. This attention is due to the reporting of groundwater contamination. Once groundwater is contaminated it is extremely difficult and expensive to restore the aquifer to acceptable level of quality.

The Puerto Rico Environmental Quality Board (PREQB) is the designated state agency responsible for ensuring the quality of all waters of the Commonwealth of Puerto Rico, including groundwaters. To fulfill with this responsibility **PREQB** implements some strategies and programs. Some of these are: the Groundwater Monitoring Network, the Wellhead Protection Program (WHPP) and the Source Water Assessment Program (SWAP) that is implemented by the Department of Health in cooperation with PREQB and the USGS.

A. Groundwater Monitoring Network

The PREQB's Groundwater Monitoring Network consists of selected drinking water wells operated by the Puerto Rico Aqueduct and Server Authority (PRASA), in which sample are taken from the aquifers prior to treatment thus representing ambient monitoring data. A total of one hundred (100) wells are monitored to perform the groundwater assessment. Under this monitoring network the PREQB conduct sampling and analyses once per year for : nitrates, VOC's, SVOC's, pathogens, metals and pesticides. The selection of the wells for the network within municipalities was base on: area of location (site), population served and risk of contamination. The municipalities in which the drinking water wells of the nertwork are located were selected based on the following criteria established in the PREQB Ground Water Protection Plan: : groundwater dependence, hydrogeologic characteristics, presence of potential pollution sources, critical or ecological sensitive areas and presence of pollutants. Table 1 includes the name of the wells.

**TABLE I
GROUNDWATER QUALITY MONITORING PROGRAM FY-2002
SAMPLING STATIONS**

| STATION NAME | COORDINATES | MUNICIPALITY |
|---------------------------|--------------------|---------------------|
| Bateyes | 181152/670400 | Mayaguez |
| Beatriz III | 180853/660639 | Cayey |
| Boardaleza | 180012/655354 | Maunabo |
| Campanilla #8 | 182530/661319 | Toa Baja |
| Campo Alegre I | 182431/664650 | Hatillo |
| Carros Públicos | 180507/670822 | Cabo Rojo |
| Comercial AAA | 180043/663651 | Ponce |
| Florida #5 (La Ceiba) | 182125/663351 | Florida |
| Florida #9 (Parque Ceiba) | 182126/663331 | Florida |
| Garrochales 3 | 182737/663557 | Arecibo |
| La Joya | 180016/665304 | Guánica |
| Las Mareas | 175658/661553 | Salinas |
| Los Caños | 180048/665241 | Guánica |
| Mamey | 181445/655700 | Gurabo |
| Mogote | 180714/661020 | Cayey |
| Ojo de Agua 1 | 182340/664124 | Arecibo |
| Oliver | 175922/663705 | Ponce |
| Ollas (Descalabrado) | 180026/662606 | Santa Isabel |
| Paloma II (Lechuga) | 182637/664757 | Hatillo |
| Paso Seco #5 | 175855/662413 | Santa Isabel |
| Piedra Gorda | 182633/665240 | Camuy |
| Pozo I - Cabo Rojo I | 180603/670753 | Cabo Rojo |
| Pozo Est. Experimental 2 | 181551/655925 | Gurabo |
| Pozo Est. Experimental 1 | 181543/655926 | Gurabo |
| Reparto Metropolitano II | 182412/660441 | San Juan |
| Saltillo | 180845/64130 | Adjuntas |
| Saltillo Vaca | 180756/664341 | Adjuntas |
| Urbano 2 | 175851/661744 | Salinas |
| Villa Coquí | 180900/660417 | Caguas |
| Zanja V | 182708/665122 | Camuy |

**TABLE I – CONTINUED
GROUNDWATER MONITORING PROGRAM FY-2002
SAMPLING STATIONS**

| STATION NAME | COORDINATES | MUNICIPALITY |
|-------------------------|--------------------|---------------------|
| Alambra II | 180056/663610 | Ponce |
| Barinas | 180132/665034 | Yauco |
| Boquillas | 182751/602936 | Manatí |
| Bungalo | 180708/660842 | Cayey |
| Campo Alegre III | 182433/664727 | Hatillo |
| Coto Norte III (Atenas) | 182634/662625 | Manatí |
| Cruce Davila I | 182554/663401 | Barceloneta |
| Guayanilla Viejo | 180122/664755 | Guayanilla |
| Jacaboa I | 175857/655824 | Patillas |
| Jacaboa III | 175926/655806 | Patillas |
| Jobales 1 | 182144/663745 | Arecibo |
| Las Monjas Coqui 2 | 175821/661345 | Salinas |
| Manati 2 | 182550/663003 | Manatí |
| Mc. Dougals | 180625/670749 | Cabo Rojo |
| Monsserrate | 182629/662150 | Vega Alta |
| Pajonal I (San Agustín) | 182305/663348 | Barceloneta |
| Pajonal II (Cortes) | 182323/663309 | Barceloneta |
| Pozo II Cabo Rojo II | 180559/670754 | Cabo Rojo |
| Pugnado II | 182544/662438 | Vega Baja |
| Quebrada Nuevo | 180159/664754 | Guayanilla |
| Río Loco | 180151/665315 | Yauco |
| Roosevelt | 182509/660409 | San Juan |
| San Antonio II | 182707/661640 | Dorado |
| Tiburones II | 182604/663450 | Barceloneta |
| Vega Baja III | 182643/662405 | Vega Baja |
| Viskase | 182536/663324 | Barceloneta |

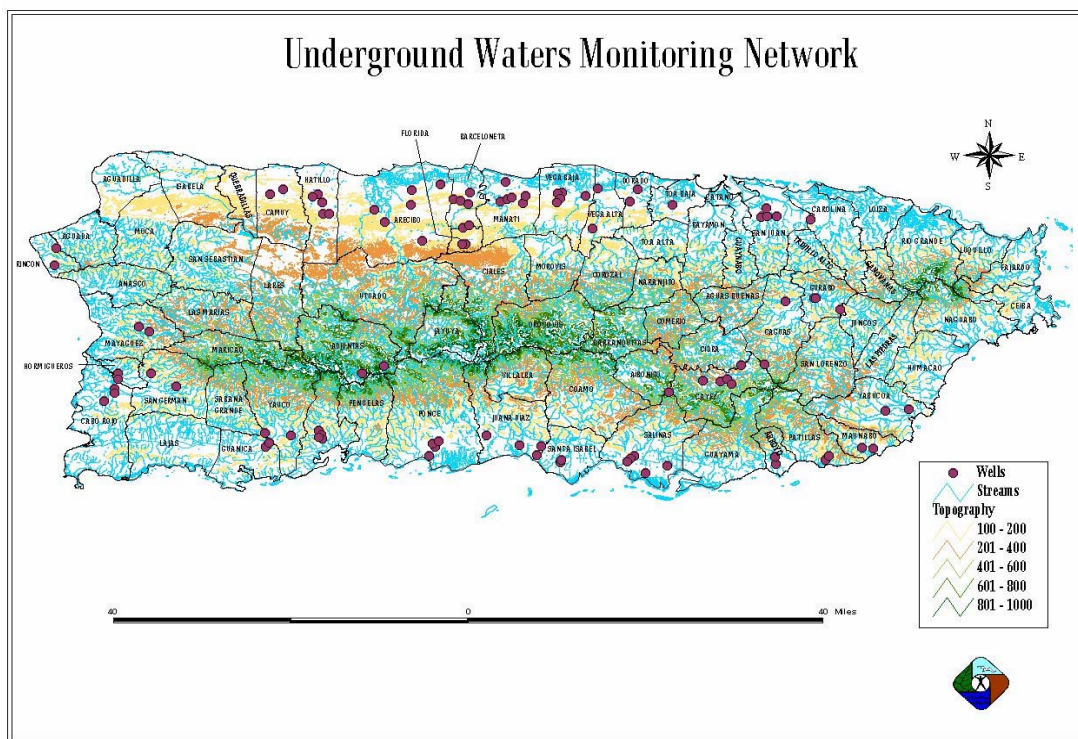
**TABLE I – CONTINUED
GROUNDWATER QUALITY MONITORING PROGRAM FY-2002
SAMPLING STATIONS**

| STATION NAME | COORDINATES | MUNICIPALITY |
|----------------------------|--------------------|---------------------|
| Albergue Olímpico | 180217/661416 | Salinas |
| Amelia II | 183006/662816 | Juana Díaz |
| Army #2 | 175927/551711 | Salinas |
| Belinda | 175920/660314 | Arroyo |
| Cain Alto (Capriles) | 180620/673017 | San Germán |
| Calvache II | 181910/671341 | Rincón |
| Calzada | 180014/655449 | Maunabo |
| Coco #4 | 175929/661658 | Salinas |
| Duey II (San Agustín) | 180722/670417 | San Germán |
| Esmeralda #2 | 175935/662046 | Santa Isabel |
| Experimental (Juana Díaz) | 180135/663132 | Juana Díaz |
| Godreau II | 175924/661703 | Salinas |
| Guayanés | 180417/655013 | Yabucoa |
| Hanes II | 175955/663659 | Ponce |
| Hormigueros III (Javieres) | 180708/670727 | Hormigueros |
| La Grúa (Yabucoa) | 180404/655231 | Yabucoa |
| Las Américas | 182418/660437 | San Juan |
| Los Sitios | 180135/664736 | Guayanilla |
| Marini | 181215/670527 | Mayaguez |
| Matadero 4 (Urbano) | 182456/664225 | Arecibo |
| Paso Seco 6 | 175833/662415 | Santa Isabel |
| Playita Cortada | 175933/662636 | Santa Isabel |
| Pozo I (Arroyo) | 175834/660317 | Arroyo |
| Puente II | 182055/661335 | Rincón |
| Levittown #6 | 182621/661104 | Toa Baja |
| Bairoa | 181629/660216 | Caguas |
| Cedro | 180655/660731 | Cayey |
| Bauzá | 180558/661340 | Cayey |
| UPR 1 | 182416/660308 | San Juan |
| Parque Escorial 1 | 182359/655948 | San Juan |
| Miraflores | 182527/663855 | Arecibo |
| Sabana Hoyos 2 | 182351/663611 | Arecibo |
| Bélgica | 180019/663630 | Ponce |
| Maguayo IV | 182548/661727 | Dorado |
| Paloma I | 182622/664827 | Hatilo |
| Quebrada Viejo | 180152/664750 | Guayanilla |
| Maricao | 182300/662109 | Vega Alta |
| Manatí 3 | 182604/662925 | Manatí |

| | | |
|----------------|---------------|-------------|
| Cotto Sur 1 | 182540/662754 | Manatí |
| Córdova Dávila | 182617/662902 | Manatí |
| Fortuna | 182646/663307 | Barceloneta |
| Pajuil | 185255/664721 | Hatillo |
| Sorbona | 182417/660401 | San Juan |
| Río Cañas | 180148/662801 | Juana Díaz |

Based on data collected, PREQB developed short and long term strategies to protect public health from any significant chemical or microbiological contamination of drinking water sources. Data obtained from the monitoring serves to develop a baseline on groundwater quality; and be representative of the overall water quality of the groundwaters which will in turn allow for the development of ground water quality standards. Figure 1 shows the location of the wells included in the Network.

