ENVIRONMENTAL IMPACT STATEMENT

for

PAWS AND ANCHOR

Located at

BLOCK 1105; LOT 5

In

NEPTUNE TOWNSHIP
MONMOUTH COUNTY, NJ

Has been prepared for

KIENWOLF PACK, LLC

710 BEACH AVENUE
BRADLEY BEACH, NJ 07720

On

October 31, 2022

InSite Project No. 22-1905-01

Jason L. Fichter, PE, PP
NJPE 43118 – NJPP 5726

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Licensed in NJ, PA, DE, NY, CT, NC, DC, & CO

TABLE OF CONTENTS

INTRODUCTION

This report is being submitted as part of the development application for Paws and Anchor, located on Block 1105; Lot 5, as shown on Sheet 11 of the Official Tax Map of Township of Neptune, Monmouth County, New Jersey. This Impact Statement has been prepared in accordance with the requirements of Ordinance No. 04-23 and Section 811.01 of the Township's Code, entitled Environmental Impact Statement. This report provides statements regarding the environmental aspects of the project and the anticipated impacts as a result of the development.

PROJECT LOCATION

The property is zoned within the C-6 Route 33E Commercial Zone and Hospital Support Overlay where pet store, pet supplies, and pet grooming services is a permitted use. The site has a frontage on Corlies Avenue (NJ Route 33) going west bound. The surrounding area consists primarily of commercial uses, single family residential and Jersey Shore Medical Center. Location maps are enclosed within the Appendix of this report for reference.

PROJECT DESCRIPTION

The property has a frontage along Corlies Avenue. Lot 5 is 0.333 acres with a one-story frame dwelling with a gravel driveway and other minor site features. The development proposes to keep the existing structure and propose a second two-story structure in the rear. Additional site improvements include but are not limited to constructing a parking lot, utility improvements, lighting, and landscaping.

INVENTORY AND ASSESSMENT

SOILS

The existing soil classifications for the site are based on the USDA NRCS Web Soil Survey. The survey is useful at the planning level to draw general conclusions about the suitability of a site for certain land uses. Based on the NRCS data, the site consists of the following soil type:

SOIL NAME	HYDROLOGIC GROUP
KkhB – Klej loamy sand-urban land complex, 0-5% slopes	A/D

Please refer to Appendix A for the Soil Survey Map.

TOPOGRAPHY

The existing site slopes generally from the middle of the property (elevation +21.50) to the rear property line (elevation +21.00) and to the street (elevation +20.00).

Proposed slopes will not exceed a maximum 3H:1V rate and any such areas will be stabilized in accordance with Soil Erosion and Sediment Control Standards.

GEOLOGY

According to NJDEP's GeoWeb, the bedrock geology for the subject site is within the Lower Member Kirkwood Formation and is composed of quartz, sand, and clay.

GROUNDWATER HYDROLOGY

The existing depth to groundwater for the site is based on the USDA NRCS Web Soil Survey. The survey is useful at the planning level to draw general conclusions about the suitability of a site for certain land uses. Based on the NRCS data, the depth to ground water is approximately 46 centimeters or 18 inches below ground surface.

SURFACE WATER

No surface water exists on the subject property.

WATERSHED

The site is located within the Whale Pond / Shark River / Wreck Pond HUC11 watershed and is part of the Deal Lake HUC14 sub-watershed.

VEGETATION AND WILDLIFE

The subject site is currently developed with minimal vegetation. The surrounding area consists primarily of commercial uses, single family homes and hospital campus, which are not

conducive to wildlife. No known threatened or endangered wildlife appear to inhabit the property or area.

LAND USE

The property is zoned within the C-6 Zone, which is described as moderate dense commercial. The purpose of the C-6 Zone is to provide commercial uses for the nearby single-family residential development. The site is currently developed with a frame dwelling. The plans propose a second building which is a permitted use and complies.

AIR QUALITY

There are no predicted adverse impacts associated with air quality with this project. The proposed development will not require any air permits from the New Jersey Department of Environmental Protection. During construction, all vehicles will comply with state regulations to keep emissions within acceptable limits. The contractor will provide dust control throughout the parking lot and construction site to minimize airborne particles. After construction, conditions will return to typical levels.

WATER QUALITY

The proposed use of the property will have no adverse impact on the water quality in the surrounding area.

AMBIENT NOISE LEVEL

During the construction phases of this project the surrounding area may experience elevated ambient noise levels due to the operation of heavy-duty construction equipment. As required pursuant to the Municipal Land Use Ordinance all contractors/construction will comply with New Jersey Department of Environmental Protection standards set forth at N.J.A.C. 7:29-1.1 et. seq.

