

W00473

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Service

DESCRIPTIVE REPORT

Type of Survey: Navigable Area

Registry Number: W00473

LOCALITY

State(s): New Jersey

General Locality: Barnegat Bay

Sub-locality: Forked River and Deep Creek Channels

2019

CHIEF OF PARTY
Gahagan & Bryant Associates

LIBRARY & ARCHIVES

Date:

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET		W00473
INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.		
State(s):	New Jersey	
General Locality:	Barnegat Bay	
Sub-Locality:	Forked River and Deep Creek Channels	
Scale:	N/A	
Dates of Survey:	07/24/2017 to 01/17/2018	
Instructions Dated:	N/A	
Project Number:	ESD-PHB-19	
Field Unit:	New Jersey Department of Transportation	
Chief of Party:	Gahagan & Bryant Associates	
Soundings by:	Odom CV100 (SBES) Odom CV200 (SBES)	
Imagery by:	N/A	
Verification by:	Pacific Hydrographic Branch	
Soundings Acquired in:	meters at Mean Lower Low Water	
Remarks: <i>The purpose of this survey is to provide contemporary surveys to update National Ocean Service (NOS) nautical charts. All separates are filed with the hydrographic data. Any revisions to the Descriptive Report (DR) generated during office processing are shown in bold red italic text. The processing branch maintains the DR as a field unit product, therefore, all information and recommendations within the body of the DR are considered preliminary unless otherwise noted. The final disposition of surveyed features is represented in the OCS nautical chart update products. All pertinent records for this survey, including the DR, are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via http://www.ncei.noaa.gov/.</i>		

DESCRIPTIVE REPORT MEMO

February 03, 2020

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: Report prepared by PHB on behalf of field unit
Toshi Wozumi
Physical Scientist, Pacific Hydrographic Branch

SUBJECT: Submission of Survey W00473

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation. This survey dataset documents the pre and post construction conditions of the subject channel.

All soundings were reduced to Mean Lower Low Water using Constant Separation. The horizontal datum for this project is North American Datum of 1983 (NAD 83). The projection used for this project is Universal Transverse Mercator (UTM) Zone 18.

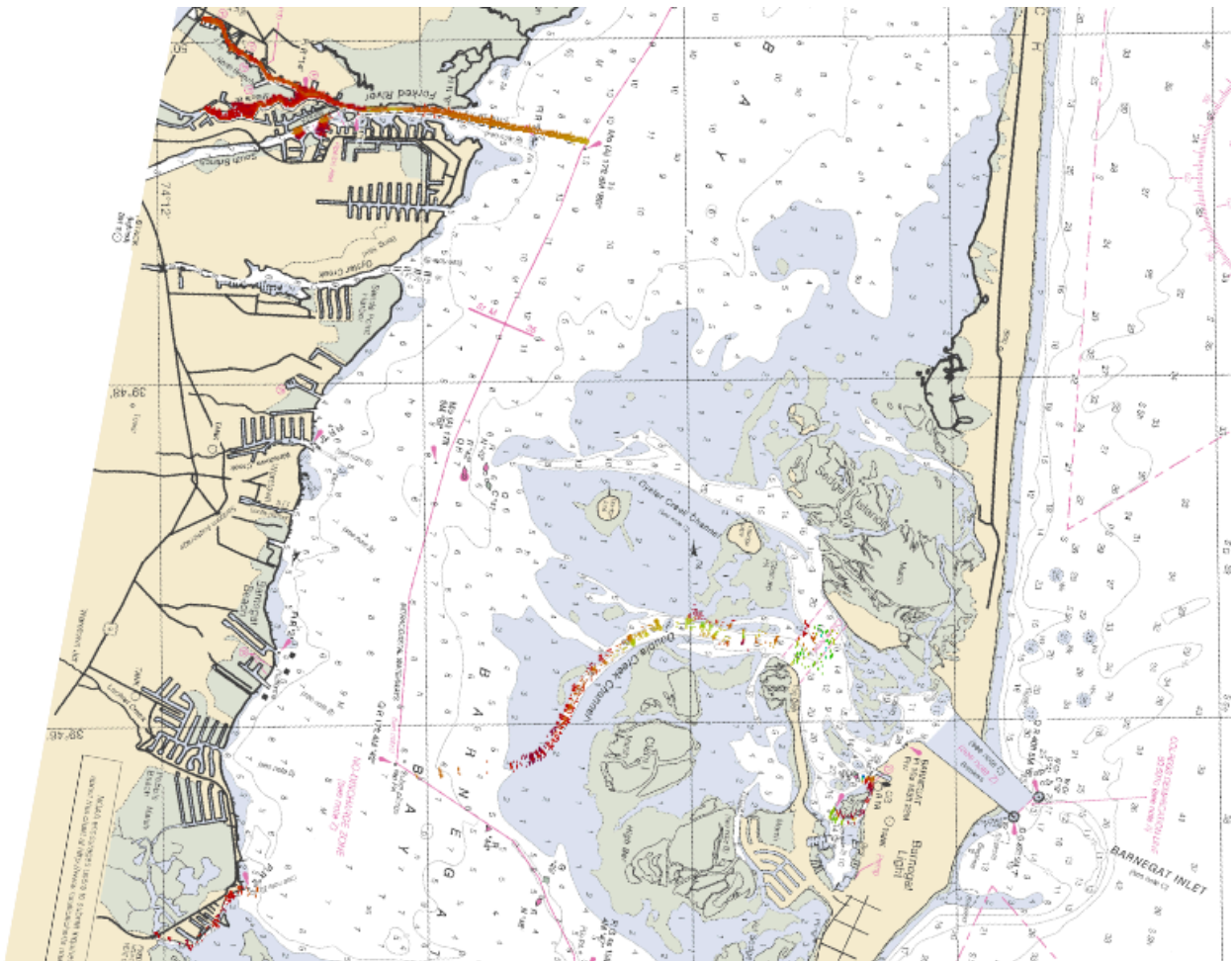
This report does not include vertical and horizontal control information.

