



New Jersey Tidal Benchmark Network

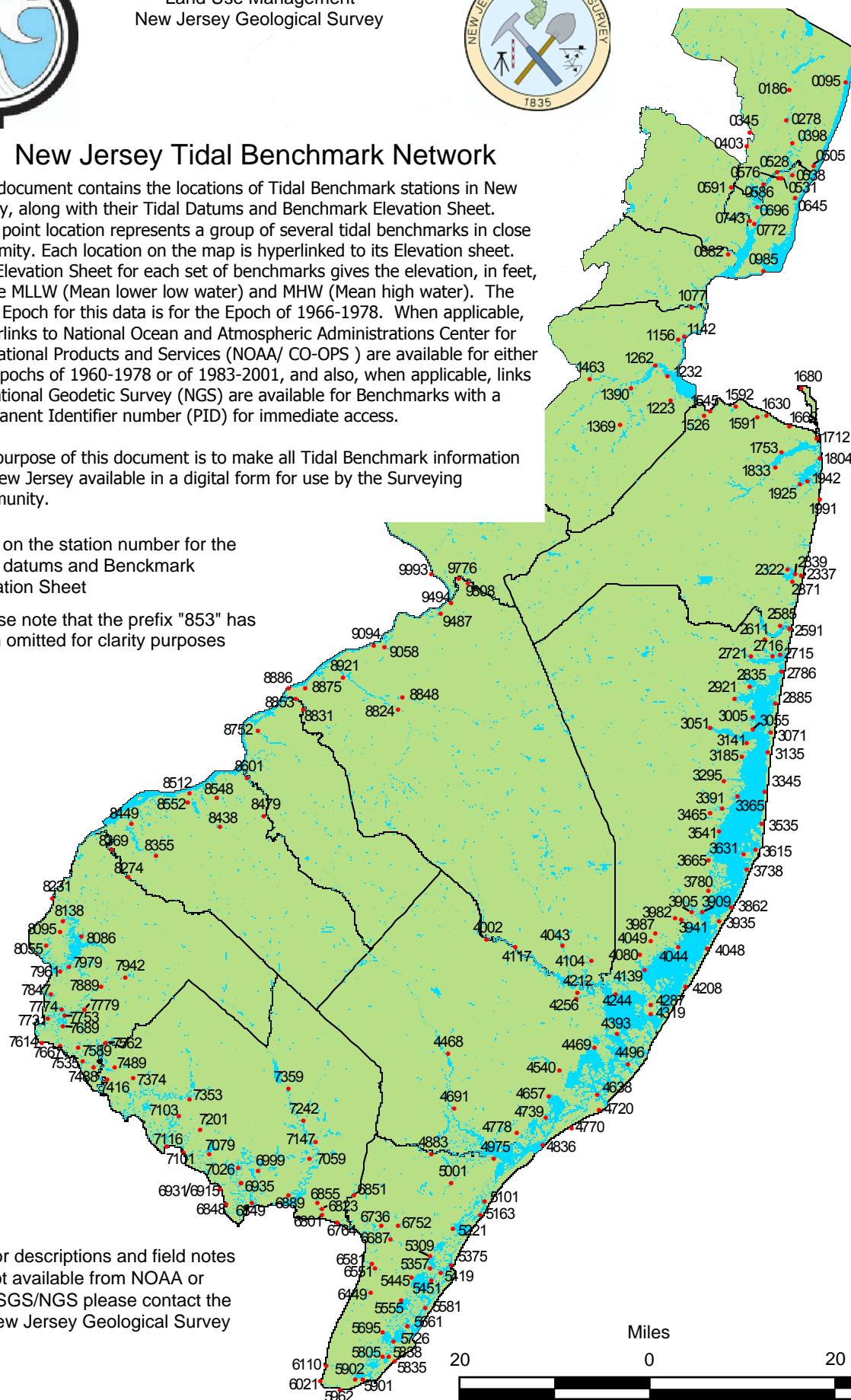
This document contains the locations of Tidal Benchmark stations in New Jersey, along with their Tidal Datums and Benchmark Elevation Sheet. Each point location represents a group of several tidal benchmarks in close proximity. Each location on the map is hyperlinked to its Elevation sheet. The Elevation Sheet for each set of benchmarks gives the elevation, in feet, above MLLW (Mean lower low water) and MHW (Mean high water). The Tidal Epoch for this data is for the Epoch of 1966-1978. When applicable, hyperlinks to National Ocean and Atmospheric Administrations Center for Operational Products and Services (NOAA/ CO-OPS) are available for either the Epochs of 1960-1978 or of 1983-2001, and also, when applicable, links to National Geodetic Survey (NGS) are available for Benchmarks with a Permanent Identifier number (PID) for immediate access.

The purpose of this document is to make all Tidal Benchmark information for New Jersey available in a digital form for use by the Surveying community.

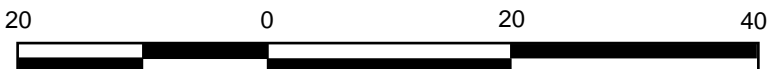
Click on the station number for the
Tidal datums and Benchmark
Elevation Sheet

Please note that the prefix "853" has
been omitted for clarity purposes

For descriptions and field notes
not available from NOAA or
USGS/NGS please contact the
New Jersey Geological Survey



Miles



TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0095 ALPINE; HUDSON RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 3/76 TO 11/76 |
| TIDAL EPOCH | = | 1966-1984 1983-2001 |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.24 FEET |
| MEAN HIGH WATER (MHW) | = | 3.98 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.09 FEET |
| NGVD 1929* | = | 1.28 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400734, 4/74 AND NOS LEVELING OF 1/12/76

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-0095A 1975 | | 9.75 | 5.77 |
| 853-0095B 1975 | | 10.31 | 6.33 |
| NO. 1 1932 | KU1630 | 9.22 | 5.24 |
| NO. 2 1932 | KU1631 | 10.78 | 6.80 |
| NO. 3 1932 | KU1632 | 25.08 | 21.10 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0186 NEW MILFORD, HACKENSACK RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 76/11 TO 76/11 |
| TIDAL EPOCH | = | 1966-1984 1983-2001 NOAA |
| CONTROL STATION | = | 853-0278 HACKENSACK, HACKENSACK RIVER NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.10 FEET |
| MEAN HIGH WATER (MHW) | = | 4.80 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.44 FEET |
| MEAN LOW WATER (MLW) | = | 0.08 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-0186A 1976 | 8.93 | 4.13 |
| 853-0186B 1976 | 12.04 | 7.24 |
| 853-0186C 1976 | 12.11 | 7.31 |
| 853-0186D 1976 | 11.60 | 6.80 |
| 853-0186E 1976 | 13.23 | 8.43 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0278 HACKENSACK, HACKENSACK RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/10 TO 77/9 |
| TIDAL EPOCH | = | 1966 – 1984 1983-2001 NOAA) |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.43 FEET |
| MEAN HIGH WATER (MHW) | = | 6.12 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.19 FEET |
| NGVD 1929* | = | 2.55 FEET |
| MEAN LOW WATER (MLW) | = | 0.27 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400741, 12/82 AND NOS LEVELING OF 9/13/1977