Upon completion of construction, ambient noise is expected to return to normal levels. No adverse impacts to neighbors are anticipated due to noise. Implementation of the proposed landscaping improvements will aid in reducing noise levels as well.

AESTHETIC FEATURES

The existing site contains an existing frame dwelling with gravel parking lot. The surrounding areas are developed, so a commercial development would be consistent with surrounding lots. Landscaping and lighting are proposed to provide aesthetic features to the site.

TREE REMOVAL

The existing site is covered with a few trees, therefore a Tree Removal Application has been prepared as part of this application. In accordance with the Township's Tree Removal Ordinance Section 525.D.5.G.i. Refer to plan sheets C300 Site Layout Plan and C600 Landscape Plan for compliance.

WASTEWATER MANAGEMENT

An existing main is located within Corlies Avenue. The current site is developed and has existing onsite sanitary connection. A sewer lateral will be extended into the property to service the proposed structure, separate from the existing building. Based on the development scope, the project will require a NJDEP Treatment Works Approval (TWA) for the main extension. The applicant will forward all necessary permits upon TWA approval.

According to NJDEP's GeoWeb, the site is within the sewer service area of Neptune Township Sewerage Authority and Sewer Treatment Plant (NJPDES 0024872). The treatment plant has a permitted flow of 8.5 MGD and has a planning flow of 5.1 MGD, therefore the treatment plant should have capacity to service the project.

WATER SUPPLY

An existing main is located within Corlies Avenue. The current site is developed has existing onsite water connection.

According to NJDEP's GeoWeb, the site is in the service area of New Jersey American Water Company – Coastal North, PWID NJ1345001. The water supply firm capacity is 79.6 MGD and

the current peak is 71.0 MGD, with an 8.6 MPG surplus. The water company should have capacity to service the project.

SURFACE DRAINAGE, STORMWATER MANAGEMENT, AND FLOOD HAZARD

Under existing conditions, the property slopes from the center of the property to the rear property line and to the front property line, into the stormwater system within Corlies Avenue.

The drainage pattern of the site will remain similar to the existing conditions by directing onsite runoff to the Corlies Avenue right of way and the rear yard portion continues to flow offsite. The project is not considered major development for stormwater purposes since it does not propose to disturb more than one acre, or create one- quarter acre or more of impervious surfaces.

According to FEMA's current Effective FIRM entitled, "Flood Insurance Rate Map (FIRM)", Community Panel #34025C0334G, dated 06/15/22, the site is not within a flood hazard area. The FEMA maps and the record survey reference the NAVD88 vertical datum.

SOLID WASTE DISPOSAL

Waste collection for the proposed commercial development shall be through the Township.

AIR QUALITY

The proposed use of the property will have no adverse impact on the air quality in the surrounding area.

NOISE

During the construction phases of this project the surrounding area may experience elevated ambient noise levels due to the operation of heavy-duty construction equipment. As required pursuant to the Municipal Land Use Ordinance all contractors/construction will comply with New Jersey Department of Environmental Protection standards set forth at N.J.A.C. 7:29-1.1 et. seq.

Upon completion of construction, ambient noise is expected to return to normal levels. No adverse impacts to neighbors are anticipated due to noise. Implementation of the proposed landscaping improvements will aid in reducing noise levels as well.

TRAFFIC

There are no adverse impacts on the environment from the traffic generation of the proposed development.

COMMUNITY IMPACT

The proposed commercial development is well suited for the existing property and is consistent with the neighboring uses.

VISUAL IMPACT

The nature of the proposed site layout, architectural design and the landscape design of the overall site will help provide an acceptable level of aesthetic appearance consistent with the surrounding area. The property is landscaped with trees and shrubs and proposes decorative street lighting in accordance with the ordinance. These measures provide an aesthetically pleasing streetscape.

HISTORIC LANDMARKS

According to NJDEP's GeoWeb, the site is not located on a historic property.

LIGHTING

There are no adverse impacts on the environment from the lighting of the proposed development.

WETLANDS

There are no wetlands on the subject property.

WATERCOURSES / WATERFRONT / SHORELINE FEATURES

There are no water features located on site.

ENERGY CONSERVATION

New construction will conform to the latest building codes and current energy efficient standards.

ENVIRONMENTAL PROTECTIVE MEASURES

A soil erosion and sediment control plan will be implemented to show the limit of disturbance with a protective silt fence. An application will be filed to the Soil Conservation District for the plan to be certified.