This report does not include data acquisition and processing information.

All data were reviewed for DTONs and none were identified in this survey.

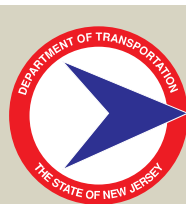
New Jersey Department of Transportation acquired the data outlined in this report.

This survey will be used to update NOAA navigational products where possible.



Overview of W00473 survey area

The survey is partially adequate to supersede previous data. For further information regarding survey equipment and methods refer to the attached NJDOT metadata report.



NJDOT STATE DREDGING PROGRAM SUPER STORM SANDY RECOVERY PW4846 CHANNELS

Anticipated Project Dates



- 2014
- 2015
- 2016
- 2017
- 2018
- Completed

Channel not included in PW

Channel ID	Burlington County Channels
213	Dredge Harbor
215	Crosswicks Creek

Channel ID	Camden County Channels
212	Big Timber Creek

Channel ID	Atlantic County Channels
166	Nacote Creek
167	Nacote Creek Basin
168	Motts Creek
169	Oyster Creek - Great Bay
170	Brigantine Channel
171	St George's Thorofare
172	Absecon Creek
173	Tunis Basin
174	Lakes Bay
175	Lakes Bay Spur
176	Risleys Channel
177	Great Egg Harbor River
179	Patcong Creek
180	Ship Channel

Channel ID	Cumberland County Channels
211	Fortescue Creek - 2015
216	Nantuxent Creek

Channel ID	Cape May County Channels	195 Long Reach Thorofare
178	Tuckahoe River	196 Long Reach Thorofare Ramp
181	USCG Lagoon	197 Whale Harbor
182	USCG Lagoon Spur	198 Beach Creek 1
183	Krause's Cut	199 Beach Creek 2
184	Carnival Bayou	200 Ottens Harbor
185	Venetian Bayou	201 Ottens Canal (Lagoon)
186	Ocean City Lagoon	202 West Wildwood Channel
187	Corson's Inlet Ramp Channel	203 Ottens Canal
188	Strathmere Channel	204 Sunset Lake Channel
189	Flat Creek	205 Middle Thorofare Lagoon
190	Whale Creek Channel	206 Spicers Creek
191	North Basin	207 Cape Island Creek
192	Middle Basin	208 Shellengers Creek - Cape Island
193	South Basin	209 Devils Reach
194	Graven Thorofare	210 Bidwells Creek

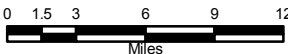
Channel ID	Middlesex County Channels
1	Smith Creek
2	Cheesquake Entry
3	Cheesquake Creek
4	Stump Creek

Channel ID	Monmouth County Channels	24 Town Neck Creek
5	Waackaack Creek	25 Oceanport Creek Entry
6	Thorns Creek	26 Oceanport Creek
7	Pews Creek	27 Parker Creek
8	Compton's Creek	28 Horseneck Point Creek
9	Leonardo State Marina	29 Blackberry Creek
10	Leonardo Basin 1	30 Blackberry Creek Spur West
11	Leonardo Basin 2	31 Blackberry Creek Spur East
12	Black Point Creek	32 Raccoon Channel
13	Oceanic Bridge	33 Raccoon Channel Spur
14	Upper Navesink River	34 Manhasett Creek
15	Oyster Bay	35 Manhasett Creek Spur
16	Monmouth Beach Channel	36 Troutman's Creek
17	Rumson Country Club Y Channel	37 Branchport Creek
18	Rumson Country Club Y Spur	38 Shark River
19	Rumson Country Club	39 Shark River Spur
20	Little Silver Creek	43 The Glimmer Glass
21	Little Silver Creek Spur 3	44 Watsons Creek
22	Little Silver Creek Spur 2	45 Shermans Creek
23	Little Silver Creek Spur 1	46 Crabtown Creek

Channel ID	Ocean County Channels
40	Upper Manasquan River
41	Lower Manasquan River
42	Sawmill Creek - Riviera Beach
47	Kings Bridge Channel
48	Wills Hole Thorofare
49	Wills Hole West
50	Cooks Creek
51	Manasquan Yacht Club
52	Clarke's Landing
53	Beaver Dam Creek North
54	Beaver Dam Creek South
55	Beaver Dam Creek Buoy Channel
56	Gunners Ditch
57	Bay Head
58	Green Cove Channel
59	Upper Metedeconk River
60	Metedeconk River
61	Winter Yacht Basin
62	Havens Cove
63	Seaweed Cove Entry
64	Seaweed Cove
65	Mantoloking Curtis Pt Left
66	Mantoloking 2 Dutchman's
67	Mantoloking 3

Channel ID	Ocean County Channels
68	Mantoloking Curtis Pt
69	Mantoloking 4
70	Kettle Creek Sailors Quay
71	Kettle Creek
72	Andrews Point
73	Silver Bay
74	Silver Bay Entrance
75	Chadwick Beach Channel
76	Lavallette Beach Channel
77	Ocean Beach Channel
78	Lavallette Buoy Channel
79	Lavallette Spur 2
80	Lavallette Spur
81	Goose Creek
82	Pier 1 Channel
83	Bay Shore Bridge
84	Toms River
85	Toms River Spur
86	Lighthouse Marine
87	Island Heights
88	Dillons Creek
89	Bay Shore Toms River
90	Oceangate
91	Good Luck Point
92	Berkeley Shores Channel North
93	Berkeley Shores Channel
94	Berkeley Shores Channel Spur
95	Sloop Creek
96	Clamming Creek North
97	Clamming Creek South
98	Whites Channel
99	Butler Blvd Access Channel
100	Maple Creek

