OMB No. 2506-0177
(exp. 7/31/2028)

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Sole Source Aquifers (CEST and EA) - PARTNER

HUD Exchange Sole Source Aquifers Page

1. **Is the project located on a sole source aquifer (SSA)[1]?**
   ☒No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project or jurisdiction in relation to the nearest SSA.*

   ☐Yes → *Continue to Question 2.*

2. **Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?**
   ☐Yes → *The review is in compliance with this section. Continue to the Worksheet Summary below.*

   ☐No → *Continue to Question 3.*

3. **Does your region have a memorandum of understanding (MOU) or other working agreement with EPA for HUD projects impacting a sole source aquifer?**
   Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area.
   ☐Yes → *Continue to Question 4.*

   ☒No → *Continue to Question 5.*

4. **Does your MOU or working agreement exclude your project from further review?**
   ☐Yes → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.*

   ☐No → *Continue to Question 5.*

5. **Will the proposed project contaminate the aquifer and create a significant hazard to public health?**
   Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area. EPA will also want to know about water, storm water and waste water at the proposed project. Follow your MOU or working agreement or contact your Regional EPA office for specific information you may

[1] A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

☐No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination*.

☐Yes → *The RE/HUD will work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. <u>If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied.</u> Continue to Question 6.*

<u>Worksheet Summary</u>

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

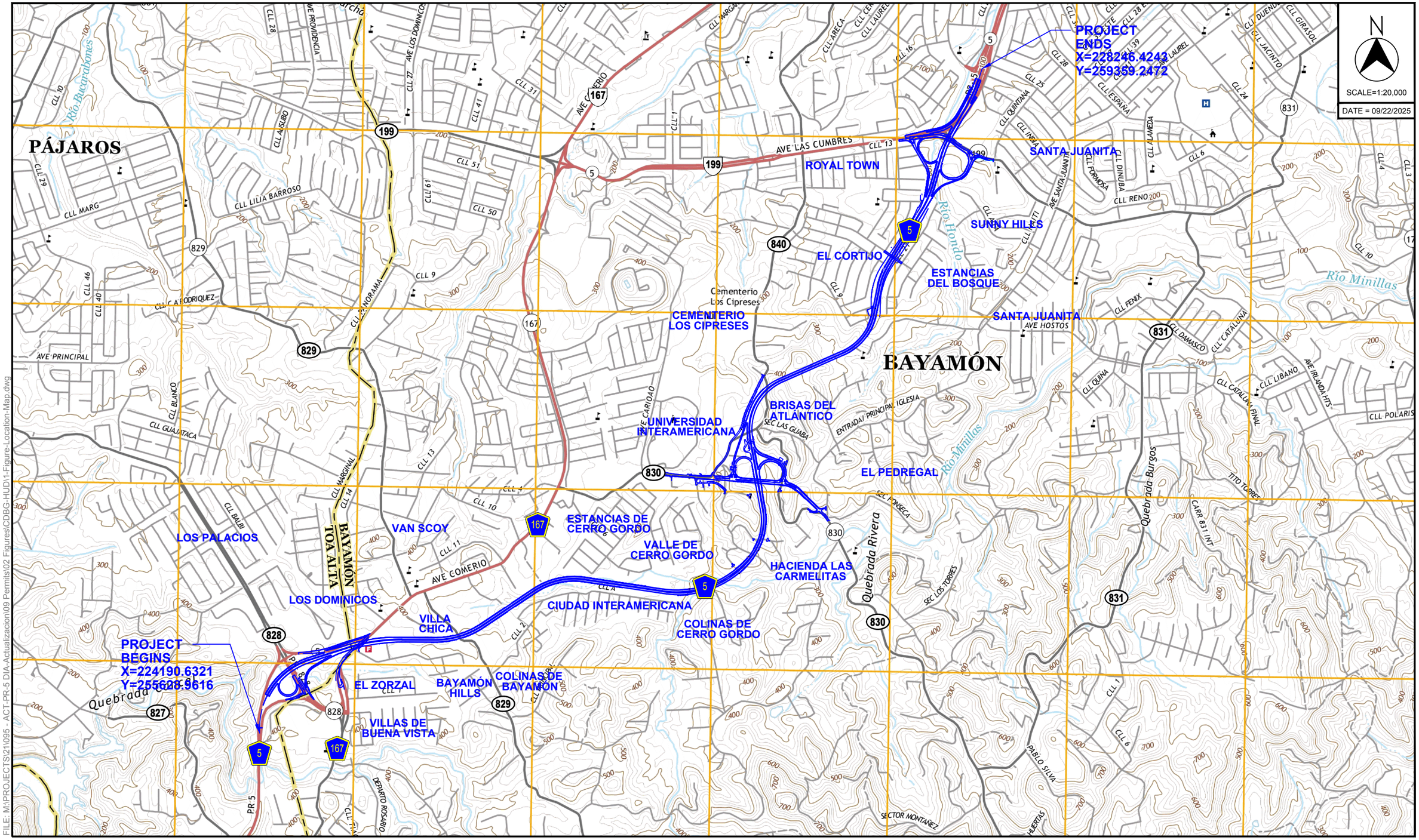
Include all documentation supporting your findings in your submission to HUD.

