



Legend

 Project Boundary



67 MOUNTAIN BOULEVARD EXT
P.O. BOX 4039
WARREN, NEW JERSEY 07059
PHONE: (732) 560-9700

SITE LOCATION MAP
Passaic Valley Sewerage Commission
Flood Wall and On-Site Standby Power System
City of Newark, Essex County, New Jersey

Source:
Esri, ArcGIS Online, World Topo Map layer, 2013
STATE PLANE COORDINATES
E 595607
N 684505

Drawn By: JA

Scale: 1" = 3,000'

Project No. 04984.0010

Chk'd By: WJ

Date: 10/9/2013

Figure No. 1

Figure 11



Legend
 Project Boundary

Sources:
 1. Esri StreetMap USA, 2012.
 2. New Jersey 2012 High Resolution Orthophotography, NJ Office of Information Technology (NJ/OIT), Office of Geographic Information Systems (OGIS).

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PROJECT TITLE
 Passaic Valley Sewerage Commission
 Flood Wall and
 On-Site Standby Power System
 City of Newark
 Essex County, New Jersey

SHEET TITLE
 AERIAL IMAGERY MAP

PROJ. NO. 04984.0010
 DATE 10/9/2013
 DRN. BY JA
 CHK. BY WJ
 SCALE 1" = 400'

FIGURE NO. 2

Figure 12



Legend

 Project Boundary



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STREET MAP
Passaic Valley Sewerage Commission
Flood Wall and On-Site Standby Power System
City of Newark, Essex County, New Jersey

Drawn By: JA

Scale: 1" = 1,500'

Project No. 04984.0010

Chk'd By: WJ

Date: 10/9/2013

Figure No. 3

Source: Esri, ArcGIS Online, World Street Map, 2013.

Figure 13

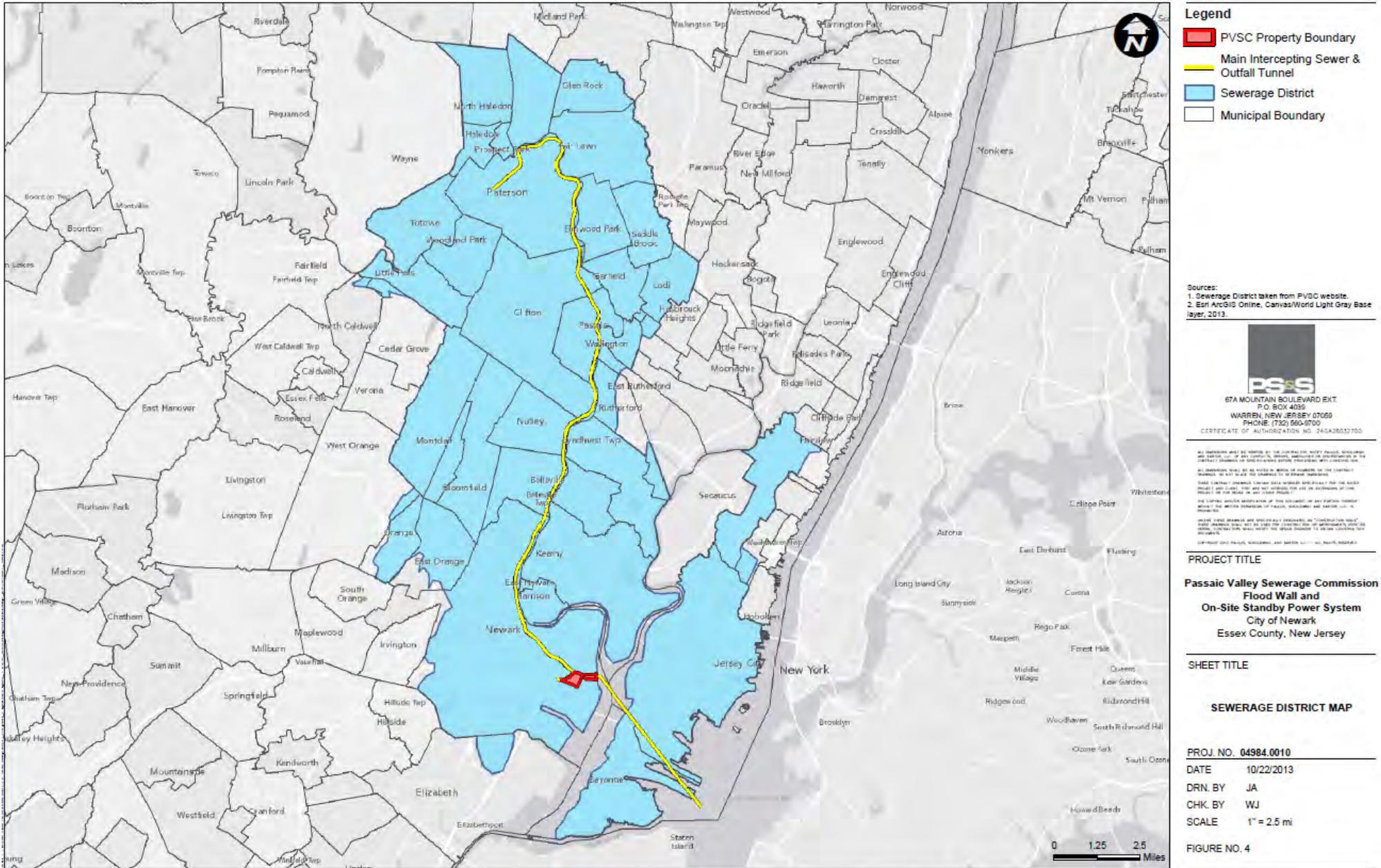
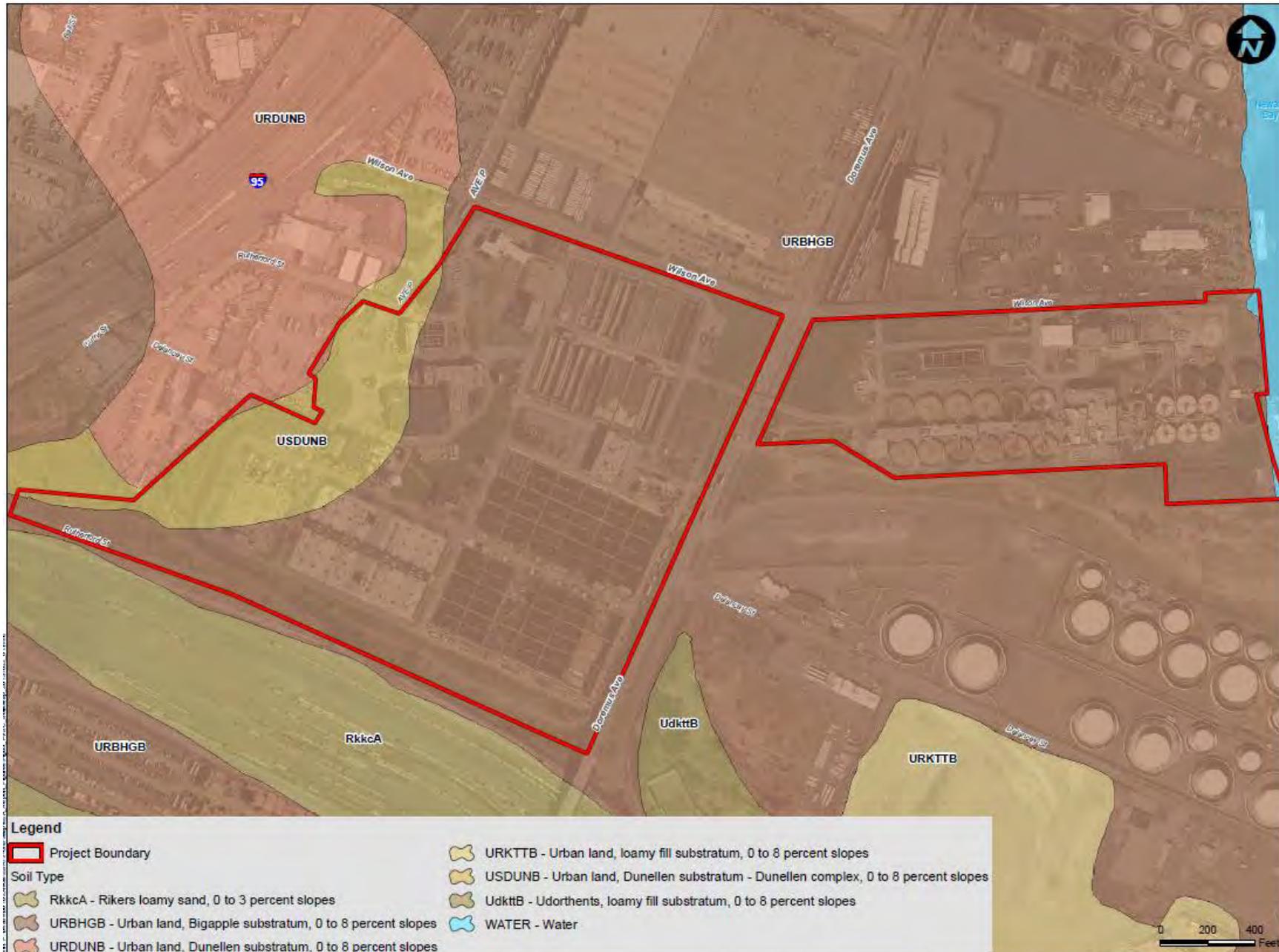