In accordance with the Soil Erosion and Sediment Control Act, soil erosion measures will be incorporated into the design and graphically depicted on the Soil Erosion and Sediment Control Plans. These measures consist of, but are not limited to:

- Sediment Barriers and Silt Fences
- Stabilized Construction Access
- Topsoil Stockpiles
- Temporary and Permanent Stabilization

REVIEW AGENCIES

Following is a list of the agencies from which approvals, permits and licenses are anticipated to be required:

- Township of Neptune Planning Board
- Monmouth County Planning Board
- Freehold Soil Conservation District
- New Jersey American Water Company
- Township of Neptune Sewerage Authority
- New Jersey Department of Environmental Protection

CONCLUSION

In summary, the proposed improvements will result in minimal environmental impact on the site or the surrounding area and is designed in substantial conformance with the Neptune Township Ordinance. The site is currently developed with an existing 1 story frame dwelling. Any clearing of existing vegetation will be mitigated through the implementation of an aesthetically appealing landscaping plan and intelligent site development and planning. The development of the site will provide a safe and beneficial use on the subject property. The proposed project is well suited for the existing property and the use is complimentary to the surrounding area. Alternate design concepts are always possible; however, the impacts to the environment from alternative designs with similar uses would be the same as proposed.

APPENDIX A

Tax Map

USGS Map

Hydrologic Soils Map

Depth to Groundwater Map

FEMA Map

InSite Engineering, LLC
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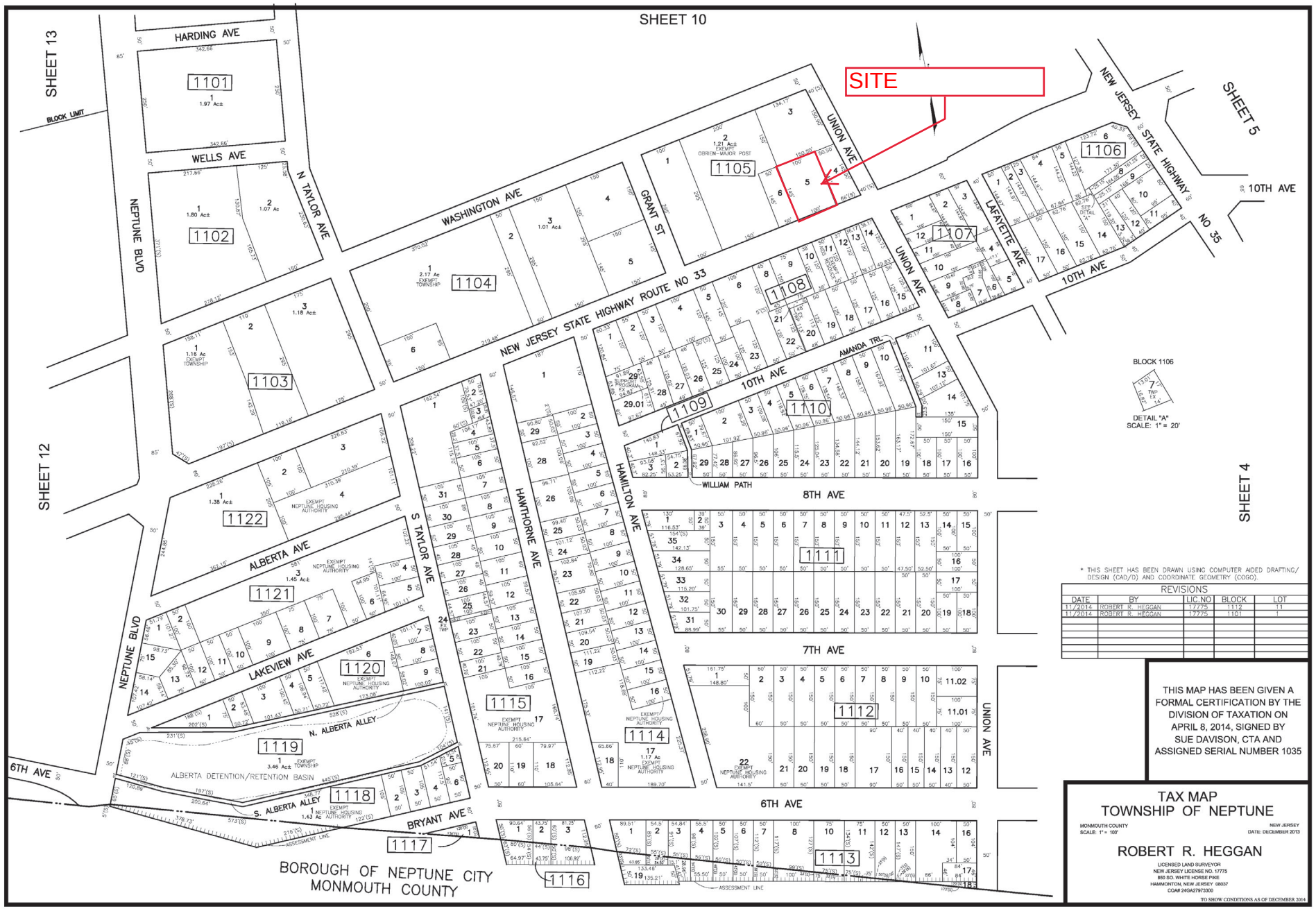
Licensed in NJ, PA, DE, NY, CT, NC, DC, & CO