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-0278A 1976 | | 12.29 | 6.17 |
| 853-0278B 1976 | AI8456 | 11.75 | 5.63 |
| 853-0278C 1976 | AI8457 | 18.27 | 12.15 |
| 6840 | KV0493 | 27.06 | 20.94 |
| 800 | KV0492 | 23.81 | 17.69 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0345 GARFIELD, PASSAIC RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 76/8 TO 76/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-0403 EAST RUTHERFORD, PASSAIC RIVER N.J. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.36 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |
| MEAN TIDE LEVEL (MTL) | = | |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> <u>MHW</u> |
|---------------------------|--|
| 853-0345A 1976 | 2.15 |
| 853-0345B 1976 | 7.17 |
| 853-0345C 1976 | 18.35 |
| 853-0345D 1976 | 16.19 |
| 9828 | 19.65 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0398 RIDGEFIELD PARK, HACKENSACK RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.28 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE <u>MHW</u> |
|---------------------------|------------------------|---------------------------------------|
| 853-0398A 1975 | | 5.06 |
| 853-0398B 1975 | | 4.03 |
| 853-0398C 1975 | | 11.59 |
| 853-0398D 1975 | | 13.24 |
| 853-0398E 1975 | | 16.88 |
| G41 1956 | KV0508 | 36.99 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0403 EAST RUTHERFORD, PASSAIC RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/11 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.29 FEET |
| MEAN HIGH WATER (MHW) | = | 5.95 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.10 FEET |
| MEAN LOW WATER (MLW) | = | 0.25 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-0403A 1975 | 12.38 | 6.43 |
| 853-0403B 1975 | 13.32 | 7.37 |
| 853-0403C 1975 | 16.70 | 10.75 |
| 853-0403D 1975 | 12.45 | 6.50 |
| NO. 2 1973 | 16.47 | 10.52 |
| NO. 5 1973 | 13.13 | 7.18 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0505 EDGEWATER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/3 TO 73/11 |
| TIDAL EPOCH | = | 1966–1984 1960-1978 NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.73 FEET |
| MEAN HIGH WATER (MHW) | = | 4.46 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.33 FEET |
| MEAN LOW WATER (MLW) | = | 0.21 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-0505A 1975 | | 11.00 | 6.54 |
| 853-0505B 1975 | | 18.72 | 14.26 |
| 853-0505C 1975 | | 20.68 | 16.22 |
| 853-0505D 1975 | | 20.94 | 16.48 |
| A 40 1956 | KU1652 | 10.75 | 6.29 |
| 1240 | KU1651 | 13.12 | 8.66 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0528, CARLSTADT NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/3 TO 78/7 |
| TIDAL EPOCH | = | 1966–1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851- 8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.03 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| BENCHMARK STAMPING | ELEVATION IN FEET ABOVE |
|----------------------------|-------------------------|
| | <u>MHW</u> |
| U.S.H.L. MON. H.K. 34 1963 | 6.31 |
| 853-0528B 1976 | 3.77 |
| 853-0528C 1977 | 1.60 |
| 853-0528D 1977 | 1.83 |
| 853-0528E 1978 | 25.42 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET
853-0531 NORTH SECAUCUS, HACKENSACK RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 2/80 TO 12/80 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.18 FEET |
| MEAN HIGH WATER (MHW) | = | 5.87 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.06 FEET |
| MEAN LOW WATER (MLW) | = | 0.25 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-0531B 1977 | 7.47 | 1.60 |
| 853-0531C 1977 | 7.19 | 1.32 |
| 853-0576B 1976 | 12.46 | 6.59 |
| 853-0576C 1976 | 12.68 | 6.81 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0538 CROMAKILL CREEK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 9/76 TO 8/77 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.29 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-0538A 1976 | | 6.31 |
| 853-0538C 1976 | | 4.10 |
| 853-0538D 1976 | | 7.90 |
| 853-0538E 1976 | | 3.50 |
| 853-0538F 1976 | | 4.96 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0576 MILL CREEK, HACKENSACK RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 11/76 TO 11/76 |
| TIDAL EPOCH | = | 1966-1984 1960-1978 NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.28 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-0576A 1976 | | 5.62 |
| 853-0576B 1976 | | 6.52 |
| 853-0576C 1976 | | 6.74 |
| 853-0576D 1976 | | 10.85 |
| 853-0576E 1976 | | 7.04 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0586 BERRYS CREEK #8 NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 9/76 – 8/77 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY NY. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.87 FEET |
| MEAN HIGH WATER (MHW) | = | 5.57 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.90 FEET |
| MEAN LOW WATER (MLW) | = | 0.22 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-0586A 1976 | 12.33 | 6.76 |
| 853-0586B 1976 | 10.03 | 4.46 |
| 853-0586C 1976 | 9.55 | 3.98 |
| 853-0586D 1976 | 13.62 | 8.05 |
| 853-0586E 1976 | 14.61 | 9.04 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0591 BELLEVILLE, PASSAIC RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 7/76 TO 6/77 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.08 FEET |
| MEAN HIGH WATER (MHW) | = | 5.75 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.00 FEET |
| NGVD 1929* | = | 2.19 FEET |
| MEAN LOW WATER (MLW) | = | 0.24 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400741, 12/82, AND NOS LEVELING OF 7/8/77

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-0591A 1975 | | 24.70 | 18.95 |
| 853-0591B 1975 | | 30.81 | 25.06 |
| 853-0591C 1975 | | 31.51 | 25.76 |
| 853-0591D 1976 | | 19.66 | 13.91 |
| 853-0591E 1976 | | 13.08 | 7.33 |
| NO. 1253 | | 12.30 | 6.55 |
| W 11 1933 | KV0112 | 50.95 | 45.20 |
| X 11 1933 | KV0114 | 19.91 | 14.16 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0645 UNION CITY, HUDSON RIVER, NJ.

[1960-1978 NOAA](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0696 BELLEVILLE TPK. HACKENSACK RIVER NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 3/76 TO 11/76 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY NY |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.85 FEET |
| MEAN HIGH WATER (MHW) | = | 5.54 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.89 FEET |
| MEAN LOW WATER (MLW) | = | 0.24 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-0696A 1975 | 12.92 | 7.38 |
| 853-0696B 1975 | 7.33 | 1.79 |
| 853-0696C 1976 | 7.88 | 2.34 |
| 853-0696D 1976 | 6.53 | 0.99 |
| 853-0696E 1976 | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0743 POINT NO POINT, PASSAIC RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 76/1 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.81 FEET |
| MEAN HIGH WATER (MHW) | = | 5.49 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.86 FEET |
| NGVD 1929* | = | 2.04 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400741, 12/82, AND NOS LEVELING OF 12/28/76

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-0743A 1975 | | 11.08 | 5.59 |
| 853-0743A 1975 | | 9.67 | 4.18 |
| 853-0743A 1975 | | 10.77 | 5.28 |
| 853-0743A 1975 | | 11.97 | 6.48 |
| NO. 4 1953 | KV0266 | 20.93 | 15.44 |
| C 72 1965 | KV0265 | 14.72 | 9.23 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0772 KEARNY POINT, HACKENSACK RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/ 3 TO 76//11 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.78 FEET |
| MEAN HIGH WATER (MHW) | = | 5.46 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.85 FEET |
| NGVD 1929* | = | 2.08 FEET |
| MEAN LOW WATER (MLW) | = | 0.24 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400741, 2/82 AND NOS LEVELING OF 3/3/76

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-0772A 1976 | | 8.33 | 2.87 |
| 853-0772B 1976 | | 10.05 | 4.59 |
| 853-0772C 1976 | | 10.60 | 5.14 |
| W 16 1934 | KV0269 | 20.22 | 14.76 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0882 PORT ELIZABETH, NEWARK BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 36 MONTHS |
| TIME PERIOD | = | 79/1 TO 81/12 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.66 FEET |
| MEAN HIGH WATER (MHW) | = | 5.33 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.78 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-0882A 1976 | 11.66 | 6.33 |
| 853-0882B 1976 | 16.72 | 11.39 |
| 853-0882C 1976 | 13.57 | 8.24 |
| 853-0882D 1976 | 13.91 | 8.58 |
| 853-0882E 1976 | 13.88 | 8.55 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-0985 CONSTABLE HOOK, UPPER BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1960-1978) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.19 FEET |
| MEAN HIGH WATER (MHW) | = | 4.86 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.54 FEET |
| NGVD 1929* | = | 1.80 FEET |
| MEAN LOW WATER (MLW) | = | 0.22 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400471, 12/82, AND NOS LEVELING OF 5/19/80

BENCH MARK ELEVATION INFORMATION

ELEVATION IN FEET ABOVE

| <u>BENCHMARK STAMPING</u> | <u>NGS PID #</u> | <u>MLLW</u> | <u>MHW</u> |
|---------------------------|------------------------|-------------|------------|
| NO. 3 1932 | KV0609 | 11.63 | 6.77 |
| NO. 4 1949 | KV0610 | 11.65 | 6.79 |
| NO. 5 1949 | KV0613 | 11.05 | 6.19 |
| NO. 6 1951 | KV0611 | 10.59 | 5.73 |
| NO STAMPING 1 | | 10.14 | 5.28 |
| 853-0985F 1976 | | 10.48 | 5.62 |
| 853-0985I 1976 | | 10.81 | 5.95 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1077 RAHWAY RIVER #1 NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.91 FEET |
| MEAN HIGH WATER (MHW) | = | 5.56 FEET |
| NGVD 1929* | = | 2.90 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-1077A 1975 | 16.08 | 10.52 |
| 853-1077B 1975 | 16.56 | 11.00 |
| 853-1077C 1975 | 15.65 | 10.09 |
| 853-1077D 1975 | 13.69 | 8.13 |
| 853-1077E 1975 | 26.26 | 20.70 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1142 PORT READING, ARTHUR KILL RIVER, NJ.