Figure 14



Legend

Project Boundary

Soil Type

RkkcA - Rikers loamy sand, 0 to 3 percent slopes	URKTTB - Urban land, loamy fill substratum, 0 to 8 percent slopes
URBHGB - Urban land, Bigapple substratum, 0 to 8 percent slopes	USDUNB - Urban land, Dunellen substratum - Dunellen complex, 0 to 8 percent slopes
URDUNB - Urban land, Dunellen substratum, 0 to 8 percent slopes	UdkttB - Udorthents, loamy fill substratum, 0 to 8 percent slopes
WATER - Water	

Sources:
 1. Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database for Sandy Hook-State Island, New Jersey.
 2. Earth StreetMap USA, 2012.
 3. New Jersey 2012 High Resolution Orthophotography, NJ Office of Information Technology (NJ/OIT), Office of Geographic Information Systems (OGIS).



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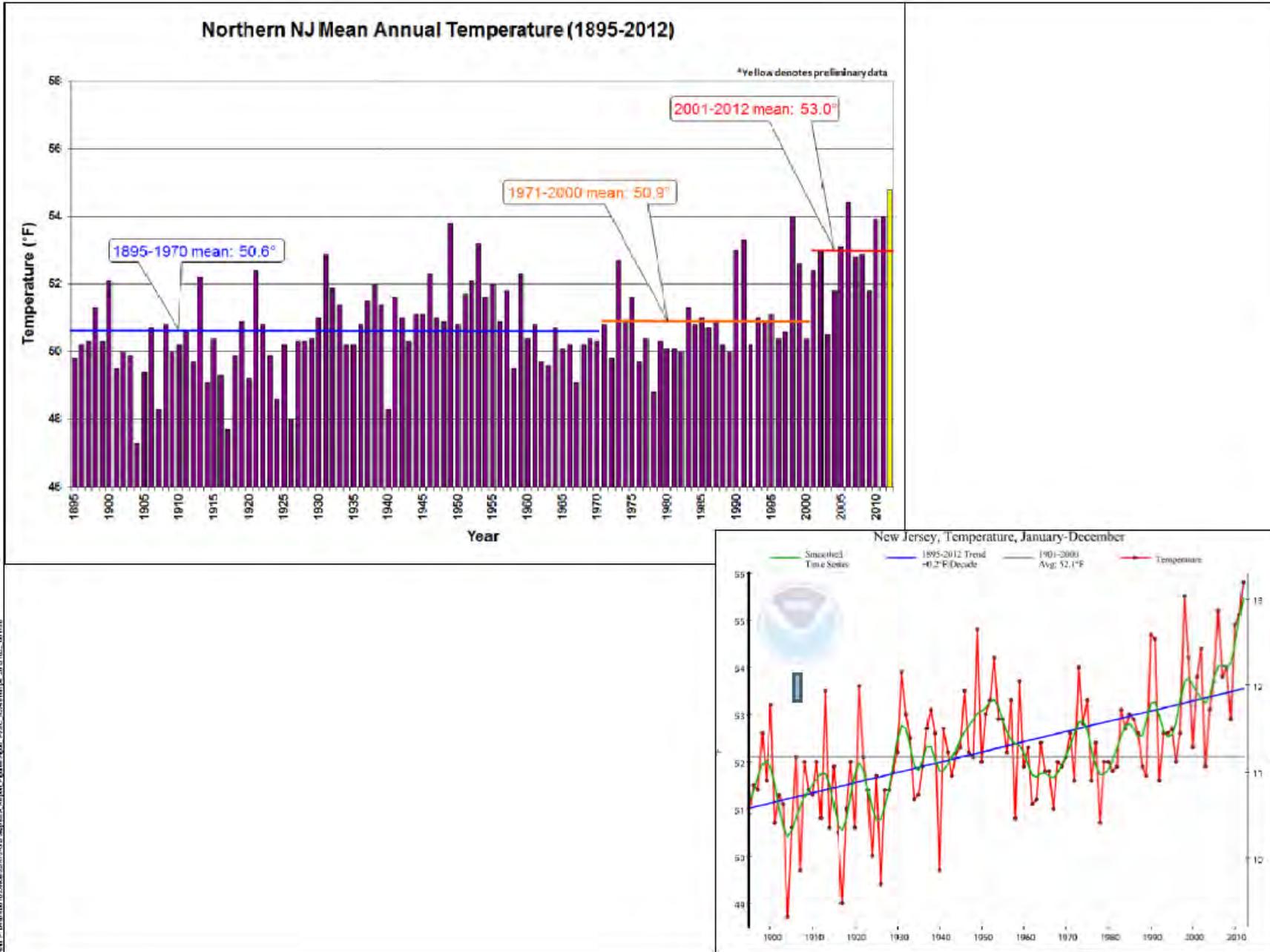
PROJECT TITLE
 Passaic Valley Sewerage Commission
 Flood Wall and
 On-Site Standby Power System
 City of Newark
 Essex County, New Jersey

SHEET TITLE
 SSURGO SOILS MAP

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE 1" = 400'

FIGURE NO. 5

Figure 15



Sources:
1. Climate data pulled by PG&E from the Office of the New Jersey State Climatologist and the National Oceanic and Atmospheric Administration National Climatic Data Center, 2013.