Channel ID	Ocean County Channels
101	Cedar Creek
102	Cedar Creek Spur
103	Laurel Harbor North
104	Laurel Harbor South
105	Stouts Creek
106	Sunrise Beach
107	Sunrise Beach Spur
108	Forked River
109	Forked River Middle Branch
110	Forked River Middle Branch Spur
111	South Branch Forked River
112	South Branch Spur (Elks Channel)
113	South Branch Spur a
114	South Branch Spur b
115	Forked River Beach
116	Oyster Creek
117	Holiday Harbor
118	Skippers Cove
119	Waretown Creek
120	South Harbor
121	Waretown South Condos
122	Barnegat Beach Channel
123	Key Harbor
124	Pebble Beach
125	Double Creek Mainland
126	Double Creek Channel
127	High Bar Harbor
128	Barnegat Light Buoy Channel
129	Barnegat Light Stake
130	Loveladies vol-sedge
131	Loveladies North Spur
132	Loveladies
133	Harvey Cedars 2
134	Harvey Cedars 1
135	Harvey Cedars
136	Surf City
137	Dutchman's Surf City
138	Crossover Surf city
139	Ship Bottom
140	Flat Island East
141	Lower Flat Island East
142	Brant Beach
143	Margos
144	Beach Haven West
145	Mill Creek
146	Cedar Run
147	Westcunk Creek
148	Parkers Run
149	Peahala Park
150	Southwick
151	Bay Harbor
152	Eastern Channel
153	Shelter Harbor
154	Beach Haven Condos
155	Morrisons Channel
156	Liberty Thorofare
157	Little Egg Channel
158	Buoy 77
159	Penna's
160	Marshholder Channel
161	Tuckerton Creek
162	Big Thorofare
163	Big Creek
164	Captain Mike's
165	Mullica River



File:Tim_mxd\OMR\Channel_gov_Poster2.mxd
Source: NJDOT OMR, NJOGIS< NJDEP
Date: October 23, 2014

108-Forked River

Identification_Information:

Citation:

Citation_Information:

Originator: Gahagan & Bryant Associates, Inc.(comp.)

Publication_Date: 20180404

Publication_Time: Unknown

Title: Forked River Channels, 108-Forked River, New Jersey

Edition: April, 2018

Geospatial_Data_Presentation_Form: XYZ

Series_Information:

Series_Name: Construction Survey

Issue_Identification: April, 2018

Publication_Information:

Publication_Place: Data Submission

Publisher: GBA

Description:

Abstract:

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation.

Purpose:

This survey dataset documents the pre and post construction conditions of the subject channel.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20170724

Ending_Date: 20171005

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -74.194375763

East_Bounding_Coordinate: -74.145426906

North_Bounding_Coordinate: 39.835462994

South_Bounding_Coordinate: 39.822570332

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard

Theme_Keyword: Hydrography

Theme_Keyword: Land Status

Theme_Keyword: Landform

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: New Jersey

Place_Keyword: Forked River Channels

Temporal:

Temporal_Keyword_Thesaurus: Time

Temporal_Keyword: July

Temporal_Keyword: October

Temporal_Keyword: 2017

Access_Constraints: None

Use_Constraints:

This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. Gahagan & Bryant Associates, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the New Jersey Department of Transportation and it is being provided for external use as a public service.

This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5-p M-F

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The construction survey on 7/24/2017 was performed using a Trimble SPS 461 RTK GPS and Odom CV200 precision echosounder deployed on the survey vessel

Morning Tide, a 25 ft Privateer with twin 150 Hp

Honda outboard motors. Surveys on

all other days were performed using a Leica GS14

Rover on Leica SmartNet RTK GPS and Odom CV100

precision echosounder deployed on a 16 ft center

console Carolina Skiff with 40 Hp Evenrude outboard

motor. The GPS system was used for position

and tides, while the echosounder collected depth data.

Horizontal grid is New Jersey State Plane Coordinate

System (Nad 83). Vertical Datum is NAVD 88.

Logical_Consistency_Report:

Control based on monuments, located in the area of surveys, were checked for horizontal and vertical consistency between dates of survey data collection.

Completeness_Report:

The contruction surveys for this time period have been completed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was

checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Vertical Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Lineage:

Process_Step:

Process_Description:

Hydrographic survey data was collected using an RTK GPS system and precision echosounder. Collected data was stored using Hypack Navigation software. Final processing was performed using software packages Microsoft Excel, ODP, and Autodesk Civil 3D. Quality control checks were performed on all data collected to meet accuracy criteria set in the scope of work.

Process_Date: 20171005

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates,

Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5p M-F

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point

Point_and_Vector_Object_Count: 286400

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: State Plane Coordinate System

1983

State_Plane_Coordinate_System:

SPCS_Zone_Identifier: 2900

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999900

Longitude_of_Central_Meridian: -074.50000

Latitude_of_Projection_Origin: +38.833333

False_Easting: 492125.0000

False_Northing: 0

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: .00

Ordinate_Resolution: .00

Planar_Distance_Units: Survey Feet

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: WGS-84

Semi-major_Axis: 20925604.474

Denominator_of_Flattening_Ratio: 298.25722

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Datum_Name: North American Vertical Datum of 1988

Altitude_Resolution: .1

Altitude_Distance_Units: Feet

Altitude_Encoding_Method: Explicit elevation coordinate included

with horizontal coordinates

Depth_System_Definition:

Depth_Datum_Name: Land survey datum

Depth_Resolution: .1

Depth_Distance_Units: Feet

Depth_Encoding_Method: Explicit depth coordinate included with horizontal coordinates

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Distribution_Liability: This product is intended for the New Jersey Department of Transportation.

Metadata_Reference_Information:

Metadata_Date: 20180404

Metadata_Review_Date: 20180404

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Contact_Voice_Telephone: 813.831.4408

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: 1.3

Metadata_Time_Convention: Local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

109-Forked River Middle Branch

Identification_Information:

Citation:

Citation_Information:

Originator: Gahagan & Bryant Associates, Inc.(comp.)