As per the Environmental Protection Agency (EPA) and the Puerto Rico Planning Board websites there are no sole source aquifer within the project area. Th nearest known water well is outside the project area at about 30 meters from the ROW limit. See Figure-Sole Source Aquifer attached and following supporting websites. See Attached Figures.

https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b

https://gis.jp.pr.gov/mipr/

Based on above the Project is in compliance with this section.



SOURCE: U.S.G.S TOPOGRAPHIC MAPS 2018

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FIGURE LOCATION MAP

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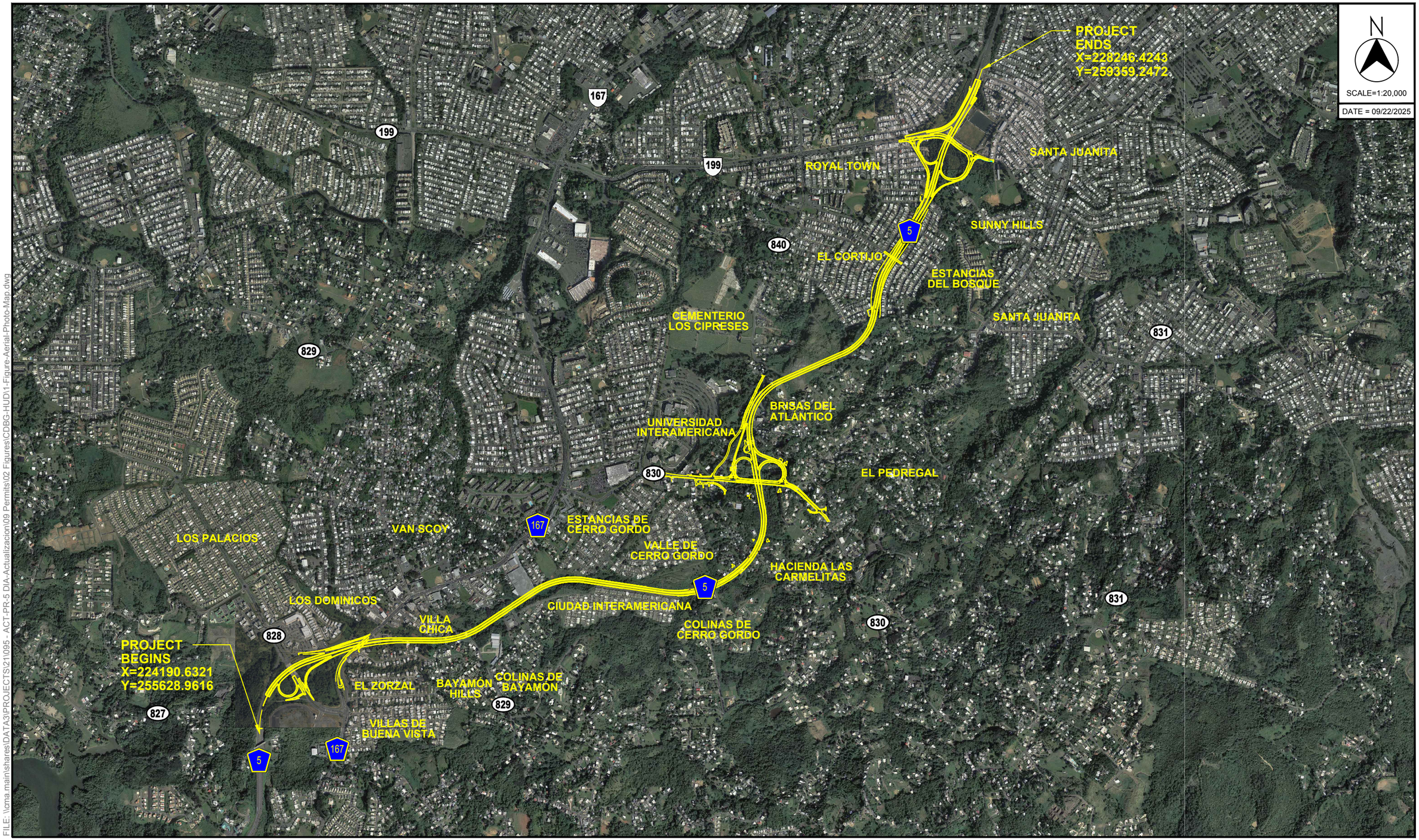