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Flood Wall and
On-Site Standby Power System
City of Newark
Essex County, New Jersey**

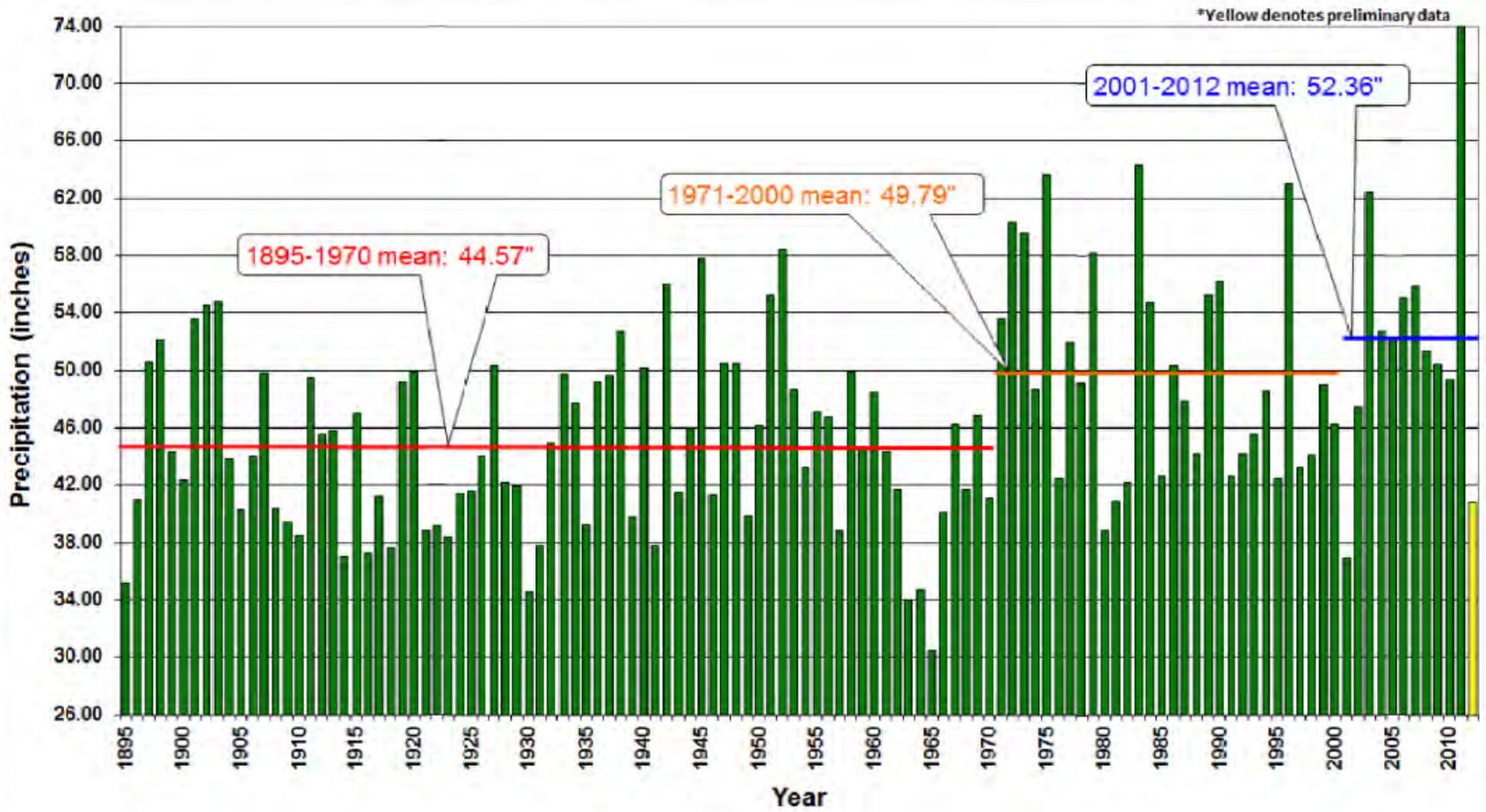
SHEET TITLE
**NORTHERN NEW JERSEY
MEAN ANNUAL TEMPERATURE
(1895-2012)**

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE N.T.S.

FIGURE NO. 6

Figure 16

Northern NJ Annual Precipitation (1895-2012)



Sources:
1. Precipitation data pulled by P&S from the Office of the New Jersey State Climatologist, 2013.



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City of Newark
Essex County, New Jersey

SHEET TITLE
NORTHERN NEW JERSEY
ANNUAL PRECIPITATION
(1895-2012)

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE N.T.S.

FIGURE NO. 7

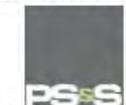
Figure 17



- Legend**
- Project Boundary
 - ~ Watercourse
 - Riparian Zone (50 ft.)

Notes:
 1. Estimated riparian zones as defined at N.J.A.C. 7:13-4.1 based upon most current data published in NJDEP Surface Water Quality Standards of New Jersey (Version 201012). Limits of these regulated areas are subject to change depending upon current field conditions. Verification pursuant to NJAC 7:13-6.1 is required.

Sources:
 1. Streams and Riparian Zone calculations from NJDEP Surface Water Quality Standards of New Jersey (Version 201012)
 2. Esri Streets/Map USA, 2012.
 3. New Jersey 2012 High Resolution Orthophotography, NJ Office of Information Technology (NJ/OIT), Office of Geographic Information Systems (OGIS).



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PROJECT TITLE
 Passaic Valley Sewerage Commission
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 City of Newark
 Essex County, New Jersey

SHEET TITLE
 SURFACE WATERS AND
 RIPARIAN ZONES MAP

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE 1" = 400'

FIGURE NO. 8

Figure 18



Legend

- Project Boundary
- Wetland
- State Open Waters
- Head of Tide
- Swale/Ditch

Sources:

1. Wetlands delineation performed by P&S, June 2013.
2. Earth StreetMap USA, 2012.
4. New Jersey 2012 High Resolution Orthophotography, NJ Office of Information Technology (NJ/OIT), Office of Geographic Information Systems (OGIS).

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 City of Newark
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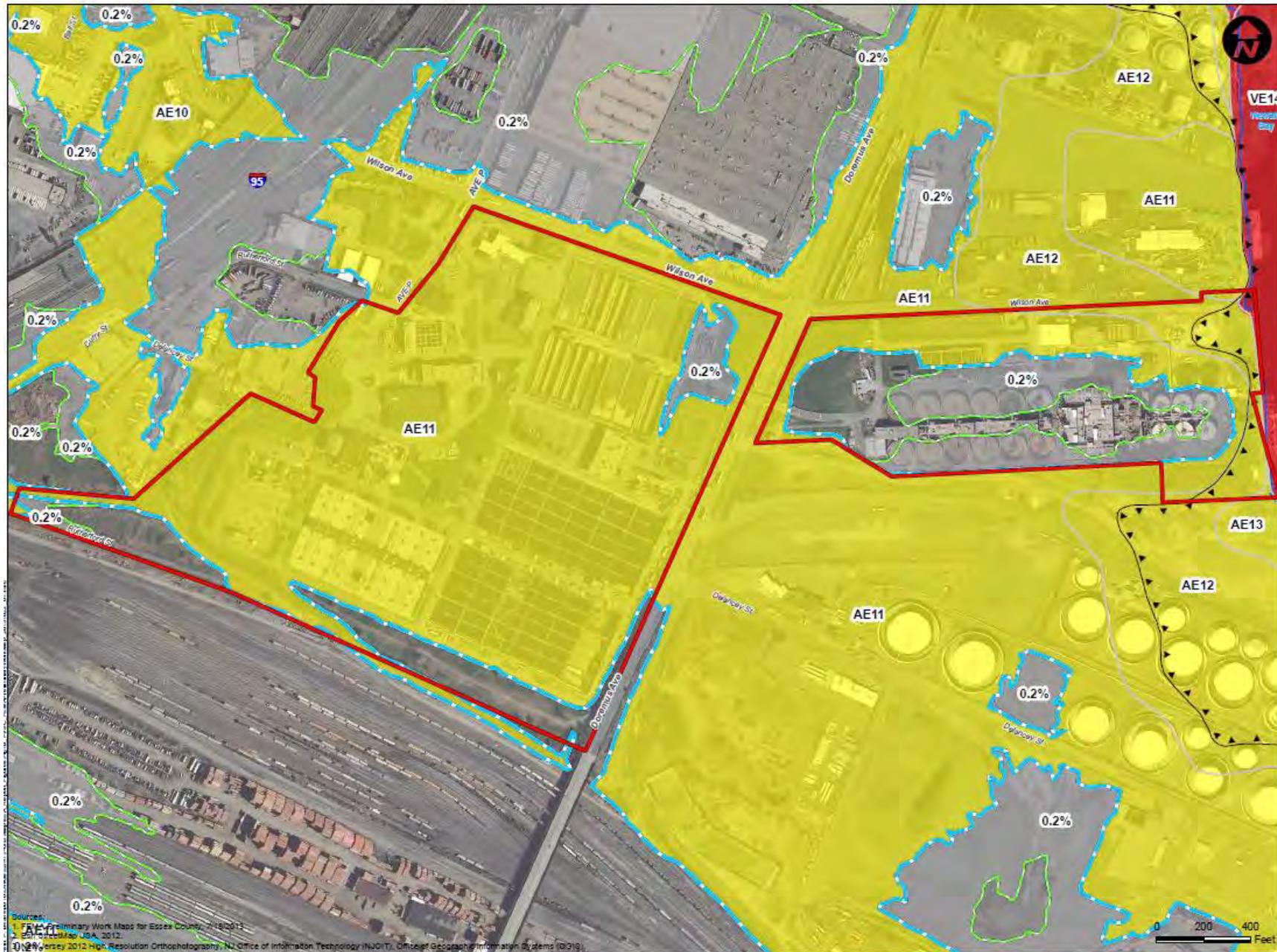
SHEET TITLE