* THIS SHEET HAS BEEN DRAWN USING COMPUTER AIDED DRAFTING/ DESIGN (CAD/D) AND COORDINATE GEOMETRY (COGO).

REVISIONS

DATE	BY	LIC.NO	BLOCK	LOT
11/2014	ROBERT R. HEGGAN	17775	1112	11
11/2014	ROBERT R. HEGGAN	17775	1101	1

THIS MAP HAS BEEN GIVEN A FORMAL CERTIFICATION BY THE DIVISION OF TAXATION ON APRIL 8, 2014, SIGNED BY SUE DAVISON, CTA AND ASSIGNED SERIAL NUMBER 1035

TAX MAP
TOWNSHIP OF NEPTUNE

MONMOUTH COUNTY
SCALE: 1" = 100'

NEW JERSEY
DATE: DECEMBER 2013

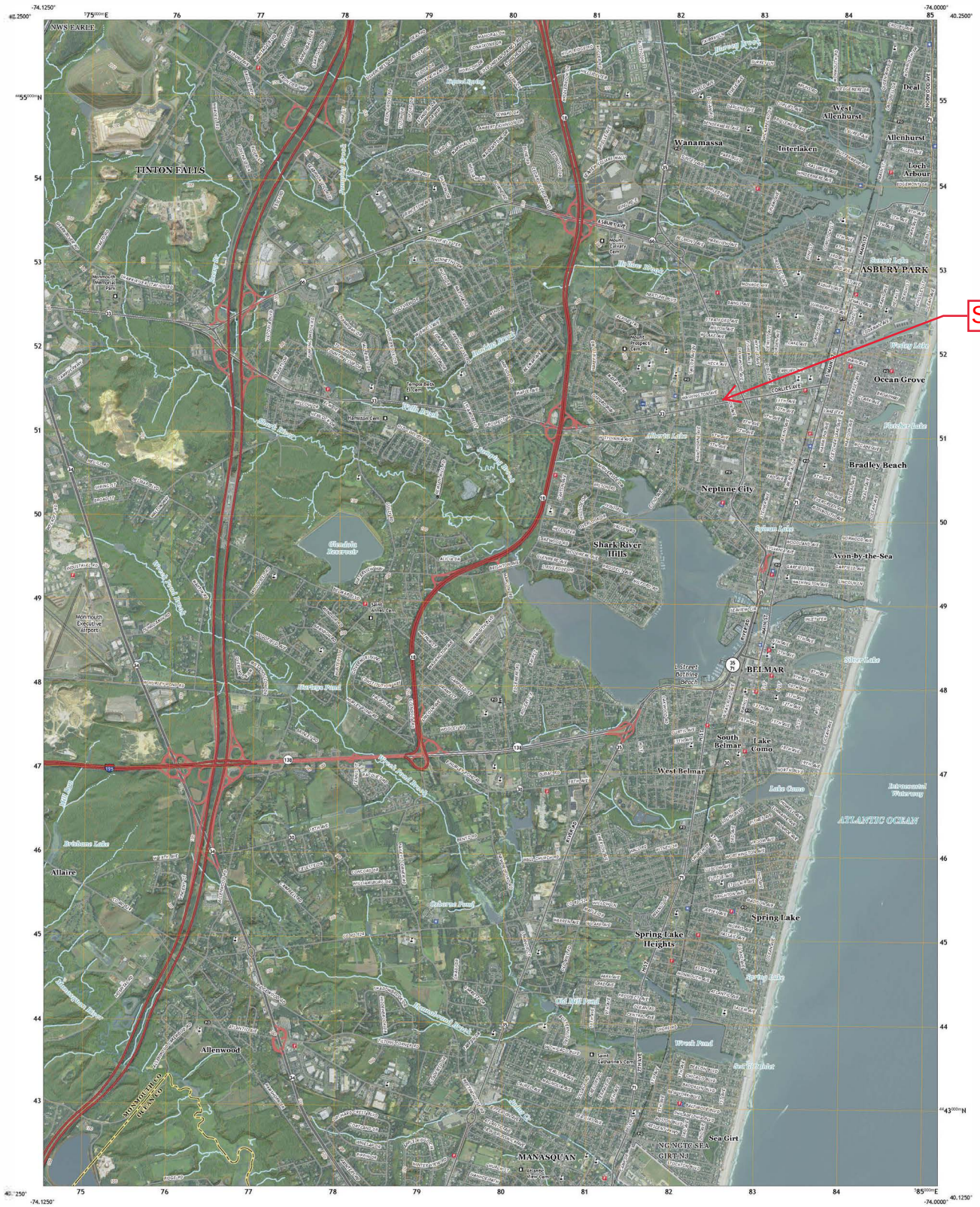
ROBERT R. HEGGAN
LICENSED LAND SURVEYOR
NEW JERSEY LICENSE NO. 17775
855 SO. WHITE HORSE PIKE
HAMMONTON, NEW JERSEY 08037
COA# 24GA27973300