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SOURCE: AERIAL PHOTO GOOGLE MAPS 2010

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FIGURE AERIAL PHOTO MAP

SOLE SOURCE AQUIFERS



7/21/2023, 8:27:47 AM

Sole_Source_Aquifers

1:9,244,649

0 100 200 400 mi

0 165 330 660 km

Esri, HERE, Garmin, NGA, USGS, NPS

U.S. Environmental Protection Agency

PROJECT ENDS

PROJECT BEGINS

ESTANCIAS DE CERRO GORDO WELL

40 MTS

PÁJAROS

BAYAMÓN

SANTA JUANITA

ROYAL TOWN

SUNNY HILLS

EL CORTIJO

ESTANCIAS DEL BOSQUE

CEMENTERIO LOS CIPRESES

Cementerio Los Cipreses

UNIVERSIDAD INTERAMERICANA

BRISAS DEL ATLÁNTICO

EL PEDREGAL

LOS PALACIOS

VAN SCOY

ESTANCIAS DE CERRO GORDO

VALLE DE CERRO GORDO

HACIENDA LAS CARMELITAS

LOS DOMINICOS

VILLA CHICA

CIUDAD INTERAMERICANA

COLINAS DE CERRO GORDO

EL ZORZAL

BAYAMÓN HILLS

COLINAS DE BAYAMÓN

VILLAS DE BUENA VISTA

BAYAMÓN TOA ALTA

Río Bucarabones

Río Hondo

Río Minillas

Quebrada Cancel

Quebrada Rivera

Quebrada Burgos

AVE LAS CUMBRES

AVE COMERIO

AVE PRINCIPAL

CLL LILIA BARROSO

CLL CATODRIQUEZ

CLL GUAJATACA

CLL BLANCO

CLL BALBI

CLL MARG

CLL 29

CLL 10

CLL 46

CLL 40

CLL 28

CLL 27

CLL 31

CLL 41

CLL 51

CLL 61

CLL 50

CLL 9

CLL 1

CLL 4

CLL 6

CLL 7

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CLL 13

CLL 14

CLL 16

CLL 24

CLL 35 ESTE

CLL 37

CLL 39

CLL 41

CLL ESPAÑA

CLL QUINTANA

CLL INGLATERRA

CLL FORMOSA

CLL DINUBA

CLL RENO

CLL FENIX

CLL DAMASCO

CLL CATALUÑA

CLL LIBANO

CLL QUINA

CLL POLARIS

AVE LAUREL

AVE SANTA JUANITA

AVE HOSTOS

AVE IRLANDA HTS

AVE CARIBOA

SEC LAS GUABA

SEC PONSECA

SEC LOS TORRES

ENTRADA/ PRINCIPAL IGLESIA

SECTOR MONTAÑEZ

PABLO SILVA

TITO TORRES

CARR 831 INT

PR-5

DEPARTO ROSARIO

167 199 5 829 828 827 840 830 831

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FILE: M:\PROJECTS\211095 - ACT-PR-5 DIA-Actualizacion\09 Permits\02 Figures\CDBG-HUD\4A-Figure Coastal Barrier Resource.dwg