**WETLANDS DELINEATION AND
 STATE OPEN WATERS MAP**

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE 1" = 400'

FIGURE NO. 9

Figure 19



Legend

- Project Boundary
- Limit of Moderate Wave Action
- Floodplain Boundaries**
 - 0.2 Pct Annual Chance Flood Hazard
 - 1 Pct Annual Chance Flood Hazard
- Floodway
- Gutters
- Coastal Shoreline
- Floodplain Areas**
 - A
 - AE
 - AO
 - VE
 - Shaded X


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 City of Newark
 Essex County, New Jersey

SHEET TITLE
 FEMA
 PRELIMINARY WORK MAP

PROJ. NO. 04984.0010
 DATE 10/22/2013
 DRN. BY JA
 CHK. BY WJ
 SCALE 1" = 400'

FIGURE NO. 10

Sources:
 1. FEMA Preliminary Work Maps for Essex County, 7/18/2013
 2. FEMA Flood Map, USA, 2012
 3. Jersey 2012 High Resolution Orthophotography, NJ Office of Information Technology (NJ OIT), Office of Geographic Information Systems (OGIS)

Figure 20



Legend

- Project Boundary
- Species-Based Habitats**
- Rank 1 - Habitat specific requirements
- Rank 3 - State Threatened

Notes:

1. Rank 1 is assigned to patches that meet habitat-specific suitability requirements but do not intersect with any confirmed occurrences of such species.
2. Rank 3 is assigned to patches containing occurrences of State threatened species.

Sources:

1. NJDEP Division of Fish & Wildlife, Endangered Nongame Species Program, NJDEP Landscape Version 3.1, 02/2012.
2. Esri StreetMap USA, 2012.
3. New Jersey 2012 High Resolution Orthophotography, NJ Office of Information Technology (NJ/OIT), Office of Geographic Information Systems (OGIS).

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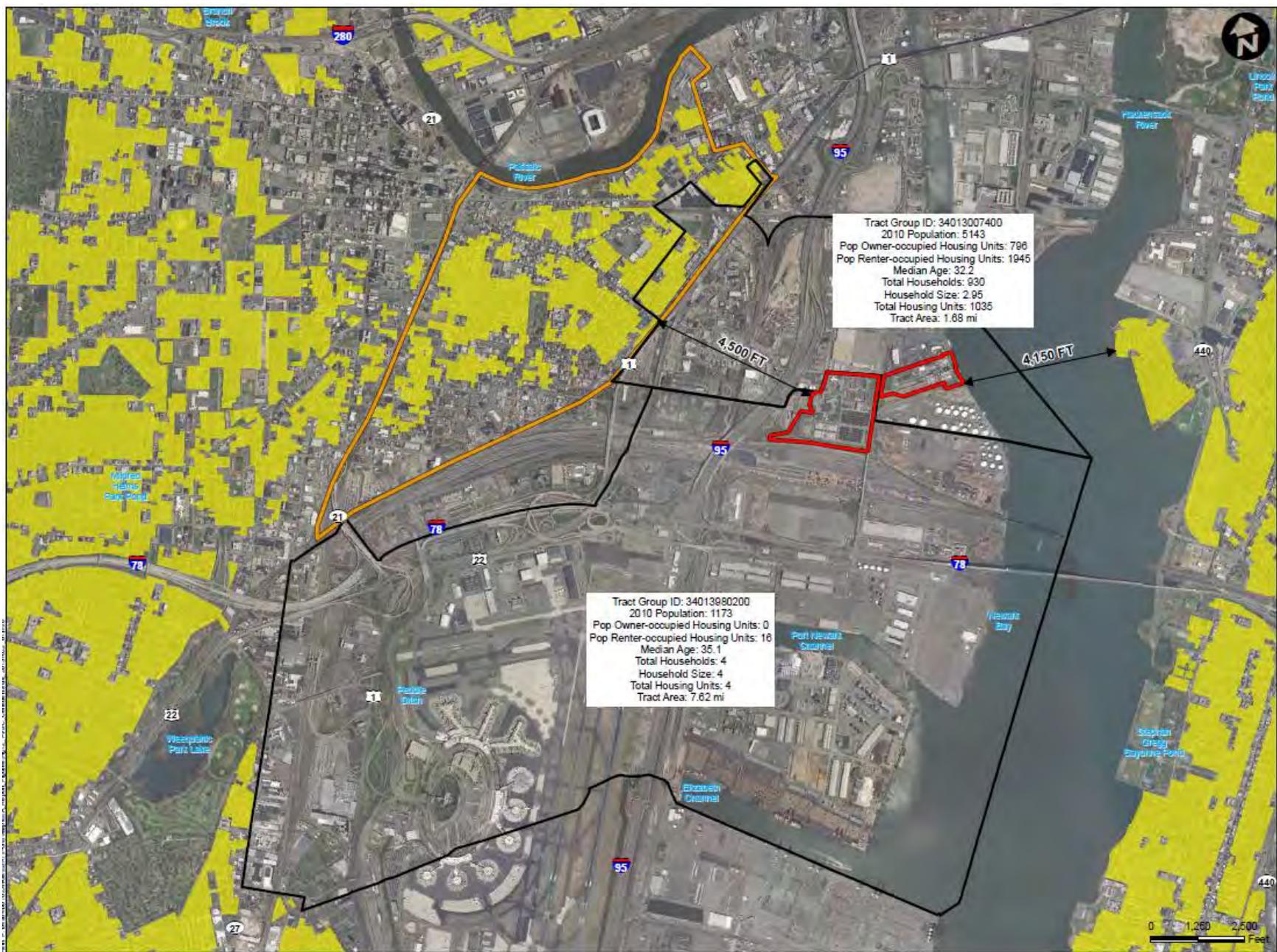
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 Flood Wall and
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 City of Newark
 Essex County, New Jersey