[1983-2001](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1156 WOODBRIDGE CREEK #1 NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 76/1 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.68 FEET |
| MEAN HIGH WATER (MHW) | = | 5.37 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.78 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1156A 1975 | | 14.99 | 9.62 |
| 853-1156B 1975 | | 18.48 | 13.11 |
| 853-1156C 1975 | | 15.01 | 9.64 |
| 853-1156D 1975 | | 26.13 | 20.76 |
| 853-1156E 1975 | | 35.01 | 29.64 |
| D 37 1952 | KV0199 | 42.37 | 37.00 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1223 CHEESEQUAKE CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 76/2 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.63 FEET |
| MEAN HIGH WATER (MHW) | = | 5.31 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.77 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-1223A 1975 | 16.64 | 11.33 |
| 853-1223B 1975 | 35.01 | 29.70 |
| 853-1223C 1975 | 55.72 | 50.41 |
| 853-1223D 1975 | 64.94 | 59.63 |
| 853-1223E 1975 | 68.09 | 62.78 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1232 SOUTH AMBOY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 3/76 TO 11/76 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.67 FEET |
| MEAN HIGH WATER (MHW) | = | 5.33 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.78 FEET |
| NGVD 1929* | = | 2.04 FEET |
| MEAN LOW WATER (MLW) | = | 0.22 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD400742, 1/83, AND NOS LEVELING OF 8/12/76

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1232A 1976 | | 11.19 | 5.86 |
| 853-1232B 1976 | KV3518 | 12.07 | 6.74 |
| NO. 1 1934 | KV0787 | 12.66 | 7.33 |
| NO. 3 1934 | KV0784 | 12.81 | 7.48 |
| W 70 1964 | KV0783 | 13.11 | 7.78 |
| Q 73 1974 | KV0791 | 14.89 | 9.56 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1262 KEASBEY, RARITAN RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 76/4 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.74 FEET |
| MEAN HIGH WATER (MHW) | = | 5.40 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.81 FEET |
| MEAN LOW WATER (MLW) | = | 0.22 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-1262A 1976 | 13.11 | 7.71 |
| 853-1262B 1976 | 15.42 | 10.02 |
| 853-1262C 1976 | 20.85 | 15.45 |
| 853-1262D 1976 | 39.04 | 33.64 |
| 853-1262E 1976 | 44.90 | 39.50 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1369 NORTH OLD BRIDGE, SOUTH RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.20 FEET |
| MEAN HIGH WATER (MHW) | = | 5.86 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.05 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1369A 1975 | | 9.15 | 3.29 |
| 853-1369B 1975 | | 13.44 | 7.58 |
| 853-1369C 1975 | | 12.45 | 6.59 |
| 853-1369D 1975 | | 14.32 | 8.46 |
| H 73 1974 | KV0965 | 13.36 | 7.50 |
| J 73 1974 | KV0966 | 26.63 | 20.77 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1390 SAYREVILLE, RARITAN RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 76/4 TO 77/3 |
| TIDAL EPOCH | = | 1966 – 1984 (1960-1978) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.96 FEET |
| MEAN HIGH WATER (MHW) | = | 5.62 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.93 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1390A 1976 | | 11.08 | 5.46 |
| 853-1390B 1976 | | 10.99 | 5.37 |
| 853-1390C 1976 | | 9.71 | 4.09 |
| 853-1390D 1976 | | 9.49 | 3.87 |
| NO. 1 | KV5397 | 12.37 | 6.75 |
| N 53 1961 | KV0923 | 15.54 | 9.92 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1463 NEW BRUNSWICK, RARITAN RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1960-1978) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.24 FEET |
| MEAN HIGH WATER (MHW) | = | 5.90 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.06 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1463A 1975 | | 27.16 | 21.26 |
| 853-1463A 1975 | | 33.88 | 27.98 |
| 853-1463A 1975 | | 40.82 | 34.92 |
| NO. 1 | KV0936 | 8.92 | 3.02 |
| NO. 2 | KV0937 | 8.95 | 3.05 |
| CANAL 1932 | KV0935 | 8.97 | 3.07 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1526 MATAWAN CREEK, RARITAN BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 3/77 TO 3/77 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 852-1545 KEYPORT RARITAN BAY NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.62 FEET |
| MEAN HIGH WATER (MHW) | = | 5.27 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.76 FEET |
| NGVD 1929* | = | 1.82 FEET |
| MEAN LOW WATER (MLW) | = | 0.25 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400742, 1/83, AND NOS LEVELING OF 11/2/76.

BENCHMARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1526A 1976 | | 6.13 | 0.86 |
| 853-1526B 1976 | KV3514 | 25.07 | 19.80 |
| 853-1526C 1976 | | 12.58 | 7.31 |
| 853-1526D 1976 | | 14.81 | 9.54 |
| U 36 1952 | KV0765 | 24.72 | 19.45 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1545 KEYPORT, RARITAN BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.57 FEET |
| MEAN HIGH WATER (MHW) | = | 5.23 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.72 FEET |
| NGVD 1929* | = | 1.92 FEET |
| MEAN LOW WATER (MLW) | = | 0.21 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400742, 1/83, AND NOS LEVELING OF 4/13/77

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1545A 1975 | | 24.78 | 19.55 |
| 853-1545B 1975 | AI8467 | 18.31 | 13.08 |
| 853-1545C 1975 | AI8468 | 10.71 | 5.48 |
| U 53 1961 | KV0756 | 20.45 | 15.22 |
| NO. 2 1934 | KV0754 | 20.34 | 15.11 |
| P 36 1965 | KV0748 | 12.27 | 7.04 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1591 PEWS CREEK, SANDY HOOK BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 77/3 TO 77/3 |
| TIDAL EPOCH | = | 1966 – 1984 (1960-1978) NOAA |
| CONTROL STATION | = | 853-1545 KEYPORT, RARITAN BAY NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.33 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> <u>MHW</u> |
|---------------------------|--|
| 853-1591A 1976 | 5.04 |
| 853-1591B 1976 | 1.09 |
| 853-1591C 1976 | 2.59 |
| 853-1591D 1976 | 2.70 |
| 853-1591E 1976 | 2.96 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1592 WAACKAACK CREEK, RARITAN BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 77/3 TO 77/5 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-1545 KEYPORT RARITAN BAY, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.12 FEET |
| MEAN HIGH WATER (MHW) | = | 4.79 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.47 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD, AND NOS LEVELING OF
BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1592A 1976 | | 7.18 | 2.39 |
| 853-1592B 1976 | | 11.27 | 6.48 |
| NO. 5 1934 | KV0735 | 11.50 | 6.71 |
| NO. 4 1943 RESET 1952 | KV0736 | 9.94 | 5.15 |
| U 70 1964 | KV0734 | 10.19 | 5.40 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1630 COMPTON CREEK, SANDY HOOK BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 77/3 TO 77/3 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-1545 KEYPORT RARITAN BAY NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.33 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> <u>MLLW</u> | <u>MHW</u> |
|---------------------------|---|------------|
| 853-1630A 1976 | | 7.28 |
| 853-1630B 1976 | | 4.64 |
| 853-1630C 1976 | | 6.61 |
| 853-1630D 1976 | | 4.17 |
| 853-1630E 1976 | | 7.06 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1662 ATLANTIC HIGHLANDS, SANDY HOOK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|------------------------------------|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 77/3 TO 77/6 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-1545 KEYPORT, RARITAN BAY, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.27 FEET |
| MEAN HIGH WATER (MHW) | = | 4.93 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.57 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1662A 1976 | KV6238 | 11.05 | 6.12 |
| 853-1662B 1976 | KV6239 | 16.68 | 11.75 |
| 853-1662C 1976 | KV6240 | 16.11 | 11.18 |
| 853-1662D 1976 | KV6241 | 18.84 | 13.91 |
| H1 1914 13.658 | KV0724 | 15.41 | 10.48 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1680 SANDY HOOK NJ.