Figure 1



The ambient groundwater quality data compiled by PREQB during this 305(b)/303(D) Report mostly revealed the presence of VOC's and pesticides in some of the aquifers monitored. In addition the Department of Health reported several drinking water wells contaminated Voc's. As part of the Wellhead Protection Program the Contingency Plan are been implemented in which PREQB are performing an investigation between the different sources of pollution to determines responsibilities and requires corrective

actions. **Table III** below shows a summary of the water quality assessment for groundwater public supply.

Table III

**WATER QUALITY ASSESSMENT FOR GROUNDWATER SYSTEMS (PWS)
PUERTO RICO 2002-305 (b) / 303 (d) INTEGRATED REPORT**

| Contaminant | Total Number of Wells for Which Data Were Reported | Number of Wells Impacted by MCL Exceedances | Contaminant Source |
|------------------------|---|--|--|
| METALS | 27 | BDL | N/A |
| PESTICIDES | 27 | 20 | Pesticide and fertilizer application |
| VOC | 29 | 27 | Underground Storage Tanks, Industrial Facilities and Landfills |
| SVOC'S | BDL | BDL | N/A |
| TOC | BDL | BDL | N/A |
| FECAL COLIFORMS | 4 | 4 | Septic Systems and Animal Feedlots |
| TOTAL COLIFORMS | 21 | 21 | Septic System and Animal Feedlots |

* BDL = Below Detection Limit. The contaminant was not detected.

During this reporting cycle several drinking water wells were closed for different reasons and the most significant cause was VOC contamination. **Table IV** shows the drinking water wells that were closed during this reporting cycle.

Table IV

**WATER QUALITY ASSESSMENT FOR GROUNDWATER SYSTEMS
PUERTO RICO 2002-305(B)/303(D) INTEGRATED REPORT
DRINKING WATER WELLS CLOSED DURING THIS REPORTING PERIOD**

| MUNICIPALITY | WELL NAME | REASON FOR CLOSURE |
|---------------------|-----------------------|--|
| Vega Alta | Regadera | VOC Contamination |
| Vega Alta | Vega Alta | VOC Contamination |
| Vega Alta | Vega Alta 2 | VOC Contamination |
| Dorado | Los Puertos | VOC Contamination |
| --- | Mínimas II | VOC Contamination |
| Cayey | La Ley | VOC Contamination |
| Guayama | Fibers II | Trihalometane |
| Guayama | Fibers III | Trihalometane |
| Guayama | Fibers IV | Trihalometane |
| Guayama | Fibers V | Trihalometane |
| Yabucoa | La Maloja | Fecal Coliforms |
| Juana Díaz | Autopista | VOC Contamination |
| Ponce | Col. Tecnológico | VOC Contamination |
| Ponce | Oliver Viejo | VOC Contamination |
| Ponce | Saurí | VOC Contamination |
| Ponce | Vocacional | Nitrates Contamination |
| San Juan | Los Pollitos | Fecal Coliforms |
| San Juan | Miguel Such | VOC Contamination |
| San Juan | Pozo Truman | VOC Contamination |
| Hormigueros | Pozo Hormigueros I | VOC Contamination (Trichloroethene) |
| Cidra | Pozo #8 Cementerio | VOC Contamination (Tetrachloroethene) |
| Cidra | Pozo #4 Padilla Final | VOC Contamination (Tetrachloroethene) |
| Aibonito | Llanos | VOC Contamination |
| Arecibo | Garrochales I | Tetrachloride |
| Arecibo | Garrochales II | Tetrachloride |
| Arecibo | Santana I | Solubles |
| Barceloneta | Vila | Mercury (Hg) |
| Camuy | Zanjas I | Fecal Coliforms |

| MUNICIPALITY | WELL NAME | REASON FOR CLOSURE |
|--------------|-----------------------------|--------------------|
| Camuy | Zanjas III | Fecal Coliforms |
| Camuy | Zanjas IV | Fecal Coliforms |
| Ciales | Rossy I | Tetrachloroethene |
| Ciales | Rossy II | Fe and Mn |
| Manatí | Cotto Sur II (Esc. Ramírez) | Nitrates |
| Manatí | Cotto Sur III (Roche) | Nitrates |
| Manatí | Montebello I | Fecal Coliforms |
| Quebradillas | Soler | Fecal Coliforms |
| Bayamón | Río Plantation I | High Sodium |
| Toa Baja | Campanilla 2 | High Sodium and Cn |
| Toa Baja | Campanilla 4 | High Sodium and Cn |
| Toa Baja | Campanilla 5 | High Sodium and Cn |
| Toa Baja | Levittown 2 | High Sodium and Cn |
| Vega Alta | Bajura 1 | VOC Contamination |
| Vega Alta | Bajura 2 | VOC Contamination |
| Vega Alta | Bajura 3 | VOC Contamination |
| Vega Alta | Bajura 4 | VOC Contamination |
| Vega Alta | Bajura 5 | VOC Contamination |
| Vega Alta | Ponderosa | VOC Contamination |
| Vega Alta | Regadera | VOC Contamination |
| Vega Alta | Vega Alta | VOC Contamination |

B. Wellhead Protection Program (WHPP)

PREQB developed a Wellhead Protection Program (**WHPP**), which was approved by **EPA** on April 5, 1991. The purpose of **WHPP** is to protect the immediate wellhead area of all drinking water wells in Puerto Rico in order to prevent an adverse effect on the persons which utilize the resource. The Safe Drinking Water Act (**SDWA**) defines a wellhead protection area as the surface and subsurface area surrounding a water well or well field, supplying a public water system, through which contaminants are reasonably likely to move toward and reach such water well or well field. The **WHPP** consist basically of the following elements:

- Development of the methodology and procedures for the delineation of the Wellhead Protection Areas (**WHPA's**)
- Identification and management of all potential pollution sources for groundwaters protection
- Development of a Contingency Plan
- Planning process for establishment of new wells.

PREQB continues with the implementation of the **WHPP**, Phase I delineation process with the use of Global Positioning Systems (**GPS**) technology. This phase is essential to achieve the goals of the program in terms of implement a good management and protection approaches necessary to prevent contamination of ground water resources used as drinking water. As well as we have an accurate protection areas, we will be in best position to protect the drinking water wells against the existing sources of pollution. At present there are 380 public water wells (PRASA) located with GPS. Approximately, 96 public water wells are still pending to be located with GPS to complete the the public system and then beging the delineation of the community (Non Prasa) system.

C. Sources Water Assessment Program (SWAP)

The Department of Health (DOH) of Puerto Rico, has the primacy for the Drinking Water Program and thus is the Lead Agency for the Drinking Water State Revolving Fund (DWSRF) Program. As part of the DWSRF, DOH, in coordination with state and federal agencies, through the Citizens and Technical Interagency Committees (advisory) are developing and implementing a Drinking Water Source Assessment Program (SWAP) in accordance with Section 1453 of the Safe Drinking Water Act (SDWA).

The **SWAP** , encouraged on a national level by the U.S. Environmental Protection Agency (EPA), envisions withing others, a partnership between local, state, and federal agencies to ensure that the quality of drinking water sources is maintained and protected.

The source water assessment is the first step in the development of a complete source water protection program. The assessment consists of:

1. Delineate the boundaries of a drinking water source protection areas (SWAP) defined as the zone through which contaminants, if present, are likely to migrate and reach a drinking water well or surface water intake.
2. Conduct inventories within delineated areas of any existing Significant Potential Source of Contamination (SPSC).
3. Perform an assessment to each PWS to determine its susceptibility to contamination from any of the contaminants associated to the SPSC inventoried for which Puerto Rico requires monitoring. The susceptibility analysis combines a sensitivity and a vulnerability analysis.

Puerto Rico's SWAP will address both groundwater and surface water sources. EPA has indicated in its source water assessment guidance (US EPA, 1997) that delineation and contaminant inventory elements for groundwater sources are to be consistent with the WHPP approach. In Puerto Rico the DOH has determined to use the 1,500 feet radius as a protection area for the groundwater systems located outside of the karst area. For the system located in the karst zone other approach will be used. has through EQB and EPA approved WHP Program since April, 1991. For surface water sources, DOH will coordinate with different agencies in order to use available information including sanitary surveys, monitoring records and any others drinking water related initiatives for the protection of drinking water sources in Puerto Rico.