SHEET TITLE
 LANDSCAPE PROJECT MAP

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE 1" = 400'

FIGURE NO. 11

Figure 21



Tract Group ID: 34013007400
 2010 Population: 5143
 Pop Owner-occupied Housing Units: 796
 Pop Renter-occupied Housing Units: 1945
 Median Age: 32.2
 Total Households: 930
 Household Size: 2.95
 Total Housing Units: 1035
 Tract Area: 1.68 mi

Tract Group ID: 34013980200
 2010 Population: 1173
 Pop Owner-occupied Housing Units: 0
 Pop Renter-occupied Housing Units: 16
 Median Age: 35.1
 Total Households: 4
 Household Size: 4
 Total Housing Units: 4
 Tract Area: 7.62 mi

Legend

- Project Boundary
- Census Tract Boundary
- Ironbound District
- Residential Land Use

Sources:
 1. Tract Boundaries from 2010 US Census.
 1. Esri StreetMap USA, 2012.
 2. New Jersey 2012 High Resolution Orthophotography, NJ Office of Information Technology (NJ/OIT), Office of Geographic Information Systems (OGIS).



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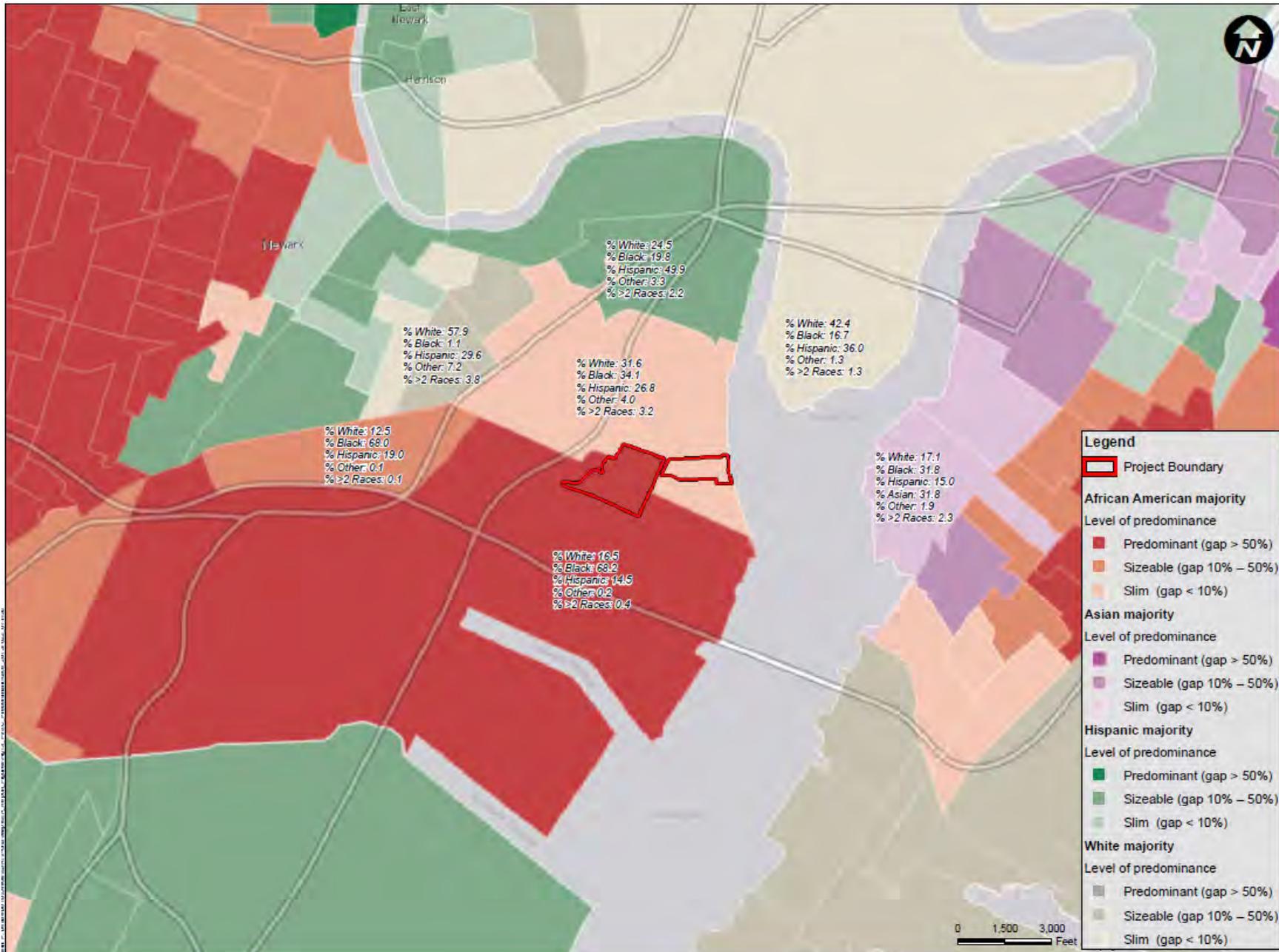
PROJECT TITLE
 Passaic Valley Sewerage Commission
 Flood Wall and
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 City of Newark
 Essex County, New Jersey

SHEET TITLE
 CENSUS TRACT ANALYSIS MAP

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE 1" = 2,500'

FIGURE NO. 12

Figure 22



Note:
The population of some areas in the U.S.A. is dominated heavily by one racial or ethnic group. These areas stand out on this map. In other areas, one group may be the majority, but the population is much more evenly balanced. Still other areas have one group claiming a plurality, but not a majority. In each neighborhood, county and state, this map shows which race or ethnicity is predominant, and by how much. This map uses map colors to identify the predominant racial or ethnic group in specific areas, by county and tract. The strength of the color indicates the extent to which one group is dominant over the next most populous.

Sources:
1. Esri ArcGIS Online, Predominant Populations in the USA layer, 2012.
2. Esri ArcGIS Online, Canvas/World Light Gray Base layer, 2013.