NOAA
[1983-2001](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET
853-1712 HIGHLANDS BRIDGE, SHREWSBURY RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 1960-1978 NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.69 FEET |
| MEAN HIGH WATER (MHW) | = | 4.38 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.28 FEET |
| NGVD 1929* | = | 1.52 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400733, 7/74, AND NOS LEVELING OF 9/28/76

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1712A 1976 | | 13.94 | 9.56 |
| 853-1712B 1976 | | 8.88 | 4.50 |
| 853-1712C 1976 | | | |
| NO. 6 1934 | KU0845 | 14.24 | 9.86 |
| 6267 | KU0846 | 46.78 | 42.40 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1753 OCEANIC, NAVESINK RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/12 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.81 FEET |
| MEAN HIGH WATER (MHW) | = | 3.53 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.82 FEET |
| MEAN LOW WATER (MLW) | = | 0.11 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1753A 1976 | | 11.69 | 8.16 |
| 853-1753B 1976 | | 15.46 | 11.93 |
| 853-1753C 1976 | | 26.79 | 23.26 |
| 15265 | KV0874 | 33.64 | 30.11 |
| NO. 1 1934 | KU0856 | 7.81 | 4.28 |
| NO. 3 1934 | KV0873 | 14.11 | 10.58 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1804 SEABRIGHT, SHREWSBURY RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/12 |
| TIDAL EPOCH | = | 1966 – 1984 (1960-1978) NOAA |
| CONTROL STATION | = | 851-8750 THE BATTERY N.Y. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.59 FEET |
| MEAN HIGH WATER (MHW) | = | 3.31 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.74 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1804A 1976 | | 7.36 | 4.05 |
| 853-1804B 1976 | | 6.77 | 3.46 |
| 853-1804C 1976 | AI8472 | 8.27 | 4.96 |
| 853-1804D 1976 | AI8471 | 5.86 | 2.55 |
| J 5 RESET 1950 | KU0784 | 15.42 | 12.11 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1833 RED BANK, NAVESINK RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 76/3 TO 77/2 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.93 FEET |
| MEAN HIGH WATER (MHW) | = | 3.62 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.87 FEET |
| NGVD 1929* | = | 0.80 FEET |
| MEAN LOW WATER (MLW) | = | 0.12 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400742, 1/83, AND NOS LEVELING OF 9/23/76

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1833A 1976 | | 7.21 | 3.59 |
| 853-1833B 1976 | | 19.54 | 15.92 |
| 853-1833C 1976 | | 37.33 | 33.71 |
| NO. 3 1934 | KV0878 | 32.96 | 29.34 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1925 GOOSENECK BRIDGE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 76/4 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 (1960-1978) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.98 FEET |
| MEAN HIGH WATER (MHW) | = | 2.73 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.44 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-1925D 1976 | | 5.41 | 2.68 |
| 853-1925E 1976 | | 5.37 | 2.64 |
| 853-1925F 1976 | | 4.40 | 1.67 |
| 853-1925G 1976 | | 16.03 | 13.30 |
| 853-1925H 1976 | | 8.02 | 5.29 |
| BLUFF 1934 | KV0895 | 9.78 | 7.05 |
| NJC&N NO. 1 | | 6.24 | 3.51 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1942 LONG BRANCH, INSIDE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 76/5 TO 77/4 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.95 FEET |
| MEAN HIGH WATER (MHW) | = | 2.70 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.41 FEET |
| MEAN LOW WATER (MLW) | = | 0.13 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-1942A 1976 | 5.38 | 2.68 |
| 853-1942B 1976 | 8.34 | 5.64 |
| 853-1942C 1976 | 9.42 | 6.72 |
| 853-1942D 1976 | 10.01 | 7.31 |
| 853-1942E 1976 | 8.84 | 6.14 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-1991 LONG BRANCH FISHING PIER NJ.

[1983-2001](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2322 SHARK RIVER HILLS, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 12 MONTHS |
| TIME PERIOD | = | 76/4 TO |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.95 FEET |
| MEAN HIGH WATER (MHW) | = | 4.59 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.39 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-2322A 1976 | | 8.59 | 4.00 |
| 853-2322B 1976 | | 6.77 | 2.18 |
| 853-2322C 1976 | | 7.47 | 2.88 |
| 853-2322D 1976 | AA5232 | 9.86 | 5.27 |
| 853-2322E 1976 | | 7.34 | 2.75 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2337 BELMAR OUTSIDE NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 6 MONTHS |
| TIME PERIOD | = | 3/77 TO 8/77 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.95 FEET |
| MEAN HIGH WATER (MHW) | = | 4.61 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.38 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-2337A 1976 | KV6254 | 17.87 | 13.26 |
| 853-2337B 1976 | KV6255 | 15.11 | 10.50 |
| 853-2337C 1976 | KV6256 | 14.42 | 9.81 |
| BELMAR 1962 | KV0806 | 17.27 | 12.66 |
| BELMAR NO. 1 1962 | KV0805 | 16.45 | 11.84 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2339 AVON, SHARK RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 9/76 TO 7/77 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-1680 SNADY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.83 FEET |
| MEAN HIGH WATER (MHW) | = | 4.49 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.32 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-2339A 1976 | KV6260 | 8.37 | 3.88 |
| 853-2339B 1976 | | 17.77 | 13.28 |
| 853-2339C 1976 | KV6259 | 21.55 | 17.06 |
| 853-2339D 1976 | KV6257 | 14.43 | 9.94 |
| L 54 1961 | KV0803 | 15.48 | 10.99 |
| IN NO. 2 1933 | KV0812 | 21.51 | 17.02 |
| IN 1933 | KV0811 | 18.81 | 14.32 |
| IN NO. 1 1933 | KV0810 | 18.68 | 14.19 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2371 WALL TOWNSHIP, SHARK RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 5/76 TO 11/76 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.98 FEET |
| MEAN HIGH WATER (MHW) | = | 4.62 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.41 FEET |
| MEAN LOW WATER (MLW) | = | 0.21 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-2371A 1976 | KV6268 | 17.25 | 12.63 |
| 853-2371B 1976 | KV6267 | 21.18 | 16.56 |
| 853-2371C 1976 | KV6266 | 9.70 | 5.08 |
| 853-2371D 1976 | KV6264 | 20.16 | 15.54 |
| 853-2371E 1976 | KV6265 | 25.03 | 20.41 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2585 POINT PLEASANT BEACH, MANASQUAN RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 76/3 TO 76/12 |
| TIDAL EPOCH | = | 1966 – 1984 (1960-1978) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.37 FEET |
| MEAN HIGH WATER (MHW) | = | 4.03 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.10 FEET |
| MEAN LOW WATER (MLW) | = | 0.17 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-2585A 1976 | AI8477 | 8.69 | 4.66 |
| 853-2585B 1976 | AI8478 | 10.95 | 6.92 |
| 853-2585C 1976 | AI8479 | 12.60 | 8.57 |
| 853-2585D 1976 | AI8481 | 26.01 | 21.98 |
| 9226B | AI8475 | 43.06 | 39.03 |
| NJGC 9226A | AI8474 | 20.39 | 16.36 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2591 MANASQUAN INLET NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 24 MONTHS |
| TIME PERIOD | = | 82/10 TO 84/9 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.53 FEET |
| MEAN HIGH WATER (MHW) | = | 4.19 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.19 FEET |
| NGVD 1929* | = | 1.36 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 400742, 1/83, AND NOS LEVELING OF 11/30/84