Publication_Date: 20180404

Publication_Time: Unknown

Title: Forked River Channels, 109-Forked River Middle Branch, New

Jersey

Edition: April, 2018

Geospatial_Data_Presentation_Form: XYZ

Series_Information:

Series_Name: Construction Survey

Issue_Identification: April, 2018

Publication_Information:

Publication_Place: Data Submission

Publisher: GBA

Description:

Abstract:

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation.

Purpose:

This survey dataset documents the post construction condition of the subject channel.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20171005

Ending_Date: 20171005

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -74.194625072

East_Bounding_Coordinate: -74.180182594

North_Bounding_Coordinate: 39.828395881

South_Bounding_Coordinate: 39.825585763

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard

Theme_Keyword: Hydrography

Theme_Keyword: Land Status

Theme_Keyword: Landform

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: New Jersey

Place_Keyword: Forked River Channels

Temporal:

Temporal_Keyword_Thesaurus: Time

Temporal_Keyword: October

Temporal_Keyword: 2017

Access_Constraints: None

Use_Constraints:

This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. Gahagan & Bryant Associates, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the New Jersey Department of Transportation and it is being provided for external use as a public service.

This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5-p M-F

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

This construction survey was performed using a Leica GS14 Rover on Leica SmartNet RTK GPS and a Odom CV100 precision echosounder deployed on a 16 ft center console Carolina Skiff with 40 Hp Evenrude outboard motor. The GPS system was used for position and tides, while the echosounder collected depth data. Horizontal grid is New Jersey State Plane Coordinate System (Nad 83). Vertical Datum is NAVD 88.

Logical_Consistency_Report:

Control based on monuments, located in the area of surveys, were checked for horizontal and vertical consistency between dates of survey data collection.

Completeness_Report:

The construction surveys for this time period have been completed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Vertical Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Lineage:

Process_Step:

Process_Description:

Hydrographic survey data was collected using an RTK GPS system and precision echosounder. Collected data was stored using Hypack Navigation software. Final processing was performed using software packages Microsoft Excel, ODP, and Autodesk Civil 3D. Quality control checks were performed on all data collected to meet accuracy criteria set in the scope of work.

Process_Date: 20171005

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates,
Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5p M-F

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point
 Point_and_Vector_Object_Count: 125513
 Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
 Planar:
 Grid_Coordinate_System:
 Grid_Coordinate_System_Name: State Plane Coordinate System
 1983
 State_Plane_Coordinate_System:
 SPCS_Zone_Identifier: 2900
 Transverse_Mercator:
 Scale_Factor_at_Central_Meridian: 0.999900
 Longitude_of_Central_Meridian: -074.50000
 Latitude_of_Projection_Origin: +38.833333
 False_Easting: 492125.0000
 False_Northing: 0
 Planar_Coordinate_Information:
 Planar_Coordinate_Encoding_Method: coordinate pair
 Coordinate_Representation:
 Abscissa_Resolution: .00
 Ordinate_Resolution: .00
 Planar_Distance_Units: Survey Feet
 Geodetic_Model:
 Horizontal_Datum_Name: North American Datum of 1983
 Ellipsoid_Name: WGS-84
 Semi-major_Axis: 20925604.474
 Denominator_of_Flattening_Ratio: 298.25722
 Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Altitude_Datum_Name: North American Vertical Datum of 1988
 Altitude_Resolution: .1
 Altitude_Distance_Units: Feet
 Altitude_Encoding_Method: Explicit elevation coordinate included
 with horizontal coordinates
 Depth_System_Definition:
 Depth_Datum_Name: Land survey datum
 Depth_Resolution: .1
 Depth_Distance_Units: Feet

Depth_Encoding_Method: Explicit depth coordinate included with horizontal coordinates

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Distribution_Liability: This product is intended for the New Jersey Department of Transportation.

Metadata_Reference_Information:

Metadata_Date: 20180404

Metadata_Review_Date: 20180404

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Contact_Voice_Telephone: 813.831.4408

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: 1.3

Metadata_Time_Convention: Local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

110-Forked River Middle Branch Spur

Identification_Information:

Citation:

Citation_Information:

Originator: Gahagan & Bryant Associates, Inc.(comp.)

Publication_Date: 20180404

Publication_Time: Unknown

Title: Forked River Channels, 110-Forked River Middle Branch Spur,

New Jersey

Edition: April, 2018

Geospatial_Data_Presentation_Form: XYZ

Series_Information:

Series_Name: Construction Survey

Issue_Identification: April, 2018

Publication_Information:

Publication_Place: Data Submission

Publisher: GBA

Description:

Abstract:

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation.

Purpose:

This survey dataset documents the post construction condition of the subject channel.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20171005

Ending_Date: 20171005

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -74.191095317

East_Bounding_Coordinate: -74.186951832

North_Bounding_Coordinate: 39.827380738

South_Bounding_Coordinate: 39.826167541

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard

Theme_Keyword: Hydrography

Theme_Keyword: Land Status

Theme_Keyword: Landform

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: New Jersey

Place_Keyword: Forked River Channels

Temporal:

Temporal_Keyword_Thesaurus: Time

Temporal_Keyword: October

Temporal_Keyword: 2017

Access_Constraints: None

Use_Constraints:

This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. Gahagan & Bryant Associates, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the New Jersey Department of Transportation and it is being provided for external use as a public service.

This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5-p M-F

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

This construction survey was performed using a Leica GS14 Rover on Leica SmartNet RTK GPS and a Odom CV100 precision echosounder deployed on a 16 ft center console Carolina Skiff with 40 Hp Evenrude outboard motor. The GPS system was used for position and tides, while the echosounder collected depth data. Horizontal grid is New Jersey State Plane Coordinate System (Nad 83). Vertical Datum is NAVD 88.