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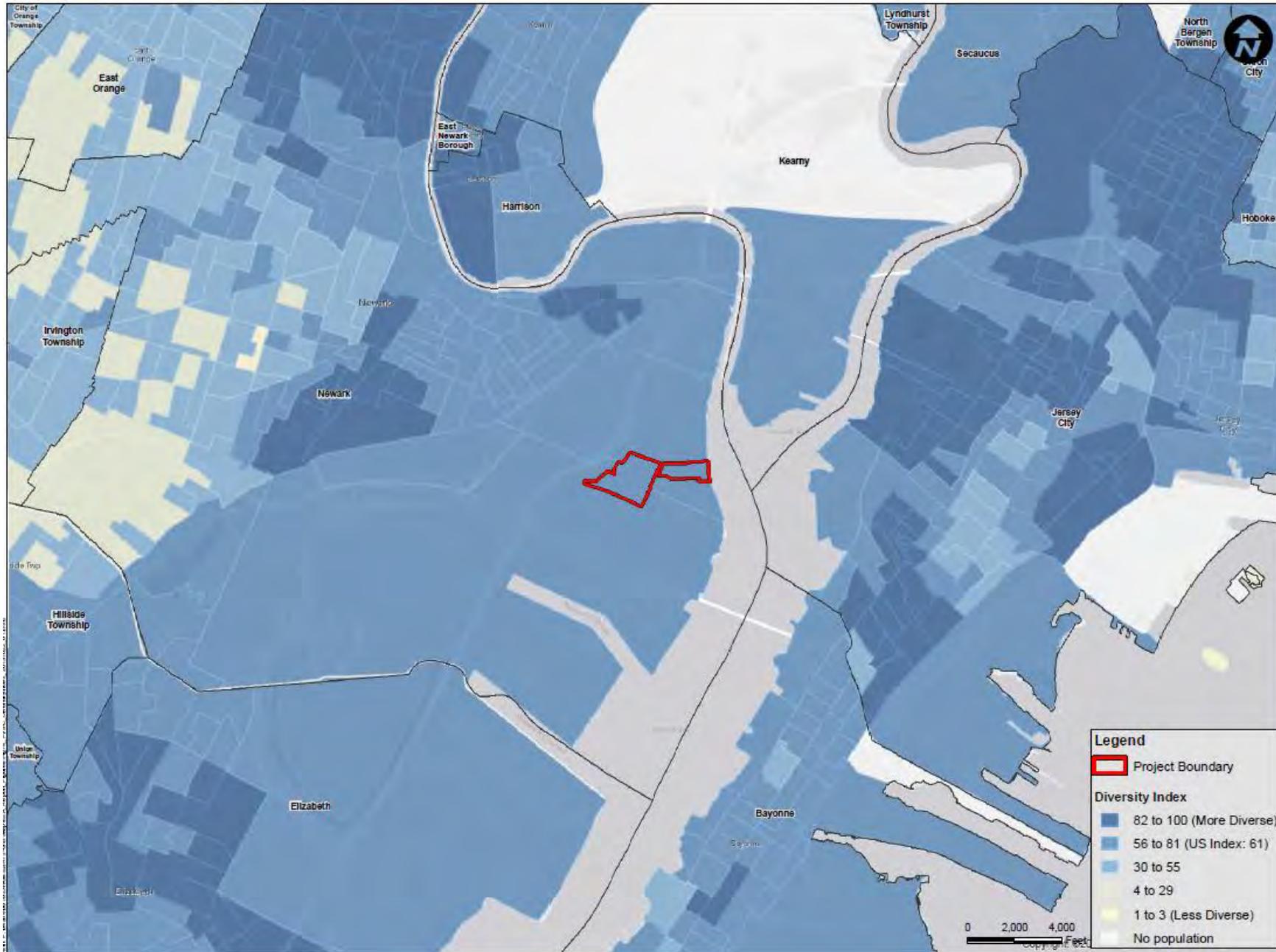
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**Passaic Valley Sewerage Commission
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City of Newark
Essex County, New Jersey

SHEET TITLE
**PREDOMINANT RACE
POPULATIONS MAP**

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE 1" = 3,000'
FIGURE NO. 13

Figure 23



Note:
This map service summarizes racial and ethnic diversity in the United States in 2012. The Diversity Index shows the likelihood that two persons chosen at random from the same area, being of different race or ethnic groups. The index ranges from 0 (no diversity) to 100 (complete diversity). Diversity in the U.S. population is increasing. The diversity score for the entire United States in 2012 is 61.

- Sources:
1. Esri ArcGIS Online, USA Diversity Index (Extended Support) layer, 2012.
2. Esri ArcGIS Online, Canvas/World Light Gray Base layer, 2013.



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PROJECT TITLE
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Flood Wall and
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City of Newark
Essex County, New Jersey**

SHEET TITLE
DIVERSITY INDEX MAP

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE 1" = 4,000'
FIGURE NO. 14

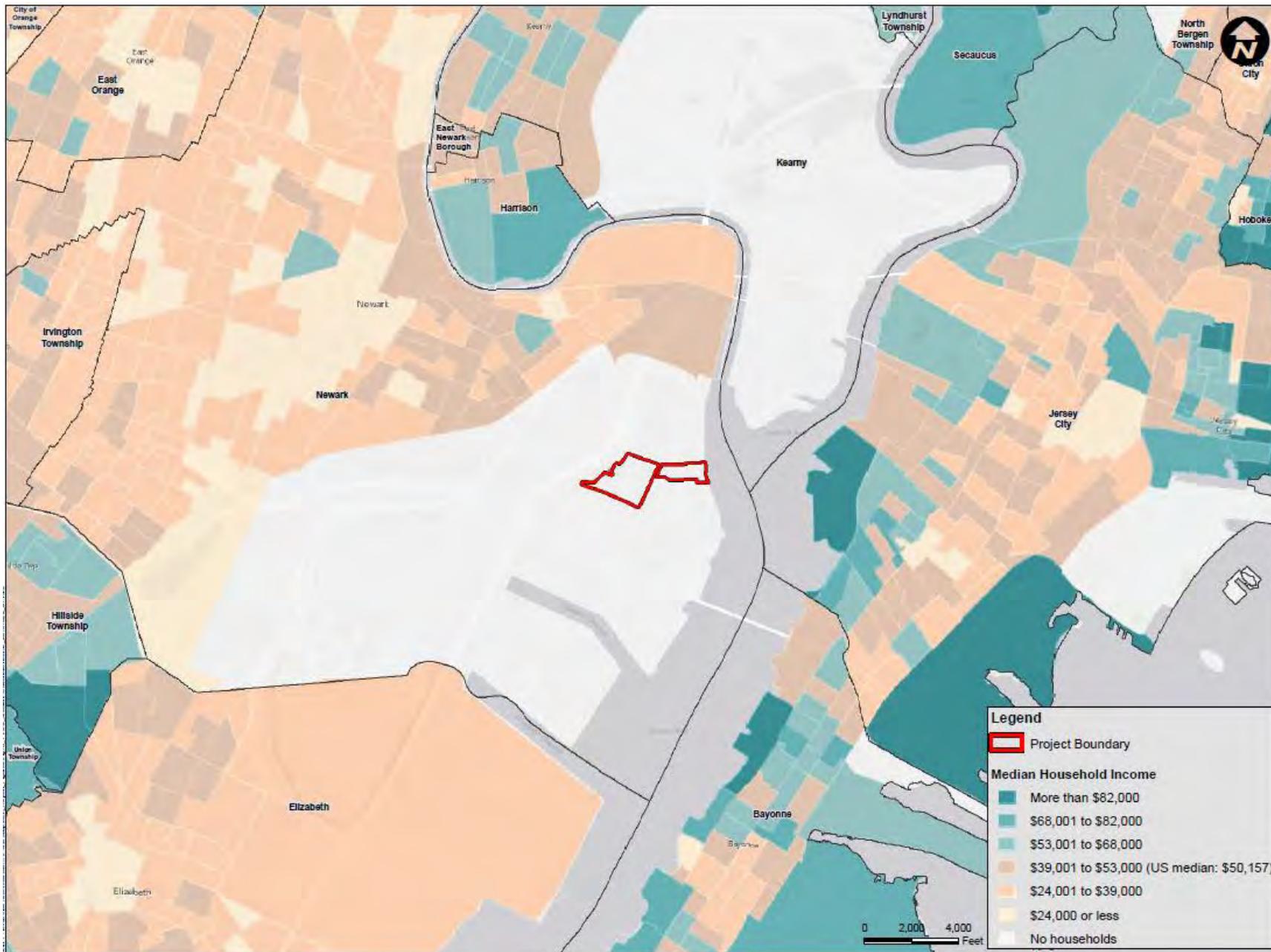
Legend

- Project Boundary

Diversity Index

- 82 to 100 (More Diverse)
- 56 to 81 (US Index: 61)
- 30 to 55
- 4 to 29
- 1 to 3 (Less Diverse)
- No population

Figure 24



Note:
 This map shows the median household income in the United States in 2012. Information for the 2012 Median Household Income is an estimate of income for calendar year 2012. Income amounts are expressed in current dollars, including an adjustment for inflation or cost-of-living increases. The median is the value that divides the distribution of household income into two equal parts. The median household income in the United States overall was \$50,157 in 2012. This map shows Esri's 2012 estimates using Census 2010 geographies.