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| NO. 4 1936 | KV0832 | 9.42 | 5.23 |
| NO. 5 1936 | KV0836 | 10.61 | 6.42 |
| MAN 1962 | KV0835 | 9.54 | 5.35 |
| MAN NO. 1 1962 | KV0834 | 9.04 | 4.85 |
| M 54 RESET 1976 | KV3525 | 10.96 | 6.77 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2611 RIVIERA BEACH, MANASQUAN RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 76/4 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.85 FEET |
| MEAN HIGH WATER (MHW) | = | 3.52 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.83 FEET |
| MEAN LOW WATER (MLW) | = | 0.13 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-2611A 1976 | 12.20 | 8.68 |
| 853-2611B 1976 | 20.82 | 17.30 |
| 853-2611C 1976 | 16.41 | 12.89 |
| 853-2611D 1976 | 17.50 | 13.98 |
| 853-2611E 1976 | 21.47 | 17.95 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2703 FORGE POND, METEDECONK RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 76/11 TO 76/12 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-2721 TALL PINES CAMP, METEDECONK RIVER, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.54 FEET |
| MEAN HIGH WATER (MHW) | = | 0.38 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.23 FEET |
| MEAN LOW WATER (MLW) | = | 0.07 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-2703A 1976 | 4.91 | 4.53 |
| 853-2703B 1976 | 7.64 | 7.26 |
| 853-2703C 1976 | 8.73 | 8.35 |
| 853-2703D 1976 | 11.21 | 10.83 |
| 853-2703E 1976 | 9.15 | 8.77 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2715 BEAVER DAM CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/5 TO 77/4 |
| TIDAL EPOCH | = | 1966 – 1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.53 FEET |
| MEAN HIGH WATER (MHW) | = | 0.38 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.23 FEET |
| MEAN LOW WATER (MLW) | = | 0.09 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-2715A 1976 | 2.06 | 1.68 |
| 853-2715B 1976 | 2.78 | 2.40 |
| 853-2715C 1976 | 2.26 | 1.88 |
| 853-2715D 1976 | 3.02 | 2.64 |
| 853-2715E 1976 | 2.98 | 2.60 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2716 BEAVER DAM CREEK, INSIDE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 77/4 TO 77/7 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855.7380 LEWES, FT. MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.50 FEET |
| MEAN HIGH WATER (MHW) | = | 0.38 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.24 FEET |
| MEAN LOW WATER (MLW) | = | 0.09 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-2716A 1976 | 4.56 | 4.18 |
| 853-2716B 1976 | 3.40 | 3.02 |
| 853-2716C 1976 | 4.27 | 3.89 |
| 853-2716D 1976 | 5.70 | 5.32 |
| 853-2716E 1976 | 7.25 | 6.87 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2721 TALL PINES CAMP, METEDECONK RIVER, N.J.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 76/6 TO 77/5 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-7380 LEWES, FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.53 FEET |
| MEAN HIGH WATER (MHW) | = | 0.37 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.22 FEET |
| MEAN LOW WATER (MLW) | = | 0.07 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-2721D 1976 | | 7.28 | 6.91 |
| 853-2721E 1976 | | 6.90 | 6.53 |
| 853-2721F 1976 | | 8.36 | 7.99 |
| 853-2721G 1976 | | 15.38 | 15.01 |
| NO. 5 RESET 1973 | KV0848 | 20.10 | 19.73 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2786 MANTOLOKING, BARNEGAT BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 15 MONTHS |
| TIME PERIOD | = | 76/4 TO 77/6 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0 56 FEET |
| MEAN HIGH WATER (MHW) | = | 0.43 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.26 FEET |
| MEAN LOW WATER (MLW) | = | 0.09 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |
| NGVD 1929* | = | -1.01FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390741, 3/82, AND NOS LEVELING OF 11/19/76

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-2786F 1976 | AI8482 | 1.11 | 0.68 |
| 853-2786G 1976 | AI8483 | 2.65 | 2.22 |
| 853-2786H 1976 | AI8484 | 3.08 | 2.65 |
| MANTOLOKING 1932 | KV0860 | 4.05 | 3.62 |
| MANTOLOKING NO. 1 1932 | KV0859 | 3.82 | 3.39 |
| MANTOLOKING NO. 2 1932 | KV0864 | 7.36 | 6.93 |
| MANTOLOKING NO. 3 1932 | KV0861 | 3.03 | 2.60 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2835 KETTLE CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/6 TO 77/5 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.59 FEET |
| MEAN HIGH WATER (MHW) | = | 0.45 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.26 FEET |
| MEAN LOW WATER (MLW) | = | 0.07 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-2835A 1976 | 3.73 | 3.28 |
| 853-2835B 1976 | 3.77 | 3.32 |
| 853-2835C 1976 | 3.83 | 3.38 |
| 853-2835D 1976 | 4.26 | 3.81 |
| 853-2835E 1976 | 4.03 | 3.58 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2885 OCEAN BEACH, BARNEGAT BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/6 TO 77/5 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|------------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.58 FEET |
| MEAN HIGH WATER (MHW) | = | 0.44 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.26 FEET |
| MEAN LOW WATER (MLW) | = | 0.07 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |
| NGVD 1929* | = | -0.98 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD390741, 1/83 AND NOS LEVELING OF 11/18/76