Chapter 2: Wetlands

In Puerto Rico the wetland protection and conservation is the results of the efforts of at least three local agencies (Department of Natural and Environmental Resources , Environmental Quality Board and the Planning Board), and three federal agencies (Corps of Engineers, Fish and Wildlife Service and Environmental Protection Agency). However the agency with the primacy jurisdiction and custody of the wetlands system is the Department of Natural and Environmental Resources (DNER) . On 1997 the DNER adopted the Wetlands Management Plan (WMP) with the objective of develop and implement different management measures for the protection of these ecological systems. The most important management measures included in the WMP are:

- The adoption of standards procedures to evaluate urban development in wetlands areas.
- Public Education regarding the importance of the wetlands
- Watch all the activities implemented in wetlands areas

Some of the strategies established in the WMP for the protection of wetlands include:

- Periodic inspections
- Reforest impacted areas
- Identify sources of sedimentation
- Implement activities to reduce the sedimentation
- Promote the use of wetlands for scientific investigations
- Establish buffer zones
- Develop volunteers groups for wetlands management

After the evaluation of the different uses and activities that may cause stress for the wetlands, the WMP has identified twelve (12) wetlands areas in critical conditions. These are:

- Martín Peña
- Piñones
- Río Espiritu Santos

- Río Anton Ruiz
- Puerto Jobos
- Caña Gorda
- La Parguera
- Caño Boquerón
- Caño Boquilla
- Río Cibuco
- Flamenco
- Puerto Mosquito

For wetlands protection there are not specific water quality standards for wetlands in the PRWQSR. However, in order to be consistent with the anti-degradation policy the regulations states that “Class SE waters are surface waters and wetlands of exceptional ecological value, whose existing characteristics should not be altered in order to preserve the existing natural phenomena”. For this classification any parameter should not be exceeded thus, this provision implicit provides a mechanism to protect wetlands areas.

Table V shows the approximate acreage of wetlands in Puerto Rico per wetland type.

Table V

Puerto Rico 2002 305(b)/303(d) Integrated Report

| Puerto Rico Wetlands Inventory | | | | |
|---------------------------------------|---------------------|------------------|------------------|---------------------|
| System | Main Island | Culebra | Vieques | Total |
| Marine | 943,942.59 | 44,428.73 | 65,531.07 | 1,053,902.39 |
| Estuarine | 74,450.49 | 1,538.29 | 2,954.09 | 78,942.87 |
| Riverine | 660.85 | | 4.72 | 665.57 |
| Palustrine | 77,486.61 | 28.00 | 500.58 | 78,015.19 |
| Lacustrine | 415.41 | | | 415.41 |
| Total | 1,096,955.95 | 45,995.02 | 68,990.46 | 1,211,941.43 |

There are other efforts to protect wetlands systems in Puerto Rico. One of the most valuable wetlands and wildlife habitats is the Cabo Rojo Salt Flats. The Natural Heritage Program of the DNER considers the Cabo Rojo Salt Flats an area of high ecological value in the main island. In 1988 the Cabo Rojo Salt Flats were officially designated as Resource Category I Area, by the United States Fish and Wildlife Service. This designation is the highest ranking that can be given to a wetland area.

Since 1991 the Puerto Rico Conservation Foundation (PRCF) has developed a protection strategy for the acquisition of these salt flats. After, several years of negotiation and planning efforts, the PRCF, the DNER and U.S Fish and Wildlife Service combined funds and purchased 1,500 acres of Cabo Rojo Salts Flats. This public acquisition ensure that this site's ecological integrity will be sustained.



Cabo Rojo Salt Flats / Photo by PREQB

Chapter 3: Public Health and Aquatic Life Concerns

Fish kills and other contamination events in Puerto Rico may be caused by different factors such as natural events, storms, chemical spills, sanitary system overflows and also bad management practices in the agriculture. During this reporting cycle PREQB investigated eight (8) events related with fish kills.

PREQB classifies the fish kills contamination events in three (3) categories:

1. Minor kill: 1 to 100 dead or dying fish in 1 to 2 kilometers of waterbody
2. Moderate Kill: 100 to 1,000 dead or dying fish in up to 16 kilometers of waterbody

3. Major Kill: more than 1,000 dead or dying fish in any length of waterbody

Table VI shows a description of fish kills events for this reporting cycle.

Table VI
WATERBODIES AFFECTED BY FISH KILLS
Puerto Rico 2002 305(b)/303(d) Integrated Report

| WATERBODY | TYPE | CAUSE | SOURCES | CATEGORY | DATE |
|------------------------------------|-------------|---------------|------------------------|-----------------|-------------|
| Caño Los Tiburones | Channel | Low DO (1200) | Wastewaters (0210) | MINOR | 11/29/99 |
| Río Culebrinas | River | Low DO (1200) | Wastewaters (6200) | MINOR | 3/29/00 |
| Río Bucarabones Río La Plata | River | Low DO (1200) | Unknown sources (9000) | MODERATE | 6/8/00 |
| Quebrada Honda (Río Cibuco) | Creek | Low DO (1200) | Wastewaters (4400) | MINOR | 2/24/00 |
| Quebrada sin Nombre (Río La Plata) | River | Low DO (1200) | Unknown sources (9000) | MINOR | 8/11/00 |
| Quebrada Blasina | Creek | Low DO (1200) | Wastewater (6500) | MINOR | 8/8/00 |
| Laguna San José | Lagoon | Low DO (1200) | Algae grows | MINOR | 6/29/01 |
| Lago Dos Bocas | Lake | Low DO (1200) | Unknown sources (9000) | MODERATE | 8/20/000 |

In addition PREQB performed special studies and monitorings to investigate complaints from the public and to obtain other information on water quality . **Table VII** includes the special studies performed.

**Table VII
SPECIAL STUDIES
Puerto Rico 2002 305(b)/303 Integrated Report**

| WATERBOY NAME | WATERBODY TYPE | DATE | REASON FOR THE STUDY | MONITORED PARAMETERS | RESULTS |
|--|-----------------------|----------------------------|--|--|--|
| Río Cibuco | River | May 31, June 1 and 7, 2000 | Total Maximum Daily Load Development | NO ₃ + NO ₂ -N, NH ₃ -N, fecal coliforms, turbidity, TP, BOA-5, Metals | WQS Compliance |
| Caño Martín Peña | Channel | June 28, 2000 | San Juan Bay Estuary System | Fecal coliforms, enterococcus and turbidity | Violations for fecal coliforms, enterococcus and tubity. |
| Atlantic Ocean | Coastal | September 12, 2001 | Complaints | Fecal coliforms and enterococcus | Violation for enterococcus |
| Vieques and Culebra Islands, 33 stations | Coastal | September 5 to 29, 2000 | Navy military activities | Fecal coliforms and enterococcus, NH ₃ -N, NO ₂ + NO ₃ -NM, Hg, aceite y grasas | Violation for enterococcus |
| Canal Los Angeles | Channel | August 31, 2001 | Complaints | Fecal coliforms and enterococcus, DO, salinity and temperature | Violations for DO and fecal enterococcus |
| Quebrada Honda Río Cibuco | Creek | May 17, 2001 | Complaints | Fecal coliforms and enterococcus, pH, salinity | Violations for fecal coliforms and enterococcus |
| San Juan Bay | Coastal | February 1 to 28, 2001 | Construction dredging, San Juan Bay Harbor Deepening, (Phase II) | Turbidity | Compliance with WQS |
| Río Hondo | River | June 20, 2000 | Biological control for aquatic weed | Pesticides | Violation for Gamma-BHC |