Logical_Consistency_Report:

Control based on monuments, located in the area of surveys, were checked for horizontal and vertical consistency between dates of survey data collection.

Completeness_Report:

The construction surveys for this time period have been completed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Vertical Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Lineage:

Process_Step:

Process_Description:

Hydrographic survey data was collected using an RTK GPS system and precision echosounder. Collected data was stored using Hypack Navigation software. Final processing was performed using software packages Microsoft Excel, ODP, and Autodesk Civil 3D. Quality control checks were performed on all data collected to meet accuracy criteria set in the scope of work.

Process_Date: 20171005

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates,
Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5p M-F

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point
 Point_and_Vector_Object_Count: 40043
 Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
 Planar:
 Grid_Coordinate_System:
 Grid_Coordinate_System_Name: State Plane Coordinate System
 1983
 State_Plane_Coordinate_System:
 SPCS_Zone_Identifier: 2900
 Transverse_Mercator:
 Scale_Factor_at_Central_Meridian: 0.999900
 Longitude_of_Central_Meridian: -074.50000
 Latitude_of_Projection_Origin: +38.833333
 False_Easting: 492125.0000
 False_Northing: 0
 Planar_Coordinate_Information:
 Planar_Coordinate_Encoding_Method: coordinate pair
 Coordinate_Representation:
 Abscissa_Resolution: .00
 Ordinate_Resolution: .00
 Planar_Distance_Units: Survey Feet
 Geodetic_Model:
 Horizontal_Datum_Name: North American Datum of 1983
 Ellipsoid_Name: WGS-84
 Semi-major_Axis: 20925604.474
 Denominator_of_Flattening_Ratio: 298.25722
 Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Altitude_Datum_Name: North American Vertical Datum of 1988
 Altitude_Resolution: .1
 Altitude_Distance_Units: Feet
 Altitude_Encoding_Method: Explicit elevation coordinate included
 with horizontal coordinates
 Depth_System_Definition:
 Depth_Datum_Name: Land survey datum
 Depth_Resolution: .1
 Depth_Distance_Units: Feet

Depth_Encoding_Method: Explicit depth coordinate included with horizontal coordinates

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Distribution_Liability: This product is intended for the New Jersey Department of Transportation.

Metadata_Reference_Information:

Metadata_Date: 20180404

Metadata_Review_Date: 20180404

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Contact_Voice_Telephone: 813.831.4408

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: 1.3

Metadata_Time_Convention: Local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

112-South Branch Spur Elks Channel

Identification_Information:

Citation:

Citation_Information:

Originator: Gahagan & Bryant Associates, Inc.(comp.)

Publication_Date: 20180404

Publication_Time: Unknown

Title: Forked River Channels, 112-South Branch Spur Elks Channel,

New Jersey

Edition: April, 2018

Geospatial_Data_Presentation_Form: XYZ

Series_Information:

Series_Name: Construction Survey

Issue_Identification: April, 2018

Publication_Information:

Publication_Place: Data Submission

Publisher: GBA

Description:

Abstract:

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation.

Purpose:

This survey dataset documents the post construction condition of the subject channel.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20171005

Ending_Date: 20171005

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -74.183034554

East_Bounding_Coordinate: -74.181356557

North_Bounding_Coordinate: 39.824757170

South_Bounding_Coordinate: 39.823473740

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard

Theme_Keyword: Hydrography

Theme_Keyword: Land Status

Theme_Keyword: Landform

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: New Jersey

Place_Keyword: Forked River Channels

Temporal:

Temporal_Keyword_Thesaurus: Time

Temporal_Keyword: October

Temporal_Keyword: 2017

Access_Constraints: None

Use_Constraints:

This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. Gahagan & Bryant Associates, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the New Jersey Department of Transportation and it is being provided for external use as a public service.

This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5-p M-F

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

This construction survey was performed using a Leica GS14 Rover on Leica SmartNet RTK GPS and a Odom CV100 precision echosounder deployed on a 16 ft center console Carolina Skiff with 40 Hp Evenrude outboard motor. The GPS system was used for position and tides, while the echosounder collected depth data. Horizontal grid is New Jersey State Plane Coordinate System (Nad 83). Vertical Datum is NAVD 88.

Logical_Consistency_Report:

Control based on monuments, located in the area of surveys, were checked for horizontal and vertical consistency between dates of survey data collection.

Completeness_Report:

The construction surveys for this time period have been completed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Vertical Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Lineage:

Process_Step:

Process_Description:

Hydrographic survey data was collected using an RTK GPS system and precision echosounder. Collected data was stored using Hypack Navigation software. Final processing was performed using software packages Microsoft Excel, ODP, and Autodesk Civil 3D. Quality control checks were performed on all data collected to meet accuracy criteria set in the scope of work.

Process_Date: 20171005

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates,
Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5p M-F

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point
 Point_and_Vector_Object_Count: 18929
 Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
 Planar:
 Grid_Coordinate_System:
 Grid_Coordinate_System_Name: State Plane Coordinate System
 1983
 State_Plane_Coordinate_System:
 SPCS_Zone_Identifier: 2900
 Transverse_Mercator:
 Scale_Factor_at_Central_Meridian: 0.999900
 Longitude_of_Central_Meridian: -074.50000
 Latitude_of_Projection_Origin: +38.833333
 False_Easting: 492125.0000
 False_Northing: 0
 Planar_Coordinate_Information:
 Planar_Coordinate_Encoding_Method: coordinate pair
 Coordinate_Representation:
 Abscissa_Resolution: .00
 Ordinate_Resolution: .00
 Planar_Distance_Units: Survey Feet
 Geodetic_Model:
 Horizontal_Datum_Name: North American Datum of 1983
 Ellipsoid_Name: WGS-84
 Semi-major_Axis: 20925604.474
 Denominator_of_Flattening_Ratio: 298.25722
 Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Altitude_Datum_Name: North American Vertical Datum of 1988
 Altitude_Resolution: .1
 Altitude_Distance_Units: Feet
 Altitude_Encoding_Method: Explicit elevation coordinate included
 with horizontal coordinates
 Depth_System_Definition:
 Depth_Datum_Name: Land survey datum
 Depth_Resolution: .1
 Depth_Distance_Units: Feet

Depth_Encoding_Method: Explicit depth coordinate included with horizontal coordinates

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Distribution_Liability: This product is intended for the New Jersey Department of Transportation.