SOURCE: U.S.G.S TOPOGRAPHIC MAPS 2018

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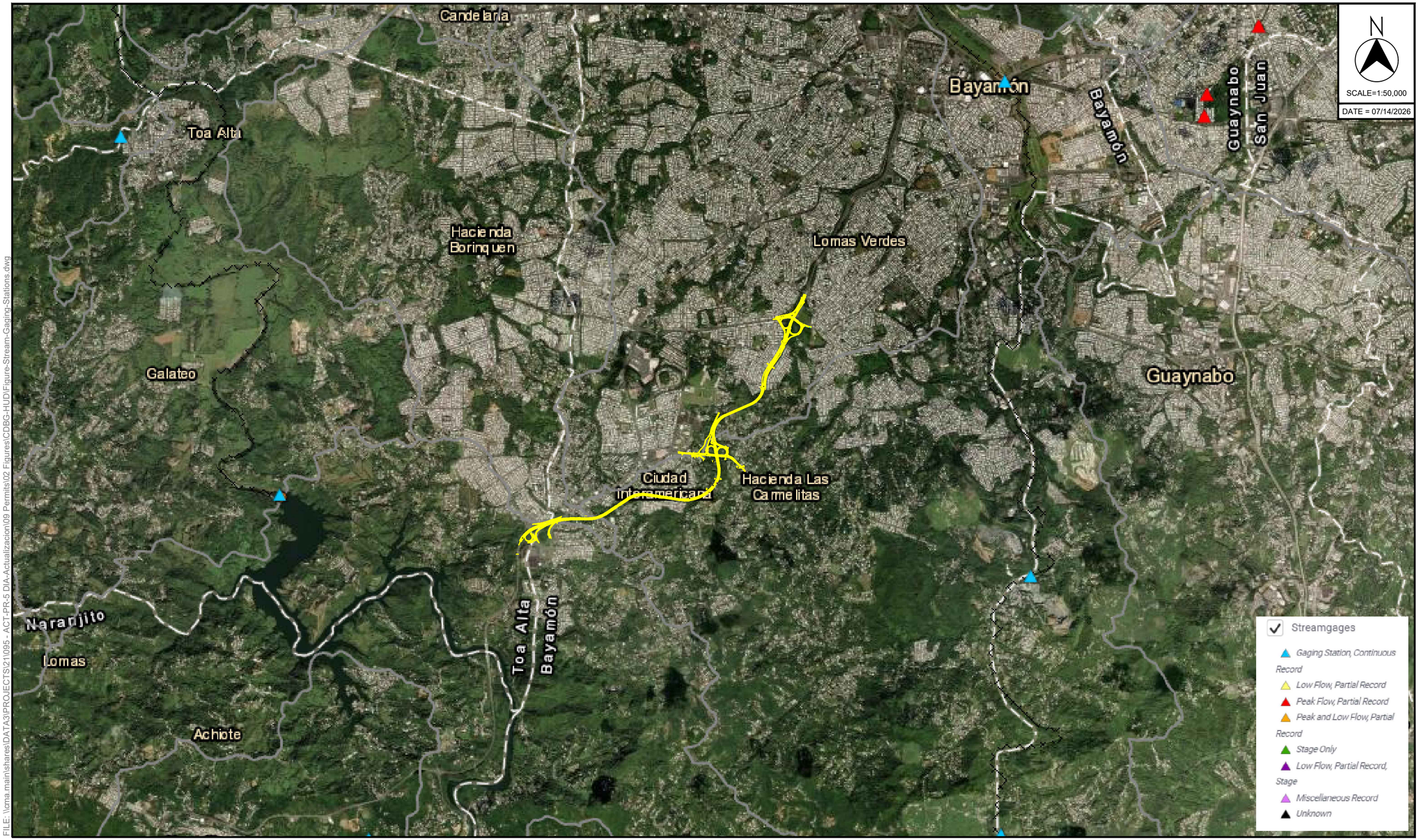
FIGURE COASTAL BARRIER RESOURCES MAP