APPENDIX I

LIST OF IMPAIRED WATERS

303 (d) List

**TOTAL MAXIMUM DIALY LOAD (TMDL) PROGRAM
 PUERTO RICO LIST OF IMPAIRED WATERS FOR 2002
 303(d) List**

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|------------------|------------------|-----------------|--|---|--------------------------|--------------|
| PREC0094b_00 | QUEBRADA BLASINA | QUEBRADA BLASINA | 11.3 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Collection System Failure (0500) Agriculture (1000) Confined animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecals Coliforms Nonpriority Organicsn (0400) Surfactants Metals (0500) Arsenic (0510) Mercury (0560) Ammonia (0600) Other Inorganics (0800) Manganase Phosphorus (0910) | H | 2101000505 |
| PRER0066b_00 | RIO LA PLATA | RIO LA PLATA | 44.5 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms | H | 2101000507 |
| PRER0069a_00 | RIO LA PLATA | RIO GUADIANA | 17.6 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Cyanide (0720) | H | 2101000507 |
| PRER0074b_00 | RIO LA PLATA | RIO LA PLATA | 16 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) | H | 2101000507 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|--------------|-----------------|-----------------|---|---|--------------------------|--------------|
| PRER0074j_00 | RIO LA PLATA | RIO LA PLATA | 18.3 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) | H | 2101000507 |
| PRER0080b_00 | RIO HONDO | RIO HONDO | 21 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Nonpriority Organicsn (0400) Ammonia (0600) Other Inorganics (0800) Manganase | H | 2101000506 |
| PRER0081b_00 | RIO BAYAMON | RIO BAYAMON | 11.3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Other Inorganics (0800) Manganase | H | 2101000506 |
| PRER0081c_00 | RIO BAYAMON | RIO BAYAMON | 29.4 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Collection System Failure (0510) Copper (0530) Cyanide (0720) Other Inorganics (0800) Manganase | H | 2101000506 |
| PRER0081h_00 | RIO BAYAMON | RIO BAYAMON | 25.7 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) | H | 2101000506 |
| PRER0088b_00 | RIO PIEDRAS | RIO PIEDRAS | 7.3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Lead (0550) Nonpriority Organicsn (0400) Ammonia (0600) Other Inorganics (0800) Manganase | H | 2101000505 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|---------------------|-------------------|-----------------|---|--|--------------------------|--------------|
| PRER0088d_00 | RIO PIEDRAS | RIO PIEDRAS | 18.9 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Nonpriority Organicsn (0400) Metals (0500) Arsenic (0510) Ammonia (0600) Cyanide (0720) Other Inorganics (0800) Manganase | H | 2101000505 |
| PRER0104b_00 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 12.3 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Resource Extraction (5000) Surface Mining (5100) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Cyanide (0720) Other Inorganics (0800) Manganase | H | 2101000504 |
| PRER0108b_00 | RIO GRANDE DE LOIZA | RIO GURABO | 18.6 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Ammonia (0600) Dissolved Oxygen (1200) Other Inorganics (0800) Manganase | H | 2101000504 |
| PRER0108h_02 | RIO GRANDE DE LOIZA | RIO GURABO | 6.9 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Phosphorus (0910) | H | 2101000504 |
| PRER0109b_00 | RIO GRANDE DE LOIZA | RIO BAIROA | 7.3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Cyanide (0720) Other Inorganics (0800) Manganase | H | 2101000504 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|---------------------|---------------------|-----------------|---|--|--------------------------|--------------|
| PRER0110b_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 16.2 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Nonpriority Organics (0400) Surfactants Ammonia (0600) Cyanide (0720) Other Inorganics (0800) Manganese | H | 2101000504 |
| PRER0110e_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 29 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Other Inorganics (0800) Manganese | H | 2101000504 |
| PRER0110f_02 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 12.3 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms | H | 2101000504 |
| PRER0110h_02 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 11.9 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Ammonia (0600) | H | 2101000504 |
| PRER0110i_02 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 24.7 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Ammonia (0600) | H | 2101000504 |
| PRER0118b_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 13.5 | Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Nonpriority Organicsn (0400) Surfactants | L | 2101000502 |
| PRER0133b_00 | RIO FAJARDO | RIO FAJARDO | 18 | Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) Lead (0550) | L | 2101000502 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|-----------------------|-----------------------|-----------------|---|--|--------------------------|--------------|
| PRER0133c_01 | RIO FAJARDO | RIIO FAJARDO | 2.7 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Unknown Source (9000) | Metals (0500) Lead (0550) | L | 2101000502 |
| PRER0160b_00 | RIO HUMACAO | RIO HUMACAO | 26 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Cyanide (0720) Other Inorganics (0800) Manganese | L | 2101000501 |
| PRER0165b_00 | RIO GUAYANES | RIO GUAYANES | 19.6 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms | L | 2101000501 |
| PRER0170b_00 | RIO MAUNABO | RIO MAUNABO | 16 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) Cyanide (0720) | L | 2101000501 |
| PRNR0029a_00 | RIO GUAJATACA | RIO GUAJATACA | 9.1 | Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Pathogens (1700) Fecal Coliforms | L | 2101000205 |
| PRNR0032c_00 | RIO GUAJATACA | RIO GUAJATACA | 5.6 | Agriculture (1000) Specialty Crop Production (1300) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Pathogens (1700) Fecal Coliforms | L | 2101000205 |
| PRNR0040a_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 14.1 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Cyanide (0720) Pathogens (1700) Fecal Coliforms Other Inorganics (0800) Manganese | H | 2101000204 |
| PRNR0040c_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 0.9 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) | H | 2101000204 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|-----------------------|-----------------------|-----------------|--|--|--------------------------|--------------|
| | | | | | Lead (0550) Mercury (0560) Other Inorganics (0800) Manganase | | |
| PRNR0041p_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 19 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Mercury (0560) Cyanide (0720) Other Inorganics (0800) Manganase Pathogens (1700) Fecal Coliforms | H | 2101000204 |
| PRNR0046b_00 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 37.9 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Other Inorganics (0800) Manganase Pathogens (1700) Fecal Coliforms | H | 2101000204 |
| PRNR0047c_00 | RIO GRANDE DE ARECIBO | RIO LIMON | 20.9 | Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms | H | 2101000204 |
| PRNR0048a_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 32.3 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Specialty Crop Production (1300) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Lead (0550) Other Inorganics (0800) Manganase Pathogens (1700) Fecal Coliforms | H | 2101000204 |
| PRNR0048e_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 27.5 | Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms | H | 2101000204 |
| PRNR0056c_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 11.2 | Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) | Metals (0500) Arsenic (0510) Cadmium (0520) Copper (0530) Lead (0550) Other Inorganics (0800) Manganase Pathogens (1700) Fecal Coliforms | H | 2101000202 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|----------------------|----------------------|-----------------|--|--|--------------------------|--------------|
| PRNR0056e_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 11.8 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms | H | 2101000202 |
| PRNR0056g_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 14.6 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Copper (0530) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms | H | 2101000202 |
| PRNR0056l_02 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 52.7 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) Package Plants (0230) Agriculture (1000) Confined Animal Feeding Operations (1640) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Mercury (0560) Pathogens (1700) Fecal Coliforms | H | 2101000202 |
| PRNR0056m_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 11.1 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Pathogens (1700) Fecal Coliforms | H | 2101000202 |
| PRNR0063e_01 | RIO CIBUCO | RIO CIBUCO | 12.8 | Industrial Point Sources (0100) Major Industrial Point Sources (0110) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Combined Sewer Overflow (0400) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Other Inorganics (0800) Manganese Pathogens (1700) Fecal Coliforms | H | 2101000201 |
| PRNR0063i_00 | RIO CIBUCO | RIO CIBUCO | 17.4 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Agriculture (1000) Confined Animal Feeding Operations (1640) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Nonpriority Organics (0400) Surfactants Pathogens (1700) Fecal Coliforms | H | 2101000201 |