Metadata_Reference_Information:

Metadata_Date: 20180404

Metadata_Review_Date: 20180404

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Contact_Voice_Telephone: 813.831.4408

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: 1.3

Metadata_Time_Convention: Local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

114-South Branch Spur B

Identification_Information:

Citation:

Citation_Information:

Originator: Gahagan & Bryant Associates, Inc.(comp.)

Publication_Date: 20180404

Publication_Time: Unknown

Title: Forked River Channels, 114-South Branch Spur B, New Jersey

Edition: April, 2018

Geospatial_Data_Presentation_Form: XYZ

Series_Information:

Series_Name: Construction Survey

Issue_Identification: April, 2018

Publication_Information:

Publication_Place: Data Submission

Publisher: GBA

Description:

Abstract:

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation.

Purpose:

This survey dataset documents the post construction condition of the subject channel.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20171005

Ending_Date: 20171005

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -74.180062330

East_Bounding_Coordinate: -74.177819845

North_Bounding_Coordinate: 39.825975248

South_Bounding_Coordinate: 39.823785756

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard

Theme_Keyword: Hydrography

Theme_Keyword: Land Status

Theme_Keyword: Landform

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: New Jersey

Place_Keyword: Forked River Channels

Temporal:

Temporal_Keyword_Thesaurus: Time

Temporal_Keyword: October

Temporal_Keyword: 2017

Access_Constraints: None

Use_Constraints:

This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. Gahagan & Bryant Associates, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the New Jersey Department of Transportation and it is being provided for external use as a public service.

This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5-p M-F

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

This construction survey was performed using a Leica GS14 Rover on Leica SmartNet RTK GPS and a Odom CV100 precision echosounder deployed on a 16 ft center console Carolina Skiff with 40 Hp Evenrude outboard motor. The GPS system was used for position and tides, while the echosounder collected depth data. Horizontal grid is New Jersey State Plane Coordinate System (Nad 83). Vertical Datum is NAVD 88.

Logical_Consistency_Report:

Control based on monuments, located in the area of surveys, were checked for horizontal and vertical consistency between dates of survey data collection.

Completeness_Report:

The construction surveys for this time period have been completed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Vertical Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Lineage:

Process_Step:

Process_Description:

Hydrographic survey data was collected using an RTK GPS system and precision echosounder. Collected data was stored using Hypack Navigation software. Final processing was performed using software packages Microsoft Excel, ODP, and Autodesk Civil 3D. Quality control checks were performed on all data collected to meet accuracy criteria set in the scope of work.

Process_Date: 20171005

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates,
Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5p M-F

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point

Point_and_Vector_Object_Count: 36110
Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: State Plane Coordinate System
1983
State_Plane_Coordinate_System:
SPCS_Zone_Identifier: 2900
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.999900
Longitude_of_Central_Meridian: -074.50000
Latitude_of_Projection_Origin: +38.833333
False_Easting: 492125.0000
False_Northing: 0
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: .00
Ordinate_Resolution: .00
Planar_Distance_Units: Survey Feet
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: WGS-84
Semi-major_Axis: 20925604.474
Denominator_of_Flattening_Ratio: 298.25722
Vertical_Coordinate_System_Definition:
Altitude_System_Definition:
Altitude_Datum_Name: North American Vertical Datum of 1988
Altitude_Resolution: .1
Altitude_Distance_Units: Feet
Altitude_Encoding_Method: Explicit elevation coordinate included
with horizontal coordinates
Depth_System_Definition:
Depth_Datum_Name: Land survey datum
Depth_Resolution: .1
Depth_Distance_Units: Feet
Depth_Encoding_Method: Explicit depth coordinate included with

horizontal coordinates

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Distribution_Liability: This product is intended for the New Jersey Department of Transportation.

Metadata_Reference_Information:

Metadata_Date: 20180404

Metadata_Review_Date: 20180404

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Contact_Voice_Telephone: 813.831.4408

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: 1.3

Metadata_Time_Convention: Local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

125-DoubleCreekMainlandChannel

Identification_Information:

Citation:

Citation_Information:

Originator: Gahagan & Bryant Associates, Inc.(comp.)

Publication_Date: 20180307

Publication_Time: Unknown

Title: Barnegat Channels, 125-Double Creek Mainland Channel, New

Jersey

Edition: March, 2018

Geospatial_Data_Presentation_Form: XYZ

Series_Information:

Series_Name: Construction Survey

Issue_Identification: March, 2018

Publication_Information:

Publication_Place: Data Submission

Publisher: GBA

Description:

Abstract:

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation.

Purpose:

This survey dataset documents the pre and post construction conditions of the subject channel.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20171004

Ending_Date: 20171214

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -74.201203

East_Bounding_Coordinate: -74.187968

North_Bounding_Coordinate: 39.751104

South_Bounding_Coordinate: 39.744646

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard

Theme_Keyword: Hydrography

Theme_Keyword: Land Status

Theme_Keyword: Landform

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: New Jersey

Place_Keyword: Barnegat Channels

Temporal:

Temporal_Keyword_Thesaurus: Time

Temporal_Keyword: December

Temporal_Keyword: 2017

Access_Constraints: None

Use_Constraints:

This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. Gahagan & Bryant Associates, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the New Jersey Department of Transportation and it is being provided for external use as a public service.