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-2885A 1976 | | 2.83 | 2.39 |
| 853-2885B 1976 | | 2.39 | 1.95 |
| 853-2885C 1976 | | 2.40 | 1.96 |
| E 69 1964 | JU0005 | 3.42 | 2.98 |
| CHADWICK 2 1962 | JU0003 | 2.13 | 1.69 |
| CHADWICK 2 NO. 1 1962 | | 2.90 | 2.46 |
| CHADWICK 2 RM 5 1962 | JU0002 | 2.66 | 2.22 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-2921 SILVER BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 76/6 TO 77/5 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.58 FEET |
| MEAN HIGH WATER (MHW) | = | 0.45 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.26 FEET |
| MEAN LOW WATER (MLW) | = | 0.08 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-2921A 1976 | 3.95 | 3.50 |
| 853-2921B 1976 | 2.75 | 2.30 |
| 853-2921C 1976 | 5.87 | 5.42 |
| 853-2921D 1976 | 7.49 | 7.04 |
| 853-2921E 1976 | 6.81 | 6.36 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3005 GOOSE CREEK, BARNEGAT BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/5 TO 77/4 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.55 FEET |
| MEAN HIGH WATER (MHW) | = | 0.42 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.24 FEET |
| MEAN LOW WATER (MLW) | = | 0.07 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3005A 1976 | 2.44 | 2.02 |
| 853-3005B 1976 | 2.64 | 2.22 |
| 853-3005C 1976 | 3.58 | 3.16 |
| 853-3005D 1976 | 2.88 | 2.46 |
| 853-3005E 1976 | 4.60 | 4.18 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3051 TOMS RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 6/76 TO 5/77 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.59 FEET |
| MEAN HIGH WATER (MHW) | = | 0.47 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.27 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3051D 1976 | JU2449 | 2.58 | 2.11 |
| 853-3051E 1976 | JU2450 | 7.16 | 6.69 |
| V 68 1964 | JU0033 | 34.22 | 33.75 |
| U 68 1964 | JU0034 | 24.82 | 24.35 |
| R 68 1964 | JU0032 | 25.39 | 24.92 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3055 COATES POINT, BARNEGAT BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 77/6 TO 77/11 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.54 FEET |
| MEAN HIGH WATER (MHW) | = | 0.42 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.24 FEET |
| MEAN LOW WATER (MLW) | = | 0.05 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3055D 1976 | | 2.82 | 2.40 |
| 853-3055E 1976 | | 4.31 | 3.89 |
| 853-3055F 1976 | | 4.47 | 4.05 |
| NO. 4 1967 | | 6.35 | 5.93 |
| Z68 1964 | JU0027 | 11.08 | 10.66 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3071 SEASIDE HEIGHTS, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 77/4 TO 77/10 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE.. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.86 FEET |
| MEAN HIGH WATER (MHW) | = | 4.45 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.31 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3071A 1976 | AI7805 | 16.48 | 12.03 |
| 853-3071B 1976 | | 10.28 | 5.83 |
| 853-3071C 1976 | AI7806 | 11.43 | 6.98 |
| B 69 1964 | JU0016 | 8.75 | 4.30 |
| S 68 1964 | JU0014 | 7.57 | 3.12 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3135 SEASIDE PARK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/7 TO 77/6 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE.. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.54 FEET |
| MEAN HIGH WATER (MHW) | = | 0.43 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.24 FEET |
| MEAN LOW WATER (MLW) | = | 0.05 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3135A 1976 | AI7808 | 2.10 | 1.67 |
| 853-3135B 1976 | AI7809 | 2.12 | 1.69 |
| 853-3135C 1976 | AI7810 | 2.07 | 1.64 |
| SEASIDE PARK NO. 4 1932 | JU0019 | 3.53 | 3.10 |
| SEASIDE PARK NO. 1 1932 | JU0020 | 4.79 | 4.36 |
| J 6 1930 6.014 | | 4.80 | 4.37 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3141 BARNEGAT PIER, BARNEGAT BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 77/4 TO 77/10 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.51 FEET |
| MEAN HIGH WATER (MHW) | = | 0.40 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.22 FEET |
| MEAN LOW WATER (MLW) | = | 0.05 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3141D 1976 | | 3.55 | 3.15 |
| 853-3141E 1976 | | 2.33 | 1.93 |
| 853-3141F 1976 | | 1.66 | 1.26 |
| 853-3141G 1976 | | 3.71 | 3.31 |
| NO. 1 1936 | | 4.76 | 4.36 |
| L 68 1964 | JU0044 | 3.01 | 2.61 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3185 SLOOP CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 77/4 TO 77/6 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.47 FEET |
| MEAN HIGH WATER (MHW) | = | 0.38 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.21 FEET |
| MEAN LOW WATER (MLW) | = | 0.04 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3185A 1976 | 1.67 | 1.29 |
| 853-3185B 1976 | 0.78 | 0.40 |
| 853-3185C 1976 | 1.60 | 1.22 |
| 853-3185D 1976 | 0.88 | 0.50 |
| 853-3185E 1976 | 2.97 | 2.59 |
| 853-3185F 1976 | | |
| 853-3185G 1976 | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3295 CEDAR CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/7 TO 77/6 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE.. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.50 FEET |
| MEAN HIGH WATER (MHW) | = | 0.40 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.22 FEET |
| MEAN LOW WATER (MLW) | = | 0.05 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3295A 1976 | | 2.57 | 2.17 |
| 853-3295B 1976 | | 2.02 | 1.62 |
| 853-3295C 1976 | | 5.59 | 5.19 |
| 853-3295D 1976 | | 5.48 | 5.08 |
| 853-3295E 1976 | | 5.94 | 5.54 |
| H 68 | JU0051 | 3.02 | 2.62 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3345 ISLAND BEACH, BARNEGAT BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 5 MONTHS |
| TIME PERIOD | = | 76/7 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE.. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.49 FEET |
| MEAN HIGH WATER (MHW) | = | 0.40 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.23 FEET |
| MEAN LOW WATER (MLW) | = | 0.05 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3345A 1976 | 4.27 | 3.87 |
| 853-3345B 1976 | 3.77 | 3.37 |
| 853-3345C 1976 | 6.58 | 6.18 |
| 853-3345D 1976 | 5.44 | 5.04 |
| 853-3345E 1976 | 4.23 | 3.83 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3365 STOUTS CREEK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 11/76 TO 11/76 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.44 FEET |
| MEAN HIGH WATER (MHW) | = | 0.33 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.19 FEET |
| MEAN LOW WATER (MLW) | = | 0.05 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3365A 1976 | 3.15 | 2.82 |
| 853-3365B 1976 | 3.60 | 3.27 |
| 853-3365C 1976 | 3.37 | 3.04 |
| 853-3365D 1976 | 2.59 | 2.26 |
| 853-3365E 1976 | 3.67 | 3.34 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3391 FORKED RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 76/7 TO 76/8 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.43 FEET |
| MEAN HIGH WATER (MHW) | = | 0.38 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.22 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3391A 1976 | 2.79 | 2.41 |
| 853-3391B 1976 | 2.19 | 1.81 |
| 853-3391C 1976 | 4.89 | 4.51 |
| 853-3391D 1976 | 5.03 | 4.65 |
| 853-3391E 1976 | 4.76 | 4.38 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3465 OYSTER CREEK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 7/76 TO 6/77 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.42 FEET |
| MEAN HIGH WATER (MHW) | = | 0.33 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.19 FEET |
| MEAN LOW WATER (MLW) | = | 0.04 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3465 A 1976 | | 1.97 | 1.64 |
| 853-3465 B 1976 | | | |
| 853-3465 C 1976 | | 9.04 | 8.71 |
| 853-3465 D 1976 | | 10.51 | 10.18 |
| 853-3465 E 1976 | JU2445 | 5.58 | 5.25 |
| 853-3465 F 1976 | | 10.64 | 10.31 |
| B 68 1964 | JU0061 | 14.09 | 13.76 |
| C 68 1964 | JU0059 | | |
| T 6 1930 8.051 | JU0060 | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3535 ISLAND BEACH, SEDGE ISLANDS, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 76/11 TO 76/11 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE.. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.54 FEET |
| MEAN HIGH WATER (MHW) | = | 0.40 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.23 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3535A 1976 | | 2.32 | 1.92 |
| 853-3535B 1976 | | 6.21 | 5.81 |
| 853-3535C 1976 | | 6.77 | 6.37 |
| FORKED RIVER 2 1962 | JU2627 | 11.11 | 10.71 |
| FORKED RIVER 2 NO. 4 1962 | | 6.93 | 6.53 |

CAUTION; NOT PUBLISHABLE BY NOS STANDARDS, DUE TO EITHER EXCESSIVE STAFF MOVEMENT, OR THE DATA COLLECTED WAS NOT BRACKETED BY LEVELS TO ENSURE STAFF STABILITY.

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3541 WARETOWN, BARNEGAT BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 6/80 TO 5/81 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.50 FEET |
| MEAN HIGH WATER (MHW) | = | 0.40 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.23 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3541D 1976 | AI9351 | 3.86 | 3.46 |
| 853-3541E 1976 | | 5.00 | 4.60 |
| 853-3541F 1976 | | 4.98 | 4.58 |
| 3 F 1936 | | 5.31 | 4.91 |
| V 6 1930 | JU0063 | 14.10 | 13.70 |
| A 68 1964 | JU0062 | 10.92 | 10.52 |
| V 54 1961 | JU0065 | 2.89 | 2.49 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3615 BARNEGAT INLET, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 84/10 TO 85/9 |
| TIDAL EPOCH | = | 1966 – 1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|------------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.11 FEET |
| MEAN HIGH WATER (MHW) | = | 1.92 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.01 FEET |
| MEAN LOW WATER (MLW) | = | 0.11 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |
| *NGVD 1929 | = | -0.15 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390741, 3/82, AND NOS LEVELING OF 10/5/85