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SOURCE: USGS STREAM STATS MAP

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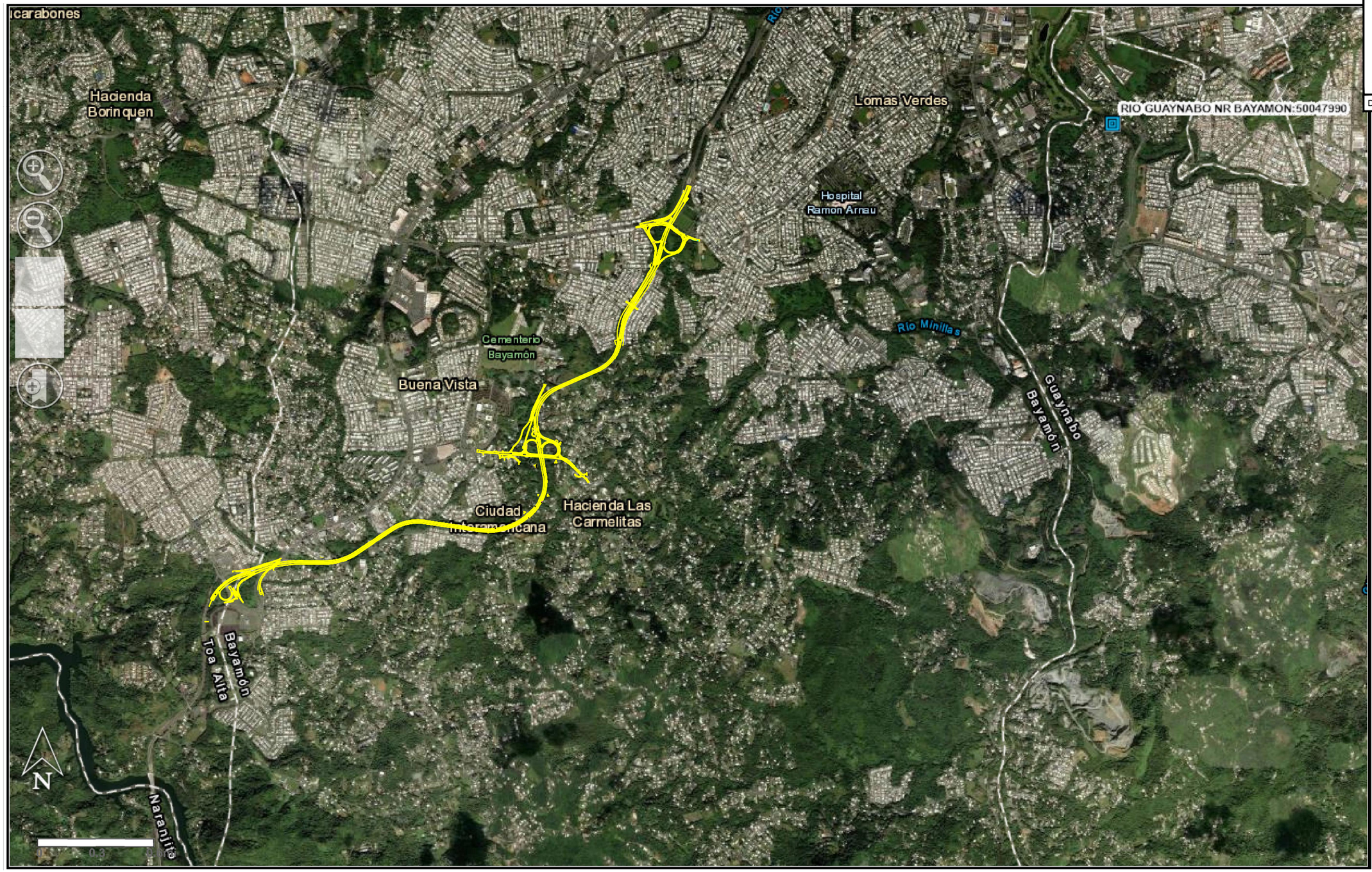
FIGURE STREAMS GAGING STATIONS