TO SHOW CONDITIONS AS OF DECEMBER 2014

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

ASBURY PARK QUADRANGLE
NEW JERSEY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 18T
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, July 2015 - September 2015
Roads.....U.S. Census Bureau, 2016
Names.....GNIS, 1979 - 2019
Hydrography.....National Hydrography Dataset, 2002 - 2009
Contours.....National Elevation Dataset, 2012
Boundaries.....Multiple sources; see metadata file 2017 - 2018
Wetlands.....FWS National Wetlands Inventory 2007 - 2008

SCALE 1:24000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

1 Marlboro
2 Long Branch West
3 Long Branch East
4 Farmingdale
5 Asbury Park OE E
6 Lakewood
7 Point Pleasant

ROAD CLASSIFICATION

ASBURY PARK, NJ
2019

Map Scale: 1:329 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 4 9 18 27

Feet: 0 15 30 60 90

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Monmouth County, New Jersey
Survey Area Data: Version 15, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 25, 2020—Oct 15, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
KkhB	Klej loamy sand-Urban land complex, 0 to 5 percent slopes	A/D	0.4	100.0%
Totals for Area of Interest			**0.4**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Depth to Water Table—Monmouth County, New Jersey

Map Scale: 1:315 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 4 9 18 27

Feet: 0 15 30 60 90

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Lines

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Points

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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Date(s) aerial images were photographed: Sep 25, 2020—Oct 15, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
KkhB	Klej loamy sand-Urban land complex, 0 to 5 percent slopes	46	0.4	100.0%
Totals for Area of Interest			**0.4**	**100.0%**

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was State Plane New Jersey FIPS 2900. The **horizontal datum** was NAD83, GRS 80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the New Jersey Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS). This information was derived from digital orthophotos produced at a scale of 1:2400 (1"=200') with a 1 foot pixel resolution from photography dated 2012.

This map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LiMWA)**. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Contact the **FEMA Map Information eXchange** at 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Information eXchange may also be reached by Fax at 1-800-358-9620 and their website at http://www.msc.fema.gov.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

NOTE TO MAP USERS

This June 15th, 2022 map revision only updates flood hazard data within the Township of Neptune.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- New Jersey Flood Hazard Area Design Flood (NJFHADF)
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Limit of Moderate Wave Action
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- Cross section line
- Limited detail cross section line
- Transect line
- 87°07'45", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 4376000mN — 1000-meter Universal Transverse Mercator grid values, zone 18N
- 600000 FT — 5000-foot grid values: New Jersey State Plane coordinate system (FIPSZONE 2900), Transverse Mercator projection
- DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 25, 2009

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
June 15, 2022 - to incorporate new detailed coastal flood hazard analyses, to add Base Flood Elevations, and Special Flood Hazard Areas; to change zone designations and Special Flood Hazard Areas; and to reflect updated topographic information.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdictions.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0334G

FIRM
FLOOD INSURANCE RATE MAP

MONMOUTH COUNTY, NEW JERSEY
(ALL JURISDICTIONS)

PANEL 334 OF 457

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ASBURY PARK, CITY OF	340285	0334	G
AVON-BY-THE-SEA, BOROUGH OF	340287	0334	G
BELMAR, BOROUGH OF	345283	0334	G
BRADLEY BEACH, BOROUGH OF	340289	0334	G
NEPTUNE CITY, BOROUGH OF	340316	0334	G
NEPTUNE, TOWNSHIP OF	340317	0334	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
34025C0334G

MAP REVISED
JUNE 15, 2022

Federal Emergency Management Agency