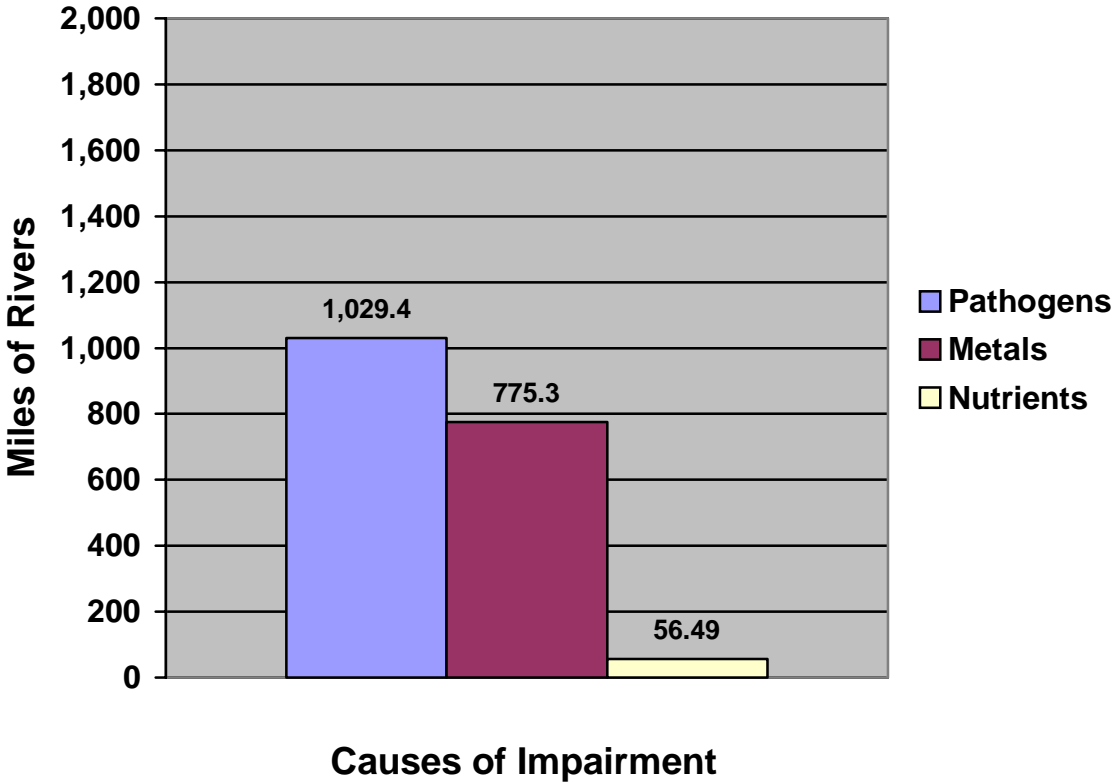
| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|------------------------|------------------------|-----------------|--|--|--------------------------|--------------|
| PRSR0177_00 | RIO CHICO | RIO CHICO | 2.7 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Hydromodification (7000) Upstream Impoundment (7350) | Pathogens (1700) Fecal Coliforms Nonpriority Organics (0400) Surfactants Ammonia (0600) Cyanide (0720) Metals (0500) Copper (0530) Nutrients (0900) Phosphorus (0910) | L | 2101000405 |
| PRSR0184a_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 14.1 | Land Disposal (6000) Onsite Wastewater Systems (6500) Agriculture (1000) Confined Animal Feeding Operations (1640) | Pathogens (1700) Fecal Coliforms | H | 2101000405 |
| PRSR0210b_00 | RIO COAMO | RIO COAMO | 27.4 | Land Disposal (6000) Onsite Wastewater Systems (6500) Urban Runoff/Storm Sewers (4000) Agriculture (1000) Confined Animal Feeding Operations (1640) Municipal Point Sources (0200) Package Plants (0230) | Pathogens (1700) Fecal Coliforms | H | 2101000404 |
| PRSR0224b_00 | RIO BUCANA - CERRILLOS | RIO BUCANA CERRILLOS | 0.8 | Urban Runoff/Storm Sewers (4000) Unknown Source (9000) | Metals (0500) Arsenic (0510) Mercury (0560) | L | 2101000403 |
| PRSR0225b_00 | RIO PORTUGUES | RIO PORTUGUES | 11.4 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Industrial Point Sources (0100) Minor Industrial Point Sources (0120) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) | L | 2101000403 |
| PRSR0225e_00 | RIO PORTUGUES | RIO PORTUGUES | 10.2 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms | L | 2101000403 |
| PRSR0233b_00 | RIO GUAYANILLA | RIO GUAYANILLA | 13.5 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Municipal Point Sources (0200) Minor Municipal Point Sources (0220) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) | H | 2101000402 |
| PRSR0242a_00 | RIO LOCO | RIO LOCO | 8.7 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) Hydromodification (7000) Upstream Impoundment (7350) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Low Dissolved Oxygen (1200) Other Inorganics (0800) Manganase | L | 2101000401 |
| PRWR0262b_00 | RIO GUANAJIBO | RIO GUANAJIBO | 60.2 | Collection System Failure (0500) Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Chromium Lead (0550) Pathogens (1700) Fecal Coliforms Cyanide (0720) Other Inorganics (0800) | H | 2101000304 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|----------------------|----------------------|-----------------|--|--|--------------------------|--------------|
| | | | | | Manganese | | |
| PRWR0262e_00 | RIO GUANAJIBO | RIO GUANAJIBO | 17.4 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Copper (0530) | H | 2101000304 |
| PRWR0262i_00 | RIO GUANAJIBO | RIO GUANAJIBO | 23.6 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Municipal Point Sources (0200) Major Municipal Point Sources (0210) Land Disposal (6000) Landfills (6300) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Nutrients (0900) | H | 2101000304 |
| PRWR0268c_00 | RIO YAGUEZ | RIO YAGUEZ | 22 | Agriculture (1000) Specialty Crop Production (1300) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Nonpriority Organicsn (0400) Surfactants | H | 2101000303 |
| PRWR0279a_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 24.4 | Industrial Point Sources (0100) Minor Industrial Point Sources (0120) Agriculture (1000) Specialty Crop Production (1300) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Mercury (0560) Other Inorganics (0800) Manganese | H | 2101000302 |
| PRWR0279h_01 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 20.6 | Land Disposal (6000) Onsite Wastewater Systems (6500) Unknown Source (9000) | Pathogens (1700) Fecal Coliforms Nonpriority Organicsn (0400) Surfactants Metals (0500) Copper (0530) Other Inorganics (0800) Manganese | H | 2101000302 |
| PRWR0279l_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 26.9 | Land Disposal (6000) Onsite Wastewater Systems (6500) Agriculture (1000) Specialty Crop Production (1300) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) | H | 2101000302 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|------------------------|-----------------|-----------------|--|--|--------------------------|--------------|
| PRWR0304a_00 | RIO CULEBRINAS | RIO CULEBRINAS | 28.3 | Urban Runoff/Storm Sewers (4000) Land Disposal (6000) Onsite Wastewater Systems (6500) | Pathogens (1700) Fecal Coliforms Metals (0500) Arsenic (0510) Copper (0530) Lead (0550) Mercury (0560) Other Inorganics (0800) Manganese | L | 2101000301 |
| PRWR0304e_01 | RIO CULEBRINAS | RIO CULEBRINAS | 37.9 | Municipal Point Sources (0200) Major Municipal Point Sources (0210) Collection System Failure (0500) Land Disposal (6000) Onsite Wastewater Systems (6500) | Metals (0500) Arsenic (0510) Other Inorganics (0800) Manganese | L | 2101000301 |
| PRNL0044_00 | Río Grande de Arcibo | Lago Caonillas | 700 acres | Land Disposal (6000) Onsite Wastewaters systems (65000) Agriculture(1000) Crop Production(1300) | Low Dissolved Oxygen | L | 2101000204 |
| PREL0105_00 | Río Grande de Loíza | Lago Loíza | 713 acres | Land Disposal (6000) Onsite Waste waters systems (65000) Agriculture (1000) Crop production (1300) Hydromodification (7000) | Low Dissolved Oxygen (1200) Othes Inoragnics (0800) | H | 2101000504 |
| PRSL0182_00 | Río Grande de Patillas | Lago Patillas | 312 acres | Land Disposal (6000) Onsite wastewaters systems (6500) Agriculture (1000) Crop Production (1300) | Low Dissolved Oxygen (1200) | L | 2101000405 |
| PRSL0196_00 | Quebrada Melanía | Lago Melanía | 35 acres | Agriculture (1000) Crop Production(1300) | Low Dissolved Oxygen (1200) | L | 210100040416 |
| PRSL0216_00 | Río Jacaguas | Lago Guayabal | 373 acres | Land Disposal (6000) Onsite wastewater systems (6500) | Low Dissolved Oxygen (1200) | L | 210100040312 |
| PRSL0217_00 | Río Jacaguas | Lago Toa Vaca | 836 acres | Agriculture (1000) Crop Productio (1300) | Low Dissolved Oxygen (12000) | L | 210100040311 |
| PRSL0236_00 | Río Yauco | Lago Luchetti | 266 acres | Land Disposal (6000) Onsite Wastewater systems (6500) | Low Dissolved Oxygen (1200) | L | 210100040207 |
| PRSL0247_00 | Río loco | Lago Loco | 69 acres | Land Disposal (6000) Onsite wastewater systems (6500) | Low Dissolved Oxygen (1200) | L | 2101000401 |
| PRSL0224_00 | Río Bacaná-Cerrillos | Lago Cerrillos | 700 acres | Hydromodification (7000) | Low Dissolved Oxygen (1200) | L | 2101000403 |
| PRNL0281_00 | Río Guajataca | Lago Guajataca | 1000 acres | Land Disposal (6000) Onsite wastewaters systems (65000) Agriculture (1000) Crop production (1300) Minor Industrial point source (0120) | Low Dissolved Oxygen (1200) Metals (0500) Arsenic (0510) | M | 210100020503 |

| ASSESSMENT UNIT (AU-ID) | BASIN | WATER BODY NAME | WB SIZE (MILES) | SOURCES OF POLLUTION | CAUSES OF IMPAIRMENT | Priority Ranking (H,M,L) | 10-digit HUC |
|-------------------------|------------------------|-----------------|-----------------|---|--|--------------------------|---------------------------------|
| PRWL0281_00 | Río Añasco | Lago Guayo | 285 acres | Agriculture (1000) Crop Productio (1300) Animal Feeding Operation (1600) | Low Dissolved Oxygen (1200) | L | 2101000302 |
| PREL0089_00 | Río Piedras | Lago Las Curias | 55 acres | Land Disposal (6000) Onsite Wastewater systems (6500) | Low Dissolved Oxygen (1200) | L | 2101000505 |
| PRELO082)00 | Río Bayamón | Lago Cidra | 268 acres | Animal Feeding operation (1600) Minor Industrial point source (0120) | Low Dissolved Oxygen (12000) | L | 2101000506 |
| PREL0067_00 | Río La Plata | Lago La Plata | 560 acres | Land Disposal (6000) Onsite wastewater systems(6500) Agriculture (1000) Crop Productio (1300) Animal Feeding Operation(1600) | Low Dissolved Oxygen (1200) | H | 2101000507 |
| PREL0076_00 | Río La Plata | Lago Carite | 333 acres | Agriculture (1000) Crop Production (1300) | Low Dissolved Oxygen (1200) | H | 2101000507 |
| PENLO059_00 | Río Arecibo | Lago Matrullas | 77 acres | Land Disposal (6000) Onsite wastewater systems (6500) | Low Dissolved Oxygen (1200) | L | 2101000204 |
| PRNL0049_00 | Río Grande de Arecibo | Lago Garzas | 108 acres | Agriculture (1000) Crop production (1300) Land Disposal (6000) Onsite wastewater system^(6500) | Low Dissolved Oxygen (1200) | L | 2101000204 |
| PREE0163_00 | RIO GUAYANES (Estuary) | RIO GUAYANES | 23.29 (acres) | Land Disposal (6000) Onsite Wastewater Systems (6500) | Nonpriority Organicsn (0400) Nutrients (0900) Phosphorus (0910) Dissolved Oxygen (1200) Pathogens (1700) | L | (12-digits HUC) 210100040205 |

Parameters for TMDLs
Implementation in Rivers



APPENDIX II

SCHEDULE FOR ROTATING BASIN MONITORING

SCHEDULE FOR ROTATING BASIN MONITORING /CATEGORY 3 WATERS
Puerto Rico 2002 305(b)/303(d) Report

| SEGMENT ID | WATERSHED | SEGMENT NAME | SEGMENT SIZE (miles) | YEAR FOR MONITORING |
|--------------|---------------------|---------------------|-------------------------|------------------------|
| PREC0102_00 | RIO GRANDE DE LOIZA | QUEBRADA BOCAFORMA | 3.4 | 1st year |
| PREC0106_00 | RIO GRANDE DE LOIZA | QUEBRADA CARRAIZO | 3 | |
| PREK0096_00 | RIO GRANDE DE LOIZA | CAÑO GALLARDO | 3.1 | |
| PREK0097_00 | RIO GRANDE DE LOIZA | CAÑO ZEQUEIRA | 4.8 | |
| PREK0099_00 | RIO GRANDE DE LOIZA | CAÑO NORBERTO | 0.7 | |
| PREK0100_00 | RIO GRANDE DE LOIZA | CAÑO CARRASCO | 1.2 | |
| PRER0101a_01 | RIO GRANDE DE LOIZA | RIO CANOVANAS | 3.7 | |
| PRER0101b_02 | RIO GRANDE DE LOIZA | RIO CANOVANAS | 28.9 | |
| PRER0103_00 | RIO GRANDE DE LOIZA | RIO CANOVANILLAS | 27.9 | |
| PRER0104a_01 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 31.8 | |
| PRER0104a_02 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 10.3 | |
| PRER0104a_03 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 0.7 | |
| PRER0104a_04 | RIO GRANDE DE LOIZA | QUEBRADA MARACUTO | 16.5 | |
| PRER0107_00 | RIO GRANDE DE LOIZA | RIO CAÑAS | 13.6 | |
| PRER0108a_00 | RIO GRANDE DE LOIZA | RIO GURABO | 10.9 | |
| PRER0108c_00 | RIO GRANDE DE LOIZA | RIO GURABO | 25.9 | |
| PRER0108d_00 | RIO GRANDE DE LOIZA | RIO GURABO | 37.7 | |
| PRER0108e_00 | RIO GRANDE DE LOIZA | RIO GURABO | 29.2 | |
| PRER0108f_00 | RIO GRANDE DE LOIZA | RIO GURABO | 17.5 | |
| PRER0108h_01 | RIO GRANDE DE LOIZA | RIO GURABO | 10 | |
| PRER0108i_00 | RIO GRANDE DE LOIZA | RIO GURABO | 8.6 | |
| PRER0109a_00 | RIO GRANDE DE LOIZA | RIO BAIROA | 5.2 | |
| PRER0109c_00 | RIO GRANDE DE LOIZA | RIO BAIROA | 3.8 | |
| PRER0110a_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 6.1 | |
| PRER0110c_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 3.8 | |
| PRER0110d_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 10.7 | |