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SOURCE: PLANNING BOARD MIPR INTERACTIVE MAP USGS SURFACE WATER DATA

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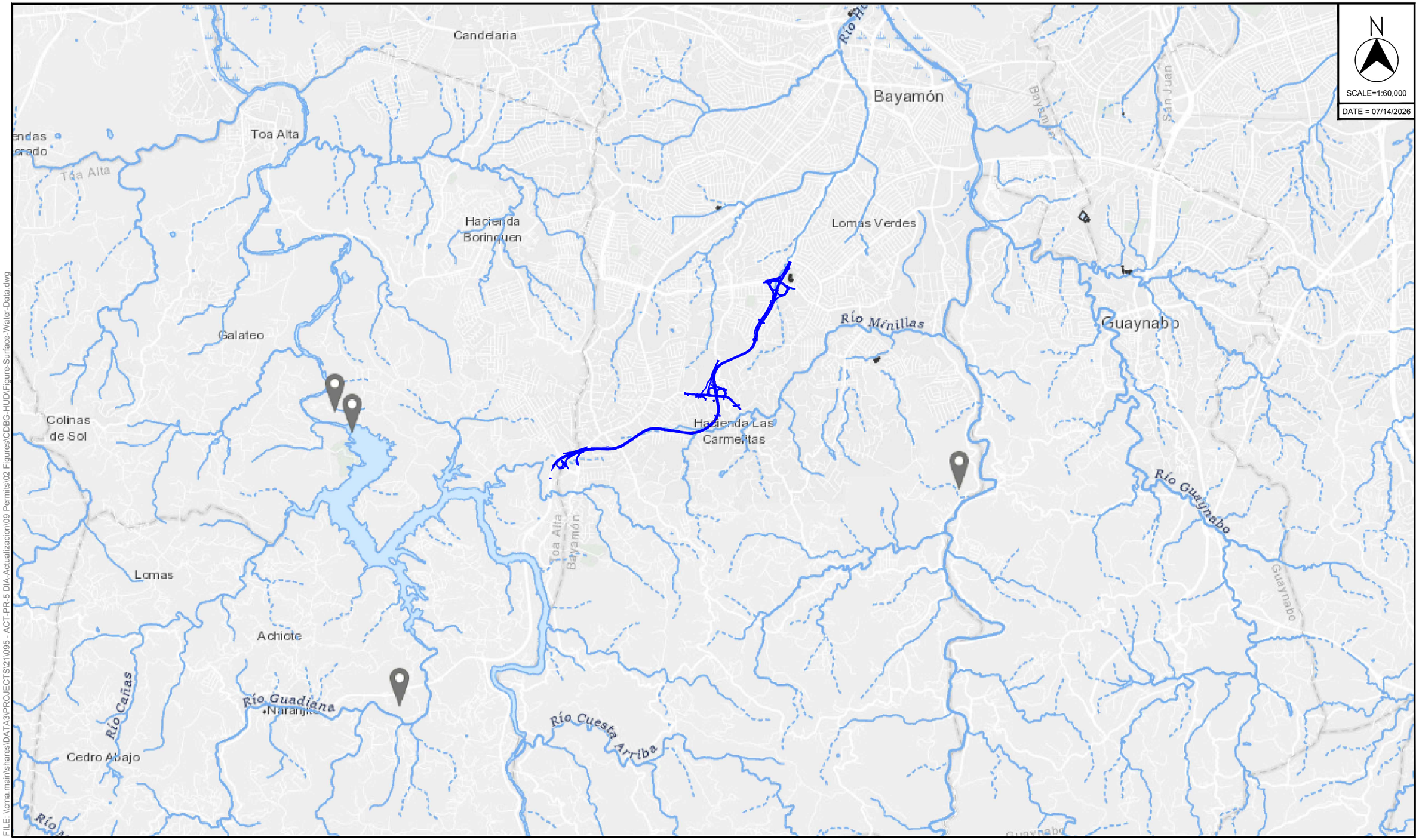
FIGURE SURFACE WATER DATA LOCATION