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|----------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3615A 1976 | | | |
| 853-3615B 1976 | | 4.78 | 2.86 |
| 853-3615C 1976 | | 5.03 | 3.11 |
| BARNEGAT LIGHT RM NO. 4 | JU0178 | 7.30 | 5.38 |
| BARNEGAT LIGHT 3 1962 1980 | JU2475 | 5.28 | 3.36 |
| BARNEGAT LIGHT RM NO. 6 | JU0180 | 8.38 | 6.46 |
| RM 7 1980 | JU2476 | 7.33 | 5.41 |
| Q 67 | JU0176 | 7.39 | 5.47 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3631 HIGH BAR, BARNEGAT BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 77/5 TO 77/7 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE.. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.70 FEET |
| MEAN HIGH WATER (MHW) | = | 0.65 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.38 FEET |
| MEAN LOW WATER (MLW) | = | 0.11 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3631A 1976 | 4.28 | 3.63 |
| 853-3631B 1976 | 4.26 | 3.61 |
| 853-3631C 1976 | 3.23 | 2.58 |
| 853-3631D 1976 | 3.65 | 3.00 |
| 853-3631E 1976 | 4.94 | 4.29 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3665 DOUBLE CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 76/11 TO 77/2 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE.. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.49 FEET |
| MEAN HIGH WATER (MHW) | = | 0.33 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.18 FEET |
| MEAN LOW WATER (MLW) | = | 0.02 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3665A 1976 | 2.12 | 1.79 |
| 853-3665B 1976 | 2.29 | 1.96 |
| 853-3665C 1976 | 2.74 | 2.41 |
| 853-3665D 1976 | 2.90 | 2.57 |
| 853-3665E 1976 | 4.00 | 3.67 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3738 LOVELADIES NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/9 TO 77/8 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE.. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.65 FEET |
| MEAN HIGH WATER (MHW) | = | 0.52 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.29 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3738A 1976 | | 3.64 | 3.12 |
| 853-3738B 1976 | | 3.01 | 2.49 |
| 853-3738C 1976 | | 3.65 | 3.13 |
| LOVELADIES 1932 | JU0171 | 4.83 | 4.31 |
| LOVELADIES NO. 5 1932 | | 4.70 | 4.18 |
| R 67 1964 | JU0167 | 2.92 | 2.40 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3780 FLAT CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 76/11 TO 76/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 1.06 FEET |
| MEAN HIGH WATER (MHW) | = | 0.90 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.48 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3780A 1976 | 2.80 | 1.90 |
| 853-3780B 1976 | 1.84 | 0.94 |
| 853-3780C 1976 | 1.59 | 0.69 |
| 853-3780D 1976 | 5.64 | 4.74 |
| 853-3780E 1976 | 7.15 | 6.25 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3862 NORTH BEACH, MANAHAWKIN BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 76/9 TO 76/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-3935 MANAHAWKIN DRAWBRIDGE NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 1.25 FEET |
| MEAN HIGH WATER (MHW) | = | 1.08 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.57 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3862A 1976 | | 3.75 | 2.67 |
| 853-3862B 1976 | | 5.30 | 4.22 |
| 853-3862C 1976 | | 5.43 | 4.35 |
| D 67 1964 | JU0150 | 5.15 | 4.07 |
| SURF 1932 | | 5.39 | 4.31 |
| SURF NO.2 1932 | JU0146 | 6.05 | 4.97 |
| P 7 1930 6.716 | JU0147 | 6.06 | 4.98 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3905 MILL CREEK, MANAHAWKIN BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 77/5 TO 77/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-3909 MANAHAWKIN CREEK, N.J. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 1.88 FEET |
| MEAN HIGH WATER (MHW) | = | 1.66 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.86 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3905A 1976 | 4.37 | 2.71 |
| 853-3905B 1976 | 8.45 | 6.79 |
| 853-3905C 1976 | 5.31 | 3.65 |
| 853-3905D 1976 | 13.87 | 12.21 |
| 853-3905E 1976 | 6.17 | 4.51 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3909 MANAHAWKIN CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 77/3 TO 77/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 1.49 FEET |
| MEAN HIGH WATER (MHW) | = | 1.30 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.68 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3909A 1976 | | 2.69 | 1.39 |
| 853-3909B 1976 | | 8.29 | 6.99 |
| 853-3909C 1976 | | 4.03 | 2.73 |
| U 66 1964 | JU0136 | 17.29 | 15.99 |
| L 67 1964 | JU0133 | 2.61 | 1.31 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3935 MANAHAWKIN DRAWBRIDGE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 76/9 TO 77/8 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 1.51 FEET |
| MEAN HIGH WATER (MHW) | = | 1.32 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.69 FEET |
| MEAN LOW WATER (MLW) | = | 0.06 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3935E 1976 | AC7258 | 4.61 | 3.29 |
| 853-3935F 1976 | AC7259 | 3.47 | 2.15 |
| NO. 3 1936 | JU0139 | 6.13 | 4.81 |
| NO. 2 1936 | JU0140 | 2.58 | 1.26 |
| D 7 1930 5.184 | JU0141 | 4.43 | 3.11 |
| Y 54 1961 | JU0142 | 19.32 | 18.00 |
| N 67 1967 | JU0143 | 4.36 | 3.04 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3941 CEDAR RUN LITTLE EGG HARBOR, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 77/5 TO 77/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-4044 LONG POINT, LITTLE EGG HARBOR NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE
AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.17 FEET |
| MEAN HIGH WATER (MHW) | = | 1.93 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.00 FEET |
| MEAN LOW WATER (MLW) | = | 0.07 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3941A 1977 | 2.41 | 0.48 |
| 853-3941B 1977 | 2.38 | 0.45 |
| 853-3941C 1977 | 3.03 | 1.10 |
| 853-3941D 1977 | 2.98 | 1.05 |
| 853-3941E 1977 | 2.19 | 0.26 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3982 DINNER POINT CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 77/3 TO 77/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.16 FEET |
| MEAN HIGH WATER (MHW) | = | 1.95 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.01 FEET |
| MEAN LOW WATER (MLW) | = | 0.07 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-3982A 1976 | 2.60 | 0.65 |
| 853-3982B 1976 | 2.25 | 0.30 |
| 853-3982C 1976 | 1.96 | 0.01 |
| 853-3982D 1976 | 3.44 | 1.49 |
| 853-3982E 1976 | 4.47 | 2.52 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-3987 WEST CREEK, WESTECUNK CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 77/3 TO 77/9 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-1680 SANDY HOOK NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.42 FEET |
| MEAN HIGH WATER (MHW) | = | 2.19 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.13 FEET |
| *NGVD 1929 | = | 0.10 FEET |
| MEAN LOW WATER (MLW) | = | 0.08 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390741, 3/82, AND NOS LEVELING OF 3/18/77

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-3987A 1976 | | 4.27 | 2.08 |
| 853-3987B 1976 | | 3.36 | 1.17 |
| 853-3987C 1977 | | 9.68 | 7.49 |
| B 55 1961 | JU0125 | 4.75 | 2.56 |
| J 67 1964 | JU0089 | 27.98 | 25.79 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4002 UPPER MULLICA RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|------------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/7 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.96 FEET |
| MEAN HIGH WATER (MHW) | = | 2.72 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.41 FEET |
| MEAN LOW WATER (MLW) | = | 0.10 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4002A 1978 | 3.57 | 0.85 |
| 853-4002B 1978 | 5.49 | 2.77 |
| 853-4002C 1978 | 4.68 | 1.96 |
| 853-4002D 1978 | 8.56 | 5.84 |
| 853-4002E 1978 | 8.80 | 6.08 |

CAUTION:

MONTHLY MEANS SHOW CONSIDERABLE VARIABILITY THAT MAY BE DUE TO SEASONAL EFFECTS OR UNDOCUMENTED DATUM SHIFTS.