Sources:
 1. Esri ArcGIS Online, USA Median Household Income (Extended Support) layer, 2012.
 2. Esri ArcGIS Online, Canvas/World Light Gray Base layer, 2013.



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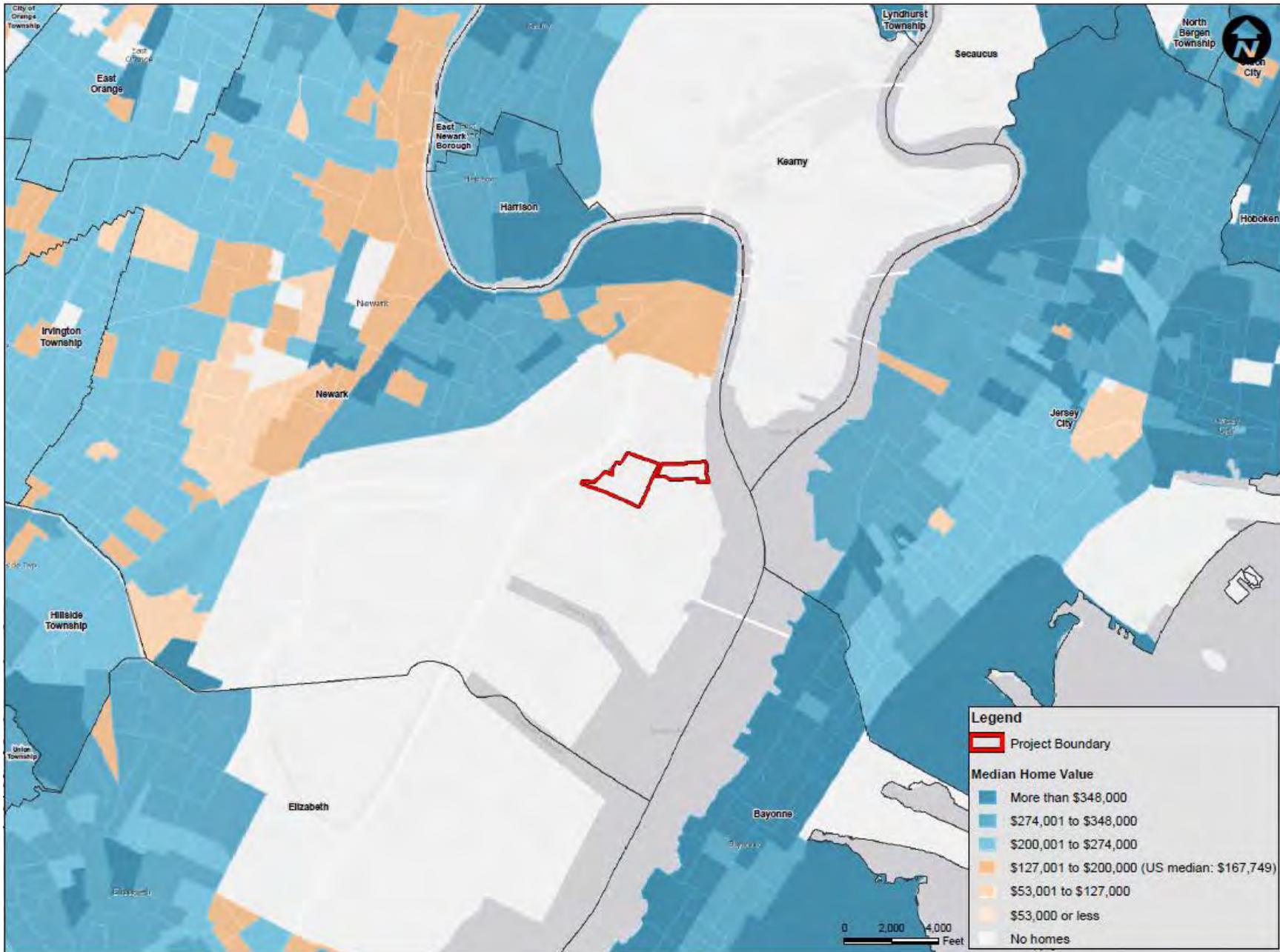
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SHEET TITLE
 MEDIAN HOUSEHOLD INCOME MAP

PROJ. NO. 04984.0010
 DATE 10/22/2013
 DRN BY JA
 CHK BY WJ
 SCALE 1" = 4,000'
 FIGURE NO. 15

Figure 25



Note:
This map service shows the median home value in the United States in 2012. The 2012 median home value is an estimate of home value based on total owner occupied units. The median home value for the entire U.S. was \$167,749 in 2012. This map shows Esri's 2012 estimates using Census 2010 geographies.

Sources:
1. Esri ArcGIS Online, USA Median Home Value (Extended Support) layer, 2012
2. Esri ArcGIS Online, Canvas/World Light Gray Base layer, 2013.



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City of Newark
Essex County, New Jersey**

