<table>
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<th>Sheet 8</th>
<th>Sheet 9</th>
<th>Sheet 10</th>
<th>Sheet 11</th>
<th>Sheet 12</th>
<th>Sheet 13</th>
<th>Sheet 14</th>
</tr>
</thead>
</table>

### Great South Bay

- **Top Point:** Your Point (X, Y)

### Benchmark Data
- **Y373 (PID: KU0194)**
- **Moriches (PID: AA9073)**

### Survey Details
- **Surveyor:** Roger Surveying, PLLC
- **Address:** 2420 Arthur Kill Rd.
- **Website:** www.rogersurveying.net
- **Contact:** (718) 447-7311

### Surveyor's Notes
- **Survey Date:** 12 Nov. 2021
- **Map Scale:** 1 Inch = 100 Feet
- **Depot Chief of Survey:**
- **Civil Engineering Technician:**
- **Lead Cartographer:**
- **Civil Engineering Technician:**
- **Deputy Chief of Survey:**
- **Civil Engineering Technician:**

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**Table of Waterway Coordinates (NAD 83):**

<table>
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**Waterway Statement:**

- The information depicted on this map represents the results of soundings depicted on this map was collected using Project Classification General as specified in EM 1110-2-1003.
- Soundings on this map refer to the plane of mean lower low water.
- Soundings depicted on this map have been sorted to a 30' interval using the full data set.
- The data depicted on this map should not be used for volume.
- The planimetrics depicted on this map are for orientation.
- This survey was performed using Real Time Kinematic GPS and EM 1110-2-6056.
- This map is CEPD compliant in accordance with ER 1110-2-8160.

---

**Project Classification:**

- The information provided by NY State GIS Clearinghouse 2020.

---

**Surveyor's Signature:**

Roger Surveying, PLLC

**Surveyor's Contact:**

(718) 447-7311
SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET. COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, AS DETERMINED USING VDATUM (VER. 4.2). SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.
PROJECT SPECIFIC NOTES:
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
- THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT (MLLW) [EPOCH 1983-2001].
- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER.
- MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88 FOR PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
The information depicted on this map represents the results of coordinates referred to US State Plane Coordinate System NAD 1983, classification general as specified in EM 1110-2-1003. Long Island Lambert - Zone 3, US Survey Feet. (MLLW) [Epoch 1983-2001]. As determined using VDATUM (Ver. 4.2). Mean Lower Low Water is 0.70 to 1.40 feet below NAVD88. Contours on this map were generated using the map data set. The data depicted on this map should not be used for volume. The planimetrics depicted on this map are for orientation. This survey was performed using real-time kinematic GPS.
LOCAL CONTROL DATA

PROJECT SPECIFIC NOTES:
SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88
AS DETERMINED USING VDATUM (VER. 4.2).
BENCHMARK: MORICHES (PID:AA9073)

ELEVATION: 3.92' (NAVD 1988)

LOCAL CONTROL DATA

PROJECT SPECIFIC NOTES:
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION
- PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS

DATE: 12 NOV. 2021

DEPARTMENT OF THE ARMY

FLOOD PLAIN MAP, Sheet 25 of 55

CORPS OF ENGINEERS

ELEVATION: 4.86' (NAVD 1988)

NSRS BENCHMARK

DEPARTMENT OF THE ARMY

SHEET 25 OF 55

APPROVED:

DEPARTMENT OF THE ARMY

ELEVATION: 6.7' (NAVD 1988)

LOCAL CONTROL DATA

PROJECT SPECIFIC NOTES:
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION
- PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS

DATE: 12 NOV. 2021

DEPARTMENT OF THE ARMY

FLOOD PLAIN MAP, Sheet 25 of 55

CORPS OF ENGINEERS

ELEVATION: 6.3' (NAVD 1988)

LOCAL CONTROL DATA

PROJECT SPECIFIC NOTES:
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION
- PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS

DATE: 12 NOV. 2021

DEPARTMENT OF THE ARMY

FLOOD PLAIN MAP, Sheet 25 of 55

CORPS OF ENGINEERS

ELEVATION: 5.9' (NAVD 1988)

LOCAL CONTROL DATA

PROJECT SPECIFIC NOTES:
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION
- PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS

DATE: 12 NOV. 2021

DEPARTMENT OF THE ARMY

FLOOD PLAIN MAP, Sheet 25 of 55

CORPS OF ENGINEERS
CORPS OF ENGINEERS

NEW YORK DISTRICT
OF ENGINEERS

NEW YORK, NEW YORK 10278

www.rogerssurveying.net

REQ NO./FILE NO.: 5082

CONDIT SURVEY

DATE: 12 NOV. 2021

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT (MLLW) [EPOCH 1983-2001].

THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

AND EM 1110-2-6056.
MORICHES BAY

BENCHMARK: MORICHES (PID:AA9073)

ELEVATION: 4.86' (NAVD 1988)

AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET.

SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER AS DETERMINED USING VDATUM (VER. 4.2).

CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.

SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A

THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.

THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS PURPOSES ONLY.

FROM VRS "KEYNET" NETWORK.

THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160

NEW YORK DISTRICT

REQ NO./FILE NO.: 5082

DEPARTMENT OF THE ARMY

SHEET 30 OF 55

NEW YORK, NEW YORK 10278

ROGER S SURVEYING, PLLC

STATE: NEW YORK

COASTAL ENGINEERING TECHNICIAN

P. BHADUR

OPERATIONS DIVISION

www.rogerssurveying.net

J. M. RAZ

12 NOV. 2021
PROJECT SPECIFIC NOTES:

AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.

SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT

SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER

30’ INTERVAL USING THE FULL DATA SET.

CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.

CALCULATION PURPOSES.

PURPOSES ONLY.

THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160
PROJECT SPECIFIC NOTES:

AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET.

(SMLLW) [EPOCH 1983-2001].

SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER AS DETERMINED USING VDATUM (VER. 4.2).

THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME.

THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

AND EM 1110-2-6056.
**PROJECT SPECIFIC NOTES:**

- The information depicted on this map represents the results of the general conditions existing at that time. (MLLW) [EPOCH 1983-2001].

- Mean Lower Low Water is 0.70 to 1.40 feet below NAVD88.

- Soundings depicted on this map have been sorted to a vertical datum as determined using VDATUM (VER. 4.2).

- Contours on this map were generated using the map data set.

- The planimetrics depicted on this map are for orientation from VRS "KEYNET" network and EM 1110-2-6056.
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA

PROJECT SPECIFIC NOTES:
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF
- THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT
AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983,
- MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME
- AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.
- PURPOSES ONLY.
- FROM VRS "KEYNET" NETWORK.
- AND EM 1110-2-6056.

NEW YORK DISTRICT
OF ENGINEERS
REQ NO./FILE NO.: 5082
APPROVED:
DATE OF SURVEY:
FIELD CARTOGRAPHER
FIELD BOOKS:
OPERATIONS DIVISION

2420 Arthur Kill Rd.
VICTORY OF PATCHOGUE, N.Y.
12 NOV. 2021
SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.


CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.

AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.

THE PLAINMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

FROM VRS "KEYNET" NETWORK.
SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED RELIABLE IF THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SOUNDINGS DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT "MLLW" [EPOCH 1983-2001].

Soundings depicted on this map have been sorted to a context provided by the NY State GIS clearinghouse 2020.

This survey was performed using real-time kinematic GPS technology.

APPROVED:

ROGER S. SURVEYING, PLLC
2420 Arthur Kill Rd.
State Line, N.Y. 10309

OPERATIONS DIVISION
LEAD CARTOGRAPHER
CONDITIO SURVEY
DEPUTY CHIEF OF SURVEY
12 NOV. 2021
The information depicted on this map represents the results of soundings on this map referring to the plane of mean lower low water 30' interval using the full data set. This survey was performed using real-time kinematic GPS from VRS "KEYNET" network.