This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5-p M-F

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

This construction survey was performed using a Leica GS14 Rover on Leica SmartNet RTK GPS and a Odom CV100 precision echosounder deployed on a 16 ft center console Carolina Skiff with 40 Hp Evenrude outboard motor. The GPS system was used for position and tides, while the echosounder collected depth data. Horizontal grid is New Jersey State Plane Coordinate System (Nad 83). Vertical Datum is NAVD 88.

Logical_Consistency_Report:

Control based on monuments, located in the area of surveys, were checked for horizontal and vertical consistency between dates of survey data collection.

Completeness_Report:

The construction surveys for this time period have been completed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Vertical Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Lineage:

Process_Step:

Process_Description:

Hydrographic survey data was collected using an RTK GPS system and precision echosounder. Collected data was stored using Hypack Navigation software. Final processing was performed using software packages Microsoft Excel, ODP, and Autodesk Civil 3D. Quality control checks were performed on all data collected to meet accuracy criteria set in the scope of work.

Process_Date: 20171214

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates,
Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5p M-F

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point
Point_and_Vector_Object_Count: 77080
Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: State Plane Coordinate System
1983
State_Plane_Coordinate_System:
SPCS_Zone_Identifier: 2900
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.999900
Longitude_of_Central_Meridian: -074.50000
Latitude_of_Projection_Origin: +38.833333
False_Easting: 492125.0000
False_Northing: 0
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: .00
Ordinate_Resolution: .00
Planar_Distance_Units: Survey Feet
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: WGS-84
Semi-major_Axis: 20925604.474
Denominator_of_Flattening_Ratio: 298.25722
Vertical_Coordinate_System_Definition:
Altitude_System_Definition:
Altitude_Datum_Name: North American Vertical Datum of 1988
Altitude_Resolution: .1
Altitude_Distance_Units: Feet
Altitude_Encoding_Method: Explicit elevation coordinate included
with horizontal coordinates
Depth_System_Definition:
Depth_Datum_Name: Land survey datum
Depth_Resolution: .1
Depth_Distance_Units: Feet

Depth_Encoding_Method: Explicit depth coordinate included with horizontal coordinates

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Distribution_Liability: This product is intended for the New Jersey Department of Transportation.

Metadata_Reference_Information:

Metadata_Date: 20180307

Metadata_Review_Date: 20180307

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Contact_Voice_Telephone: 813.831.4408

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: 1.3

Metadata_Time_Convention: Local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

126-DoubleCreekChannel

Identification_Information:

Citation:

Citation_Information:

Originator: Gahagan & Bryant Associates, Inc.(comp.)

Publication_Date: 20180307

Publication_Time: Unknown

Title: Barnegat Channels, 126-Double Creek Channel, New Jersey

Edition: March, 2018

Geospatial_Data_Presentation_Form: XYZ

Series_Information:

Series_Name: Construction Survey

Issue_Identification: March, 2018

Publication_Information:

Publication_Place: Data Submission

Publisher: GBA

Description:

Abstract:

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation.

Purpose:

This survey dataset documents the pre and post construction conditions of the subject channel.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20171003

Ending_Date: 20180117

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -74.168218

East_Bounding_Coordinate: -74.114488

North_Bounding_Coordinate: 39.778297

South_Bounding_Coordinate: 39.760743

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard

Theme_Keyword: Hydrography

Theme_Keyword: Land Status

Theme_Keyword: Landform

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: New Jersey

Place_Keyword: Barnegat Channels

Temporal:

Temporal_Keyword_Thesaurus: Time

Temporal_Keyword: January

Temporal_Keyword: 2018

Access_Constraints: None

Use_Constraints:

This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. Gahagan & Bryant Associates, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the New Jersey Department of Transportation and it is being provided for external use as a public service.

This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5-p M-F

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

This construction survey was performed using a Leica GS14 Rover on Leica SmartNet RTK GPS and a Odom CV100 precision echosounder deployed on a 16 ft center console Carolina Skiff with 40 Hp Evenrude outboard motor. The GPS system was used for position and tides, while the echosounder collected depth data. Horizontal grid is New Jersey State Plane Coordinate System (Nad 83). Vertical Datum is NAVD 88.

Logical_Consistency_Report:

Control based on monuments, located in the area of surveys, were checked for horizontal and vertical consistency between dates of survey data collection.

Completeness_Report:

The construction surveys for this time period have been completed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Vertical Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Lineage:

Process_Step:

Process_Description:

Hydrographic survey data was collected using an RTK GPS system and precision echosounder. Collected data was stored using Hypack Navigation software. Final processing was performed using software packages Microsoft Excel, ODP, and Autodesk Civil 3D. Quality control checks were performed on all data collected to meet accuracy criteria set in the scope of work.

Process_Date: 20180117

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates,
Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5p M-F

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point

Point_and_Vector_Object_Count: 442531

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: State Plane Coordinate System

1983

State_Plane_Coordinate_System:

SPCS_Zone_Identifier: 2900

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999900

Longitude_of_Central_Meridian: -074.50000

Latitude_of_Projection_Origin: +38.833333

False_Easting: 492125.0000

False_Northing: 0

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: .00

Ordinate_Resolution: .00

Planar_Distance_Units: Survey Feet

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: WGS-84

Semi-major_Axis: 20925604.474

Denominator_of_Flattening_Ratio: 298.25722

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Datum_Name: North American Vertical Datum of 1988

Altitude_Resolution: .1

Altitude_Distance_Units: Feet

Altitude_Encoding_Method: Explicit elevation coordinate included with horizontal coordinates

Depth_System_Definition:

Depth_Datum_Name: Land survey datum

Depth_Resolution: .1

Depth_Distance_Units: Feet

Depth_Encoding_Method: Explicit depth coordinate included with

horizontal coordinates

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Distribution_Liability: This product is intended for the New Jersey Department of Transportation.