SHEET TITLE

MEDIAN HOME VALUE MAP

PROJ. NO. 04984.0010

DATE 10/22/2013

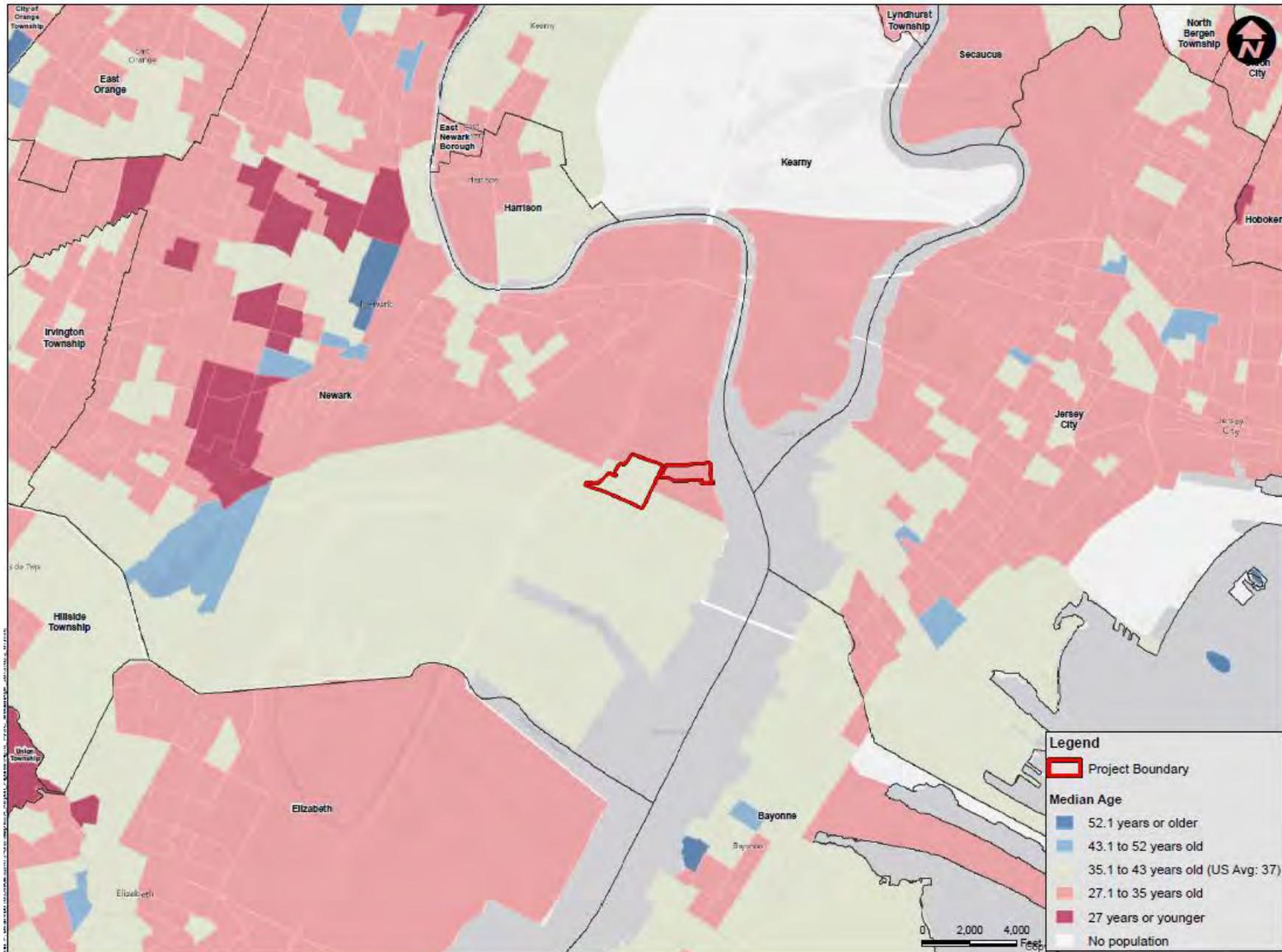
DRN. BY JA

CHK. BY WJ

SCALE 1" = 4,000'

FIGURE NO. 16

Figure 27



Note:
This map service shows the median age of people in the United States in 2012. The Median Age for the U.S. is 37 years of age.

Sources:
1. Esri ArcGIS Online, USA Median Age (Extended Support) layer, 2013.
2. Esri ArcGIS Online, Canvas/World Light Gray Base layer, 2013.



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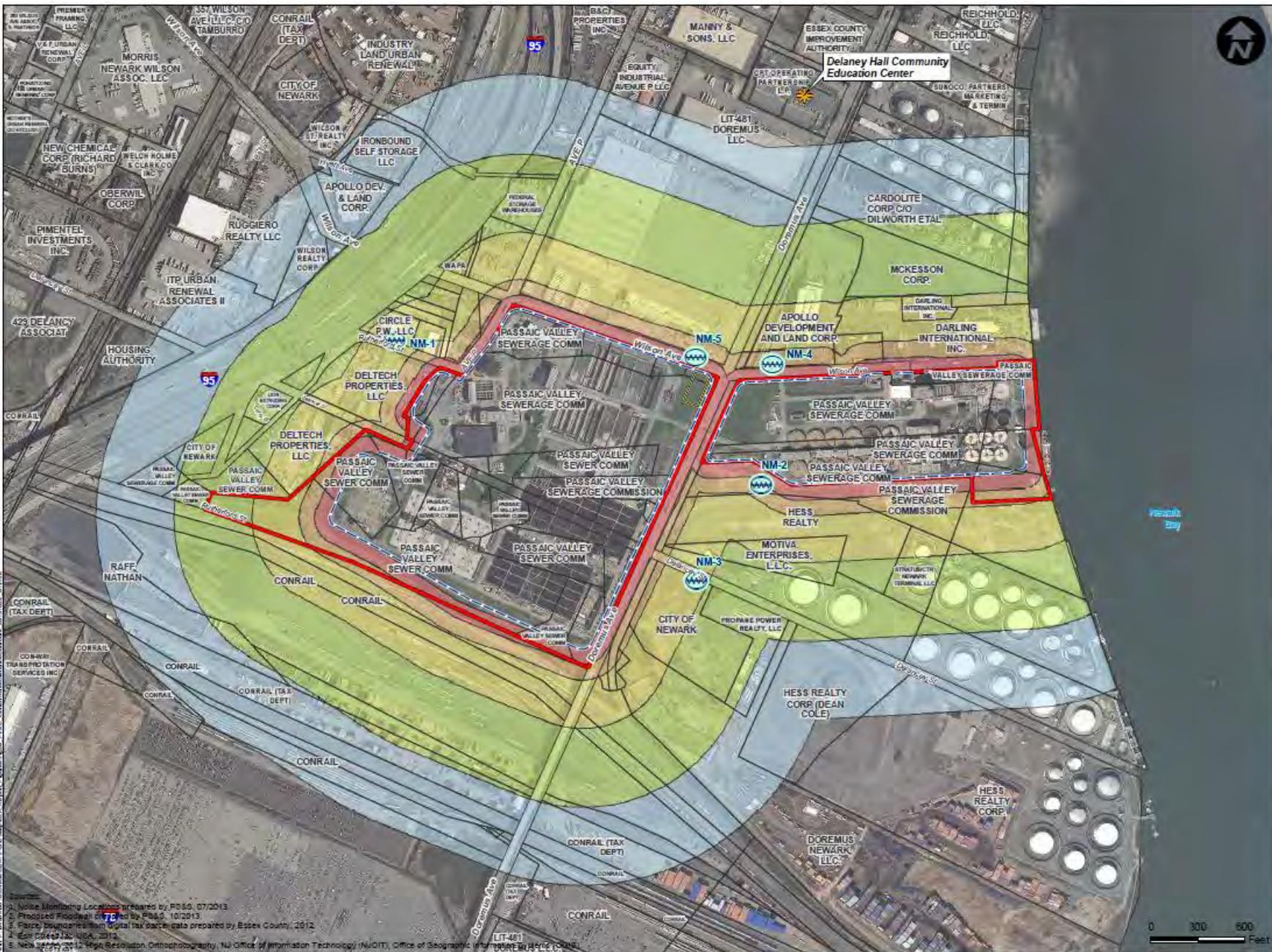
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Flood Wall and
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City of Newark
Essex County, New Jersey

SHEET TITLE

MEDIAN AGE MAP

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY WJ
SCALE 1" = 4,000'
FIGURE NO. 18

Figure 29



Legend

- Project Boundary
- Proposed Floodwall
- Proposed Standby Power System
- Noise Monitoring Location
- Parcel Boundary

Distance Contours from Floodwall

- 100'
- 200'
- 500'
- 1,000'
- 1,500'

PS&S

87A MOUNTAIN BOULEVARD EXT.
P.O. BOX 4039
WARREN, NEW JERSEY 07069
PHONE: (732) 566-9700
CERTIFICATE OF AUTHORIZATION NO. 545A28032700

ALL INFORMATION AND SERVICES BY THE CONTRACTOR SHALL BE PROVIDED TO THE CLIENT AND THE CLIENT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE CLIENT. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE CLIENT. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE CLIENT.

PROJECT TITLE

**Passaic Valley Sewerage Commission
Flood Wall and
On-Site Standby Power System
City of Newark
Essex County, New Jersey**

SHEET TITLE

**CONSTRUCTION NOISE
DISTANCE CONTOURS MAP**

PROJ. NO. 04984.0010
DATE 10/22/2013
DRN. BY JA
CHK. BY SC
SCALE 1" = 800'

FIGURE NO. 20

1. Noise Monitoring Locations prepared by PS&S, 07/2013
 2. Proposed Floodwall prepared by PS&S, 10/2013
 3. Parcel boundaries from digital tax parcel data prepared by Essex County, 2012
 4. Esri, 2012
 5. New Jersey 2012 High Resolution Orthophotography, NJ Office of Information Technology (NJ OIT), Office of Geographic Information Systems (OGIS)