Benchmark: MORICHES (PID:AA9073)
Elevation: 3.26' (NAVD 1988)
Elevation: 4.86' (NAVD 1988)

Date of Survey: 10 Aug - 07 Oct 2021

Surveying, PLLC

Location: Vicinity of Patchogue, NY

New York District
U.S. Army Corps of Engineers

Approved: M. Forte, Civil Engineering Technician

Surveying, PLLC

Operation Division

Request No./File No.: 5082

Condition Survey

12 Nov 2021
PROJECT SPECIFIC NOTES:

CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88 (MLLW) [EPOCH 1983-2001]. AS DETERMINED USING VDATUM (VER. 4.2).

SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A CALCULATION PURPOSE.

THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION.

THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS AND EM 1110-2-6056.

SCALE: ONE INCH = 100 FEET

ON 10 AUG - 07 OCT. 2021

CIVIL ENGINEERING TECHNICIAN

2420 Arthur Kill Rd.

STATE ISLAND, N.Y. 10309

OPERATIONS DIVISION

LEAD CARTOGRAPHER

(718) 447-7311

REQ NO./FILE NO.: 5082

COND SURVEY

12 NOV 2021
THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, (MLLW) [EPOCH 1983-2001]. AS DETERMINED USING VDATUM (VER. 4.2). MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88 SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' INTERVAL USING THE FULL DATA SET. THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS AND EM 1110-2-6056. THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160.
PROJECT SPECIFIC NOTES:
- THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER AS DETERMINED USING VDATUM (VER. 4.2).
- MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION FROM VRS "KEYNET" NETWORK.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS

BENCHMARK: PINE NECK POINT
ELEVATION: 4.5

LOCAL CONTROL DATA
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

PROJECT SPECIFIC NOTES:
SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED (MLLW) [EPOCH 1983-2001]. 30' INTERVAL USING THE FULL DATA SET. THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF AS THE GENERAL CONDITIONS EXISTING AT THAT TIME. LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET. AS DETERMINED USING VDATUM (VER. 4.2). PURPOSES ONLY.

- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

DATE OF SURVEY:

SCALE:

SHINNECOCK BAY
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003. LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET. AS DETERMINED USING VDATUM (VER. 4.2). 30' INTERVAL USING THE FULL DATA SET.

THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.

AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.

THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.
The sounding data depicted on this map was collected using Project As the General Conditions Existing at That Time. The information depicted on this map represents the results of (MLLW) [Epoch 1983-2001]. Mean Lower Low Water is 0.70 to 1.40 feet below NAVD88 30' interval using the full data set. The planimetrics depicted on this map are for orientation - Aerial imagery provided by NY State GIS Clearinghouse 2020. This survey was performed using Real Time Kinematic GPS - This map is CEPD compliant in accordance with ER 1110-2-8160.
AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.

SCALE: 1"=100' (NAVD 1988)

DATE: 12 NOV. 2021

NEW YORK DISTRICT LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

ROGERS SURVEYING, PLLC
2420 Arthur Kill Rd.
New York District
US Army Corps
Sheet 54 of 55

Approved:

VH-154

Classified by:

M. FORTE
Civil Engineering Technician

FIELD BOARDS:

ROGER SURVEYING, PLLC

STATE: New York

DATE: 12 Nov. 2021

BENCHMARK: MORICHES (PID:AA9073)

5.36' (NAVD 1988)

OPERATIONS DIVISION

Apprved:

M. FORTE
Civil Engineering Technician

FIELD BOARDS:

ROGER SURVEYING, PLLC

STATE: New York

DATE: 12 Nov. 2021

BENCHMARK: MORICHES (PID:AA9073)

5.36' (NAVD 1988)