Metadata_Reference_Information:

Metadata_Date: 20180307

Metadata_Review_Date: 20180307

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Contact_Voice_Telephone: 813.831.4408

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: 1.3

Metadata_Time_Convention: Local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

129-BarnegatLightStakeChannel

Identification_Information:

Citation:

Citation_Information:

Originator: Gahagan & Bryant Associates, Inc.(comp.)

Publication_Date: 20180307

Publication_Time: Unknown

Title: Barnegat Channels, 129-Barnegat Light Stake Channel, New

Jersey

Edition: March, 2018

Geospatial_Data_Presentation_Form: XYZ

Series_Information:

Series_Name: Construction Survey

Issue_Identification: March, 2018

Publication_Information:

Publication_Place: Data Submission

Publisher: GBA

Description:

Abstract:

Hydrographic surveys of New Jersey waterways are conducted to determine navigability and calculate dredged material quantities as requested by the New Jersey Department of Transportation.

Purpose:

This survey dataset documents the pre and post construction conditions of the subject channel.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20171004

Ending_Date: 20171215

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -74.116188

East_Bounding_Coordinate: -74.110403

North_Bounding_Coordinate: 39.761533

South_Bounding_Coordinate: 39.756209

Keywords:

Theme:

Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard

Theme_Keyword: Hydrography

Theme_Keyword: Land Status

Theme_Keyword: Landform

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: New Jersey

Place_Keyword: Barnegat Channels

Temporal:

Temporal_Keyword_Thesaurus: Time

Temporal_Keyword: December

Temporal_Keyword: 2017

Access_Constraints: None

Use_Constraints:

This survey information is accurate as of the date of publication. Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling scouring processes. Gahagan & Bryant Associates, Inc. accepts no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is intended for the internal use of the New Jersey Department of Transportation and it is being provided for external use as a public service.

This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is therefore not guaranteed, and prudent mariners should not rely solely upon it.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5-p M-F

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

This construction survey was performed using a Leica GS14 Rover on Leica SmartNet RTK GPS and a Odom CV100 precision echosounder deployed on a 16 ft center console Carolina Skiff with 40 Hp Evenrude outboard motor. The GPS system was used for position and tides, while the echosounder collected depth data. Horizontal grid is New Jersey State Plane Coordinate System (Nad 83). Vertical Datum is NAVD 88.

Logical_Consistency_Report:

Control based on monuments, located in the area of surveys, were checked for horizontal and vertical consistency between dates of survey data collection.

Completeness_Report:

The construction surveys for this time period have been completed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Vertical Accuracy was checked and verified before and after daily survey efforts. The RTK GPS system was checked with control points located near the project. Daily measurements were taken and compared to the documented actual position to ensure the deltas were within required accuracies of this project.

Lineage:

Process_Step:

Process_Description:

Hydrographic survey data was collected using an RTK GPS system and precision echosounder. Collected data was stored using Hypack Navigation software. Final processing was performed using software packages Microsoft Excel, ODP, and Autodesk Civil 3D. Quality control checks were performed on all data collected to meet accuracy criteria set in the scope of work.

Process_Date: 20171215

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates,
Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Contact_Facsimile_Telephone: 813.831.4408

Hours_of_Service: 9a-5p M-F

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point
 Point_and_Vector_Object_Count: 55703
 Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
 Planar:
 Grid_Coordinate_System:
 Grid_Coordinate_System_Name: State Plane Coordinate System
 1983
 State_Plane_Coordinate_System:
 SPCS_Zone_Identifier: 2900
 Transverse_Mercator:
 Scale_Factor_at_Central_Meridian: 0.999900
 Longitude_of_Central_Meridian: -074.50000
 Latitude_of_Projection_Origin: +38.833333
 False_Easting: 492125.0000
 False_Northing: 0
 Planar_Coordinate_Information:
 Planar_Coordinate_Encoding_Method: coordinate pair
 Coordinate_Representation:
 Abscissa_Resolution: .00
 Ordinate_Resolution: .00
 Planar_Distance_Units: Survey Feet
 Geodetic_Model:
 Horizontal_Datum_Name: North American Datum of 1983
 Ellipsoid_Name: WGS-84
 Semi-major_Axis: 20925604.474
 Denominator_of_Flattening_Ratio: 298.25722
 Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Altitude_Datum_Name: North American Vertical Datum of 1988
 Altitude_Resolution: .1
 Altitude_Distance_Units: Feet
 Altitude_Encoding_Method: Explicit elevation coordinate included
 with horizontal coordinates
 Depth_System_Definition:
 Depth_Datum_Name: Land survey datum
 Depth_Resolution: .1
 Depth_Distance_Units: Feet

Depth_Encoding_Method: Explicit depth coordinate included with horizontal coordinates

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Country: US

Contact_Voice_Telephone: 813.831.4408

Distribution_Liability: This product is intended for the New Jersey Department of Transportation.

Metadata_Reference_Information:

Metadata_Date: 20180307

Metadata_Review_Date: 20180307

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Gahagan & Bryant Associates, Inc.

Contact_Address:

Address_Type: mailing and physical address

Address: 3802 W. Bay to Bay Blvd.

City: Tampa

State_or_Province: FL

Postal_Code: 33629

Contact_Voice_Telephone: 813.831.4408

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: 1.3

Metadata_Time_Convention: Local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

APPROVAL PAGE

W00473

Data meet or exceed current specifications as certified by the OCS survey acceptance review process. Descriptive Report and survey data except where noted are adequate to supersede prior surveys and nautical charts in the common area.

The following products will be sent to NCEI for archive

- Descriptive Report
- Collection of Bathymetric Attributed Grids (BAGs)
- GeoPDF of survey products

The survey evaluation and verification has been conducted according current OCS Specifications, and the survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.

Approved: _____
Commander Olivia Hauser, NOAA
Chief, Pacific Hydrographic Branch