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SOURCE: USGS SURFACE WATER DATA

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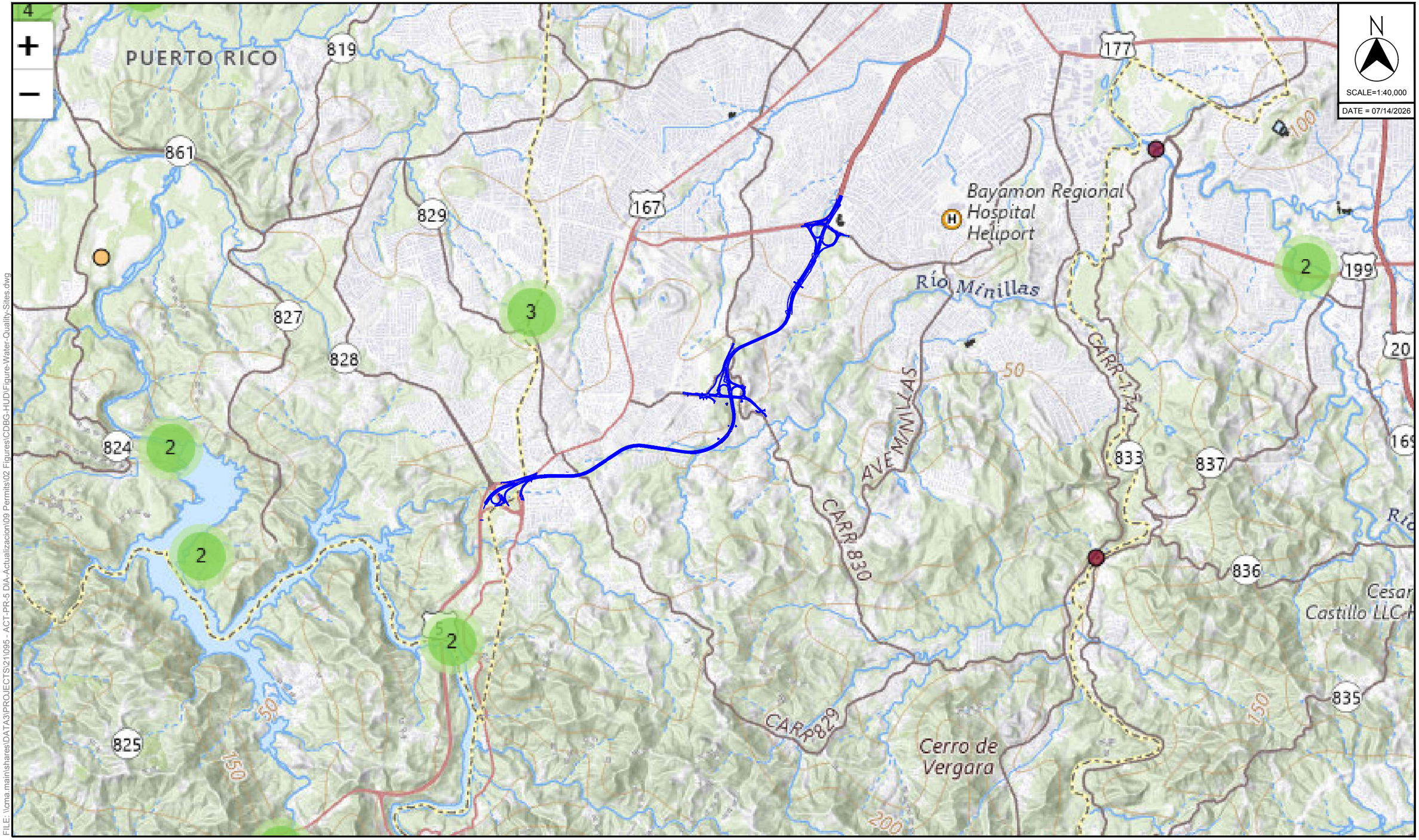
FIGURE SURFACE WATER DATA LOCATION



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SOURCE: WATER QUALITY PORTAL DATA SITES FOR USGS-PR

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FIGURE WATER QUALITY SITES