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|--------------|---------------------|----------------------|----------|-----------------|
| PRER0110f_01 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 15.9 | |
| PRER0110g_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 12.2 | |
| PRER0110h_01 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 15 | |
| PRER0110i_01 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 12.7 | |
| PRER0110j_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 15.1 | |
| PRER0110k_00 | RIO GRANDE DE LOIZA | RIO GRANDE DE LOIZA | 24.3 | |
| PRNL0057_00 | LAGO GUINEO | | 54 acres | |
| PREC0070_00 | RIO LA PLATA | QUEBRADA ORTIZ | 2.1 | 2nd year |
| PREC0071_00 | RIO LA PLATA | QUEBRADA CANCEL | 7.2 | |
| PREC0072_00 | RIO LA PLATA | QUEBRADA DAJAOS | 4.5 | |
| PREC0077_00 | RIO LA PLATA | UNNAMED CREEK | 2.2 | |
| PREC0078_00 | RIO LA PLATA | UNNAMED CREEK | 1.7 | |
| PRER0064_00 | RIO LA PLATA | RIO COCAL | 12.8 | |
| PRER0066a_00 | RIO LA PLATA | RIO LA PLATA | 12.7 | |
| PRER0066c_00 | RIO LA PLATA | RIO LA PLATA | 3.7 | |
| PRER0066d_00 | RIO LA PLATA | RIO LA PLATA | 7.5 | |
| PRER0068_00 | RIO LA PLATA | RIO CAÑAS | 10.4 | |
| PRER0069b_00 | RIO LA PLATA | RIO GUADIANA | 5.4 | |
| PRER0073a_00 | RIO LA PLATA | RIO CUESTA ARRIBA | 3.1 | |
| PRER0073b_00 | RIO LA PLATA | RIO CUESTA ARRIBA | 7.5 | |
| PRER0074e_00 | RIO LA PLATA | RIO FRIO | 4 | |
| PRER0074i_00 | RIO LA PLATA | RIO LA PLATA | 14.8 | |
| PRER0074l_00 | RIO LA PLATA | RIO LA PLATA | | |
| PRER0074m_00 | RIO LA PLATA | RIO LA PLATA | 39.7 | |
| PRER0074n_00 | RIO LA PLATA | RIO LA PLATA | 8 | |
| PRER0074o_00 | RIO LA PLATA | RIO LA PLATA | 5.6 | |
| PRER0074p_00 | RIO LA PLATA | RIO LA PLATA | 21 | |
| PRER0075a_00 | RIO LA PLATA | RIO USABON | 39.2 | |
| PRER0075b_00 | RIO LA PLATA | RIO USABON | 13.1 | |
| PRER0075c_00 | RIO LA PLATA | RIO USABON | 21 | |
| PRNR0029b_02 | RIO GUAJATACA | RIO GUAJATACA | 3.4 | |
| PRNR0031_00 | RIO GUAJATACA | RIO CHIQUIO DE CIBAO | 2.6 | |
| PRNR0032a_00 | RIO GUAJATACA | RIO GUAJATACA | 8.7 | |

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|--------------|-----------------------|-----------------------|-------|-----------------|
| PRNR0032b_00 | RIO GUAJATACA | RIO GUAJATACA | 7.7 | |
| PRWR0304d_00 | RIO CULEBRINAS | RIO CULEBRINAS | 111.9 | |
| PRWR0304f_00 | RIO CULEBRINAS | RIO CULEBRINAS | 30 | |
| PRWR0305_01 | RIO CULEBRINAS | RIO CULEBRINAS | 44.5 | |
| PRWR0305_02 | RIO CULEBRINAS | RIO CULEBRINAS | 35.9 | |
| PRWR0268a_00 | RIO YAGUEZ | RIO YAGUEZ | 5.8 | |
| PRNR0039_00 | RIO GRANDE DE ARECIBO | RIO SANTIAGO | 9 | 3rd year |
| PRNR0040b_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 7.4 | |
| PRNR0041a_02 | RIO GRANDE DE ARECIBO | RIO TANAMA | 5.5 | |
| PRNR0041a_01 | RIO GRANDE DE ARECIBO | RIO TANAMA | 2.1 | |
| PRNR0041o_00 | RIO GRANDE DE ARECIBO | RIO TANAMA | 1.2 | |
| PRNR0046a_00 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 9.4 | |
| PRNR0046c_00 | RIO GRANDE DE ARECIBO | PRNR0046c | 10.9 | |
| PRNR0046d_02 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 23.6 | |
| PRNR0046d_01 | RIO GRANDE DE ARECIBO | RIO CAONILLAS | 14.6 | |
| PRNR0047e_00 | RIO GRANDE DE ARECIBO | RIO LIMON | 6.1 | |
| PRNR0048b_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 19.9 | |
| PRNR0048c_00 | RIO GRANDE DE ARECIBO | RIO GRANDE DE ARECIBO | 4 | |
| PRNR0056a_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 4.7 | |
| PRNR0056b_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 3.3 | |
| PRNR0056d_01 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 9.6 | |
| PRNR0056d_02 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 2.2 | |
| PRNR0056f_00 | RIO GRANDE DE MANATI | RIO GRANDE DE ARECIBO | 14 | |
| PRNR0056h_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 23.2 | |
| PRNR0056k_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 3.2 | |
| PRNR0056l_01 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 7.5 | |
| PRNR0056n_00 | RIO GRANDE DE MANATI | RIO GRANDE DE MANATI | 19.1 | |
| PRER0081a_00 | RIO BAYAMON | RIO BAYAMON | 5.7 | |
| PRER0081d_00 | RIO BAYAMON | RIO BAYAMON | 21.3 | |
| PRER0081e_00 | RIO BAYAMON | RIO BAYAMON | 16.6 | |
| PRER0081f_00 | RIO BAYAMON | RIO BAYAMON | 32.5 | |
| PRER0081g_00 | RIO BAYAMON | RIO BAYAMON | 34.2 | |
| PRER0083_00 | RIO BAYAMON | RIO PIEDRAS | 2.8 | |

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|--------------|----------------------|----------------------|------|-----------------|
| PRER0084_00 | RIO BAYAMON | RIO BAYAMON | 5.5 | |
| PRSR0233a_00 | RIO GUAYANILLA | RIO GUAYANILLA | 2.2 | |
| PRSR0233c_00 | RIO GUAYANILLA | RIO GUAYANILLA | 16 | |
| PRSR0233d_01 | RIO GUAYANILLA | RIO GUAYANILLA | 15.3 | |
| PRSR0233d_02 | RIO GUAYANILLA | RIO GUAYANILLA | 13 | |
| PRWR0277_00 | RIO GRANDE DE AÑASCO | RIO DAGUEY | 11 | 4th year |
| PRWR0278_00 | RIO GRANDE DE AÑASCO | RIO CAÑAS | 54.4 | |
| PRWR0279b_01 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 28 | |
| PRWR0279b_02 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 2.3 | |
| PRWR0279d_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 2.5 | |
| PRWR0279g_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 20.6 | |
| PRWR0279i_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 16 | |
| PRWR0279j_01 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 50.9 | |
| PRWR0279k_05 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 3.7 | |
| PRWR0279k_01 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 54.8 | |
| PRWR0279k_02 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 13.7 | |
| PRWR0279k_03 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 4.4 | |
| PRWR0279m_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 2.8 | |
| PRWR0279n_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 61.8 | |
| PRWR0279o_00 | RIO GRANDE DE AÑASCO | RIO GRANDE DE AÑASCO | 48.8 | |
| PRWR0280_00 | RIO GRANDE DE AÑASCO | RIO ARENAS | 18.3 | |
| PRWR0282_00 | RIO GRANDE DE AÑASCO | RIO CIDRA | 1.6 | |
| PRWR0284_01 | RIO GRANDE DE AÑASCO | RIO GUAYO | 5.5 | |
| PRWR0284_02 | RIO GRANDE DE AÑASCO | RIO GUAYO | 3.3 | |
| PRWR0284_03 | RIO GRANDE DE AÑASCO | RIO GUAYO | 0.4 | |
| PRNK0062_00 | RIO CIBUCO | CAÑO CABO VERDE | 3.4 | |
| PRNR0063a_00 | RIO CIBUCO | PRNR0063a | 5.5 | |
| PRNR0063b_00 | RIO CIBUCO | RIO CIBUCO | 1.6 | |
| PRNR0063c_00 | RIO CIBUCO | RIO CIBUCO | 2.2 | |
| PRNR0063d_00 | RIO CIBUCO | RIO CIBUCO | 6.9 | |
| PRNR0063e_02 | RIO CIBUCO | RIO CIBUCO | 3 | |
| PRNR0063f_00 | RIO CIBUCO | RIO CIBUCO | 51.2 | |
| PRNR0063g_01 | RIO CIBUCO | RIO CIBUCO | 15.2 | |

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|--------------|------------------------|---------------------------|------|-----------------|
| PRNR0063g_02 | RIO CIBUCO | RIO CIBUCO | 4.3 | |
| PRNR0063h_00 | RIO CIBUCO | RIO CIBUCO | 34 | |
| PRNR0063j_00 | RIO CIBUCO | RIO CIBUCO | 3.2 | |
| PRNR0063k_00 | RIO CIBUCO | RIO CIBUCO | 3.5 | |
| PRWR0261_00 | RIO GUANAJIBO | RIO HONDO | 17.2 | 5th year |
| PRWR0262a_00 | RIO GUANAJIBO | RIO GUANAJIBO | 13.5 | |
| PRWR0262c_00 | RIO GUANAJIBO | RIO GUANAJIBO (RIO VIEJO) | 21.1 | |
| PRWR0262d_00 | RIO GUANAJIBO | RIO GUANAJIBO | 8.4 | |
| PRWR0262f_00 | RIO GUANAJIBO | RIO GUANAJIBO | 22.7 | |
| PRWR0262g_01 | RIO GUANAJIBO | RIO GUANAJIBO | 6.5 | |
| PRWR0262h_00 | RIO GUANAJIBO | RIO GUANAJIBO | 1.6 | |
| PRWR0262j_02 | RIO GUANAJIBO | RIO GUANAJIBO | 5.3 | |
| PRWR0262j_01 | RIO GUANAJIBO | RIO GUANAJIBO | 8.6 | |
| PRWR0262k_01 | RIO GUANAJIBO | RIO GUANAJIBO | 2.7 | |
| PRWR0262l_01 | RIO GUANAJIBO | RIO GUANAJIBO | 13.7 | |
| PRWR0262m_00 | RIO GUANAJIBO | RIO GUANAJIBO | 2.1 | |
| PRWR0263a_00 | RIO GUANAJIBO | RIO GUANAJIBO | 60.7 | |
| PRSR0181_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 4 | |
| PRSR0183_01 | RIO GRANDE DE PATILLAS | RIO MARIN | 6.5 | |
| PRSR0184b_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 5.2 | |
| PRSR0184c_01 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 6.4 | |
| PRSR0184d_00 | RIO GRANDE DE PATILLAS | RIO GRANDE DE PATILLAS | 9 | |
| PRER0151a_01 | RIO BLANCO | RIO BLANCO | 0.9 | |
| PRER0151a_02 | RIO BLANCO | RIO BLANCO | 13.6 | |
| PRER0151c_00 | RIO BLANCO | RIO BLANCO | 5.8 | |
| PRER0151d_01 | RIO BLANCO | RIO BLANCO | 28 | |
| PRER0151d_02 | RIO BLANCO | RIO BLANCO | 6.8 | |
| PRSR0210a_01 | RIO COAMO | RIO COAMO | 7.5 | |
| PRSR0210a_02 | RIO COAMO | RIO COAMO | 35.5 | |
| PRSR0210c_00 | RIO COAMO | RIO COAMO | 17.6 | |
| PRSR0210d_00 | RIO COAMO | RIO COAMO | 5 | |
| PRSR0210f_00 | RIO COAMO | RIO COAMO | 1.9 | |
| PRSR0210g_00 | RIO COAMO | RIO COAMO | 18 | |

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|--------------|----------------------------|-------------------------------|------|-----------------|
| PRER0080a_00 | RIO HONDO | RIO HONDO | 1 | |
| PREC0094a_00 | QUEBRADA BLASINA | QUEBRADA BLASINA | 9.7 | |
| PRWK0257_00 | CAÑO CONDE AVILA | CAÑO CONDE AVILA | 4 | |
| PREC0085_00 | CAÑO CONTROL DE MALARIA | CAÑO CONTROL DE LA MALARIA | 8 | 6th year |
| PRWK0306_00 | CAÑO CORAZONES | CAÑO CORAZONES | 1.3 | |
| PRWK0298_00 | CAÑO DE SANTI PONCE | CAÑO DE SANTI PONCE | 4.8 | |
| PRWK0288_00 | CAÑO GARCIA | CAÑO GARCIA | 2 | |
| PRWK0270_00 | CAÑO MANI | CAÑO MANI | 3 | |
| PREC0092_00 | CAÑO MARTIN PEÑA | QUEBRADA JUAN MENDEZ | 7 | |
| PRWC0265_00 | CAÑO MERLE | QUEBRADA SABALOS | 9.5 | |
| PRWK0266_00 | CAÑO MERLE | CAÑO MERLE | 1.6 | |
| PRNK0053_00 | CAÑO TIBURONES | ZANJA SAN JOSE | 1.1 | |
| PRNK0054_00 | CAÑO TIBURONES | CAÑO TIBURONES | 11.5 | |
| PRNK0052_00 | CAÑO TIBURONES | UNNAMED CREEK | 26.1 | |
| PRSC0174_00 | QUEBRADA PALENQUE | QUEBRADA PALENQUE | 1 | |
| PRER0138_00 | QUEBRADA AGUAS CLARAS | QUEBRADA AGUAS CLARAS | 4.8 | |
| PRSC0203_00 | QUEBRADA AGUAS VERDES | QUEBRADA AGUAS VERDES | 15 | |
| PRSC0201_00 | QUEBRADA AMOROS | QUEBRADA AMOROS | 0.7 | |
| PRNC0034_00 | QUEBRADA BELLACA | QUEBRADA BELLACA | 1.7 | |
| PRWC0250_00 | QUEBRADA BOQUERON | QUEBRADA BOQUERON | 11.7 | |
| PRSC0192_00 | QUEBRADA BRANDERI | QUEBRADA BRANDERI | 4.5 | |
| PRWC0287_00 | QUEBRADA CAGUABO | QUEBRADA CAGUABO | 1 | |
| PREC0136_00 | QUEBRADA CEIBA | QUEBRADA CEIBA | 5 | |
| PRSC0190_00 | QUEBRADA CORAZON | QUEBRADA CORAZON | 9.7 | |
| PRNC0026_00 | QUEBRADA DE LOS CEDROS | QUEBRADA DE LOS CEDROS | 12 | |
| PRWC0269_00 | QUEBRADA DEL ORO | QUEBRADA DEL ORO | 10 | |
| PRNC0027_00 | QUEBRADA DEL TORO | QUEBRADA DEL TORO | 1 | |
| PRSC0172_00 | QUEBRADA FLORIDA | QUEBRADA FLORIDA | 3 | |
| PRWC0254_00 | QUEBRADA GONZALEZ | QUEBRADA GONZALEZ | 1.8 | |

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|---------------|-----------------------------|-----------------------------|------|-----------------|
| PRWC0290_00 | QUEBRADA GRANDE DE CALVACHE | QUEBRADA GRANDE DE CALVACHE | 14.8 | |
| PRWC0286_00 | QUEBRADA ICACOS | QUEBRADA ICACOS | 1.4 | |
| PRWC0285_00 | QUEBRADA JUSTO | QUEBRADA JUSTO | 1 | |
| PRWC0292_00 | QUEBRADA LOS RAMOS | QUEBRADA LOS RAMOS | 6.9 | |
| PRSC0171_00 | QUEBRADA MANGLILLO | QUEBRADA MANGLILLO | 1 | |
| PREC0124_00 | QUEBRADA MATA DE PLATANO | QUEBRADA MATA DE PLATANO | 4 | |
| PRSC0195_00 | QUEBRADA MELANIA | QUEBRADA MELANIA | 6 | 7th year |
| PRSC0197_00 | QUEBRADA MELANIA | QUEBRADA MELANIA | 1 | |
| PREC0143_00 | QUEBRADA PALMA | QUEBRADA PALMA | 11.8 | |
| PRWC0294_00 | QUEBRADA PILETAS | QUEBRADA PILETAS | 2 | |
| PRWC0293_00 | QUEBRADA PUNTA ENSENADA | QUEBRADA PUNTA ENSENADA | 5 | |
| PRSC0188_00 | QUEBRADA SALADA | QUEBRADA SALADA | 1.7 | |
| PREC0093_00 | QUEBRADA SAN ANTON | QUEBRADA SAN ANTON | 3 | |
| PRNC0037_00 | QUEBRADA SECA | QUEBRADA SECA | 2 | |
| PRSC0185_00 | QUEBRADA YAUREL | QUEBRADA YAUREL | 6 | |
| PRWC0252_00 | QUEBRADA ZUMBON | QUEBRADA ZUMBON | 1.7 | |
| PREC0153_00 | RIO ANTON RUIZ | QUEBRADA DE LAS MULAS | 3.5 | |
| PREC0154_00 | RIO ANTON RUIZ | QUEBRADA LA TINAJERA | 4.5 | |
| PRER0155_00 | RIO ANTON RUIZ | RIO ANTON RUIZ | 12.4 | |
| PREC0156_00 | QUEBRADA FRONTERAS | QUEBRADA FRONTERAS | 1.1 | |
| PREC0157_00 | QUEBRADA FRONTERAS | UNNAMED CREEK | 4.5 | |
| PREC0158_00 | QUEBRADA FRONTERAS | QUEBRADA FRONTERAS | 2.9 | |
| PRSR0248-B_00 | RIO ARROYO CAJUL | RIO ARROYO CAJUL | 7.4 | |
| PRSR0213_00 | RIO CAÑAS | RIO CAÑAS | 8 | |
| PRER0162_00 | RIO CANDELERO | RIO CANDELERO | 10.4 | |
| PRSR0208_00 | RIO CAYURES | RIO CAYURES | 5 | |
| PREC0140_00 | RIO DAGUAO | UNNAMED CREEK | 4.3 | |
| PRER0141_00 | RIO DAGUAO | RIO DAGUAO | 9.5 | |
| PRER0135_00 | RIO DEMAJAGUA | RIO DEMAJAGUA | 2.8 | |
| PRSR0212_00 | RIO DESCALABRADO | RIO DESCALABRADO | 18.8 | |

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|--------------|------------------------|--------------------|------------|-----------------|
| PRWR0296_00 | RIO GRANDE | RIO GRANDE | 21.8 | |
| PRSR0193a_00 | RIO GUAMANI | RIO GUAMANI | 1.9 | |
| PRSR0193b_00 | RIO GUAMANI | RIO GUAMANI | 6.5 | |
| PRSR0193c_00 | RIO GUAMANI | RIO GUAMANI | 13.6 | |
| PRWR0300_00 | RIO GUAYABO | RIO INGENIO | 22.1 | |
| PRWR0301_00 | RIO GUAYABO | RIO CULEBRA | 18.4 | |
| PRWR0302_00 | RIO GUAYABO | RIO GUAYABO | 2.6 | |
| PRER0112_00 | RIO HERRERA | RIO HERRERA | 17 | |
| PRSR0173_01 | RIO JACABOA | RIO JACABOA | 4.9 | 8th year |
| PRSR0173_02 | RIO JACABOA | RIO JACABOA | 8.1 | |
| PREC0130_00 | QUEBRADA FAJARDO | QUEBRADA FAJARDO | 10 | |
| PRER0129_00 | RIO JUAN MARTIN | RIO JUAN MARTIN | 7.8 | |
| PRSR0207_00 | RIO JUEYES | RIO JUEYES | 11 | |
| PRSR0232_01 | RIO MACANA | RIO MACANA | 20.8 | |
| PRSR0232_02 | RIO MACANA | RIO MACANA | 0.9 | |
| PRSC0227_00 | RIO MATILDE - PASTILLO | QUEBRADA DEL AGUA | 8 | |
| PRSR0228a_01 | RIO MATILDE - PASTILLO | RIO MATILDE | 24 | |
| PRSR0228a_02 | RIO MATILDE - PASTILLO | RIO MATILDE | 1.6 | |
| PRSR0228b_00 | RIO MATILDE - PASTILLO | RIO MATILDE | 4.2 | |
| PRSR0228c_01 | RIO MATILDE - PASTILLO | RIO MATILDE | 6.3 | |
| PRSR0228c_02 | RIO MATILDE - PASTILLO | RIO MATILDE | 7.1 | |
| PRSR0205_00 | RIO NIGUAS | RIO NIGUAS SALINAS | 29 | |
| PRSR0206_01 | RIO NIGUAS | RIO MAJADA | 68 | |
| PRSR0206_02 | RIO NIGUAS | RIO MAJADA | 5.5 | |
| PRER0148_00 | RIO SANTIAGO | RIO SANTIAGO | 2.6 | |
| PRER0149a_00 | RIO SANTIAGO | RIO SANTIAGO | 1.8 | |
| PRER0149b_01 | RIO SANTIAGO | RIO SANTIAGO | 6.5 | |
| PRER0149b_02 | RIO SANTIAGO | RIO SANTIAGO | 4.4 | |
| PRSR0199_00 | RIO SECO | RIO SECO | 24.7 | |
| PRSE0229_00 | RIO TALLABOA | RIO TALLABOA | 21.5 acres | |
| PRSR0230a_00 | RIO TALLABOA | RIO TALLABOA | 2.1 | |
| PRSR0230b_00 | RIO TALLABOA | RIO TALLABOA | 6.3 | |
| PRSR0230c_01 | RIO TALLABOA | RIO TALLABOA | 18 | |

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| PRSR0230c_02 | RIO TALLABOA | RIO TALLABOA | 16.3 | |
| PRSR0230d_01 | RIO TALLABOA | RIO TALLABOA | 15.4 | |
| PRSR0230d_02 | RIO TALLABOA | RIO TALLABOA | 1.5 | |
| PRSR0186_01 | RIO NIGUAS - ARROYO | RIO NIGUAS | 19.8 | |
| PRSR0223a_00 | RIO INABON | RIO INABON | 14.1 | |
| PRSR0223b_01 | RIO INABON | RIO INABON | 22.8 | |
| PRSR0223b_02 | RIO INABON | RIO INABON | 5.3 | |
| PRSR0223c_01 | RIO INABON | RIO INABON | 23.3 | |
| PRSC0237_00 | RIO YAUCO | QUEBRADA GRANDE | 7.7 | 9th year |
| PRSC0238_00 | RIO YAUCO | QUEBRADA NARANJO | 4 | |
| PRSC0239_00 | RIO YAUCO | UNNAMED CREEK | 2.3 | |
| PRSR0235a_00 | RIO YAUCO | RIO YAUCO | 18.2 | |
| PRSR0235b_00 | RIO YAUCO | RIO YAUCO | 1.8 | |
| PRSR0235c_01 | RIO YAUCO | RIO YAUCO | 26.1 | |
| PRSR0235c_02 | RIO YAUCO | RIO YAUCO | 15.3 | |
| PRSR0240_00 | RIO YAUCO | RIO YAUCO | 18.3 | |
| PRSR0224a_00 | RIO BUCANA - CERRILLOS | RIO BUCANA CERRILLOS | 27 | |
| PRSR0224c_00 | RIO BUCANA - CERRILLOS | RIO BUCANA CERRILLOS | 32.6 | |
| PRSC0221_00 | RIO JACAGUAS | QUEBRADA JAGUEYES | 1.7 | |
| PRSR0215a_00 | RIO JACAGUAS | RIO JACAGUAS | 12.1 | |
| PRSR0215b_00 | RIO JACAGUAS | RIO JACAGUAS | 3 | |
| PRSR0215c_00 | RIO JACAGUAS | RIO JACAGUAS | 7.7 | |
| PRSR0219_00 | RIO JACAGUAS | RIO TOA VACA | 27.8 | |
| PRSR0220a_00 | RIO JACAGUAS | RIO JACAGUAS | 4.2 | |
| PRSR0220b_00 | RIO JACAGUAS | RIO JACAGUAS | 3 | |
| PRSR0220c_00 | RIO JACAGUAS | RIO JACAGUAS | 26.3 | |
| PRSC0245_00 | RIO LOCO | UNNAMED CREEK | 0.6 | |
| PRSK0243_00 | RIO LOCO | CANAL DE DRENAJE | 66.5 | |
| PRSR0242b_00 | RIO LOCO | RIO LOCO | 9.2 | |
| PRSR0244_00 | RIO LOCO | RIO CAÑAS | 8 | |
| PRSR0248-A_00 | RIO LOCO | RIO LOCO | 19.5 | |
| PRWC0272_00 | CAÑO BOQUILLA | UNNAMED CREEK | 4.2 | |
| PRWC0274_00 | CAÑO BOQUILLA | UNNAMED CREEK | 3 | |

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| PRWK0275_00 | CAÑO BOQUILLA | CAÑO BOQUILLA | 3.9 | |
| PREC0132_00 | RIO FAJARDO | QUEBRADA MATA REDONDA | 5 | |
| PRER0133a_00 | RIO FAJARDO | RIO FAJARDO | 1 | |
| PRER0133c_02 | RIO FAJARDO | RIO FAJARDO | 23.3 | |
| PRNR0036a_01 | RIO CAMUY | RIO CAMUY | 1 | |
| PREC0167_00 | CAÑO DE SANTIAGO | QUEBRADA LAJAS | 1.7 | |
| PREK0168_01 | CAÑO DE SANTIAGO | CAÑO SANTIAGO | 9 | |
| PRSC0178_01 | RIO CHICO | QUEBRADA MAMEY | 4.6 | 10th year |
| PRSC0178_02 | RIO CHICO | QUEBRADA MAMEY | 0.5 | |
| PRSR0176_00 | RIO CHICO | RIO CHICO | 1.8 | |
| PRSR0179_02 | RIO CHICO | RIO DE APEADERO | 3.3 | |
| PRSR0179_01 | RIO CHICO | RIO DE APEADERO | 1.7 | |
| PRER0164_00 | RIO GUAYANES | RIO INGENIO | 32.6 | |
| PRER0165a_01 | RIO GUAYANES | RIO GUAYANES | 24.2 | |
| PRER0165a_02 | RIO GUAYANES | RIO GUAYANES | 0.9 | |
| PRER0165c_00 | RIO GUAYANES | RIO GUAYANES | 17.3 | |
| PRER0121_00 | RIO MAMEYES | RIO MAMEYES | 1.6 | |
| PRER0122_00 | RIO MAMEYES | RIO MAMEYES | 1.7 | |
| PRER0123a_00 | RIO MAMEYES | RIO MAMEYES | 8.4 | |
| PRER0123b_00 | RIO MAMEYES | RIO MAMEYES | 17.3 | |
| PRER0126a_00 | RIO SABANA | RIO PITAHAYA | 6.6 | |
| PRER0126b_00 | RIO SABANA | RIO PITAHAYA | 10.8 | |
| PRER0127a_00 | RIO SABANA | RIO SABANA | 2.2 | |
| PRER0127b_01 | RIO SABANA | RIO SABANA | 3.7 | |
| PREE0113a_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 316.8 acres | |
| PREE0113b_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 51.71 acres | |
| PREC0114_00 | RIO ESPIRITU SANTO | QUEBRADA CULEBRA | 1.8 | |
| PREC0115_00 | RIO ESPIRITU SANTO | QUEBRADA JUAN GONZALEZ | 2.7 | |
| PREC0116_00 | RIO ESPIRITU SANTO | QUEBRADA DE LOS RAYOS | 6.3 | |
| PRER0117_01 | RIO ESPIRITU SANTO | RIO GRANDE | 19.8 | |
| PRER0118a_00 | RIO ESPIRITU SANTO | RIO ESPIRITU SANTO | 9.7 | |
| PRSR0225a_00 | RIO PORTUGUES | RIO PORTUGUES | 3.2 | |
| PRSR0225c_00 | RIO PORTUGUES | RIO PORTUGUES | 14.7 | |

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| PRSR0225d_01 | RIO PORTUGUES | RIO PORTUGUES | 2.9 | |
| PRSR0225d_02 | RIO PORTUGUES | RIO PORTUGUES | 0.6 | |
| PRSR0225f_00 | RIO PORTUGUES | RIO PORTUGUES | 11 | |
| PRER0160a_00 | RIO HUMACAO | RIO HUMACAO | 8.9 | |
| PRER0160c_00 | RIO HUMACAO | RIO HUMACAO | 17 | |
| PRER0160d_00 | RIO HUMACAO | RIO HUMACAO | 3.9 | |
| PRER0170a_00 | RIO MAUNABO | RIO MAUNABO | 13 | |
| PRER0170c_01 | RIO MAUNABO | RIO MAUNABO | 6.1 | |
| PREC0145_00 | QUEBRADA BOTIJAS | QUEBRADA BOTIJAS | 1.4 | 11th year |
| PREC0146_00 | QUEBRADA BOTIJAS | QUEBRADA BOTIJAS | 6 | |