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4043 WADING RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 6 MONTHS |
| TIME PERIOD | = | 77/ 6 TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.42 FEET |
| MEAN HIGH WATER (MHW) | = | 3.16 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.65 FEET |
| MEAN LOW WATER (MLW) | = | 0.14 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|----------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4043A 1977 | | 8.68 | 5.52 |
| 853-4043B 1977 | | 13.56 | 10.40 |
| 853-4043C 1977 | | 18.02 | 14.86 |
| 853-4043D 1977 | | 20.46 | 17.30 |
| 17896 | | 11.92 | 8.76 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4044 LONG POINT, LITTLE EGG HARBOR, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 77/3 TO 77/9 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.34 FEET |
| MEAN HIGH WATER (MHW) | = | 2.08 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.08 FEET |
| MEAN LOW WATER (MLW) | = | 0.08 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4044A 1976 | | 3.72 | 1.64 |
| 853-4044B 1976 | | 3.56 | 1.48 |
| 853-4044C 1976 | | 3.47 | 1.39 |
| 853-4044D 1976 | | 3.46 | 1.38 |
| 853-4044E 1976 | | 5.40 | 3.32 |
| F 55 1961 | JU0127 | 3.44 | 1.36 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4048 BEACH HAVEN CREST (INSIDE) NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 76/6 TO 77/6 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.18 FEET |
| MEAN HIGH WATER (MHW) | = | 1.93 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.00 FEET |
| MEAN LOW WATER (MLW) | = | 0.08 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4048A 1976 | | 3.69 | 1.76 |
| 853-4048B 1976 | | 3.91 | 1.98 |
| 853-4048C 1976 | | 3.43 | 1.50 |
| 853-4048D 1976 | AC7255 | 3.40 | 1.47 |
| Y 66 1964 | JU0192 | 5.65 | 3.72 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4049 PARKER RUN, LITTLE EGG HARBOR, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 77/3 TO 77/9 |
| TIDAL EPOCH | = | 1966-1984 1983-2001 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.46 FEET |
| MEAN HIGH WATER (MHW) | = | 2.20 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.14 FEET |
| MEAN LOW WATER (MLW) | = | 0.08 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00FEET |

NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-----------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4049A 1976 | 6.33 | 4.13 |
| 853-4049B 1976 | 7.59 | 5.39 |
| 853-4049C 1976 | 5.99 | 3.79 |
| 853-4049D 1976 | 11.73 | 9.53 |
| Z 54 1961 | JU0091 8.42 | 6.22 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4080 TUCKERTON, TUCKERTON CREEK NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 10/76 TO 9/77 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.52 FEET |
| MEAN HIGH WATER (MHW) | = | 2.25 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.17 FEET |
| NGVD 1929* | = | 0.17 FEET |
| MEAN LOW WATER (MLW) | = | 0.09 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390741, 3/82 AND NOS LEVELING OF 4/20/77

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4080A 1976 | JU2442 | 5.85 | 3.60 |
| 853-4080B 1976 | JU2441 | 11.41 | 9.16 |
| 853-4080C 1976 | JU2440 | 10.87 | 8.62 |
| G 55 1961 | JU0101 | 11.61 | 9.36 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4104 NEW GRETNA, BASS RIVER NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 6/77 OT 5/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.57 FEET |
| MEAN HIGH WATER (MHW) | = | 3.26 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.70 FEET |
| NGVD 1929* | = | 0.80 FEET |
| MEAN LOW WATER (MLW) | = | 0.14 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390741, 3/82, AND NOS LEVELING OF 11/9/77

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4104A 1977 | JU2439 | 8.36 | 5.10 |
| 853-4104B 1977 | JU2438 | 13.46 | 10.20 |
| 853-4104C 1977 | JU2437 | 7.22 | 3.96 |
| 853-4104D 1977 | JU2436 | 7.79 | 4.53 |
| F 66 1964 | JU0109 | 9.12 | 5.86 |
| GRETN 1932 | JU0112 | 12.16 | 8.90 |
| GRETN NO 1 1932 | JU0111 | 13.39 | 10.13 |
| GRETN NO 2 1932 | JU0110 | 10.76 | 7.50 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4117 GREEN BANK, MULLICA RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 78/3 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.48 FEET |
| MEAN HIGH WATER (MHW) | = | 3.21 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.69 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4117A 1977 | 4.93 | 1.72 |
| 853-4117B 1977 | 9.69 | 6.48 |
| 853-4117C 1977 | 14.64 | 11.43 |
| 853-4117D 1977 | 13.93 | 10.72 |
| 853-4117E 1977 | 16.92 | 13.71 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4139 TUCKERTON, LITTLE EGG HARBOR, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 77/5 TO 77/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.48 FEET |
| MEAN HIGH WATER (MHW) | = | 2.20 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.14 FEET |
| MEAN LOW WATER (MLW) | = | 0.09 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4139D 1977 | | 2.64 | 0.44 |
| 853-4139E 1977 | | 3.78 | 1.58 |
| 853-4139F 1977 | | 4.20 | 2.00 |
| 853-4139G 1977 | | 4.32 | 2.12 |
| 853-4139H 1977 | | 3.69 | 1.49 |
| R 55 1961 | JU0229 | 5.18 | 2.98 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4208 BEACH HAVEN COAST GUARD STATION, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 76/9 TO 77/8 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.61 FEET |
| MEAN HIGH WATER (MHW) | = | 2.33 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.22 FEET |
| MEAN LOW WATER (MLW) | = | 0.11 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4208A 1976 | | 6.46 | 3.13 |
| 853-4208B 1976 | | 6.82 | 4.49 |
| M 67 1964 | JU0208 | 5.42 | 3.09 |
| ST JAMES RM 4 | JU0211 | | |
| ST JAMES RM 5 | | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4212 CRAMERS BOATYARD, MULLICA RIVER NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 14 MOINTHS |
| TIME PERIOD | = | 5/77 TO 10/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.41 FEET |
| MEAN HIGH WATER (MHW) | = | 3.14 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.64 FEET |
| NGVD 1929* | = | 0.71 FEET |
| MEAN LOW WATER (MLW) | = | 0.14 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390741, 3/82, AND NOS LEVELING OF 5/2/77.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4212D 1977 | | 6.75 | 3.61 |
| 853-4212E 1977 | JU2432 | 7.93 | 4.79 |
| 853-4212F 1977 | JU2431 | 7.94 | 4.80 |
| F 8 1930 8.333 | JU0119 | 9.02 | 5.88 |
| 1852 | JU0120 | 8.44 | 5.30 |
| 1 C | | | |
| 2 C | JU2433 | | |
| 3 C | | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4244 GRAVELING POINT NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 12 MONTHS |
| TIME PERIOD | = | 77/9 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.71 FEET |
| MEAN HIGH WATER (MHW) | = | 3.34 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.73 FEET |
| MEAN LOW WATER (MLW) | = | 0.12 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4244A 1977 | 6.13 | 2.79 |
| 853-4244B 1977 | 7.84 | 4.50 |
| 853-4244C 1977 | 6.33 | 2.99 |
| 853-4244D 1977 | 7.25 | 3.91 |
| 853-4244E 1977 | 5.45 | 2.11 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4256 U.S. HIGHWAY 9, NACOTE CREEK NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 9/77 TO 8/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.57 FEET |
| MEAN HIGH WATER (MHW) | = | 3.25 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.69 FEET |
| MEAN LOW WATER (MLW) | = | 0.12 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4256A 1977 | JU2430 | 4.92 | 1.67 |
| 853-4256B 1977 | JU2429 | 8.23 | 4.98 |
| 853-4256C 1977 | JU2428 | 9.94 | 6.69 |
| 853-4256D 1977 | JU2427 | 10.46 | 7.21 |
| 1851 | JU0121 | 13.64 | 10.39 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4287 LITTLE SHEEPSHEAD CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 77/3/TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.64 FEET |
| MEAN HIGH WATER (MHW) | = | 3.26 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.69 FEET |
| MEAN LOW WATER (MLW) | = | 0.12 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4287A 1976 | | 11.25 | 7.99 |
| NO. 1 1974 | | 7.12 | 3.86 |
| P55 1961 | JU0238 | 4.68 | 1.42 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4319 GREAT BAY, TUCKERTON, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 77/3 TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.88 FEET |
| MEAN HIGH WATER (MHW) | = | 3.50 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.81 FEET |
| MEAN LOW WATER (MLW) | = | 0.13 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4319A 1976 | AI9352 | 6.15 | 2.65 |
| 853-4319B 1976 | AI9353 | 5.70 | 2.20 |
| 853-4319C 1976 | AI9354 | 4.84 | 1.34 |
| NO. 2 1974 | AI9355 | 5.12 | 1.62 |
| 853-4287A 1976 | | 11.44 | 7.94 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4393 MAIN MARSH THOROFARE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 4/78 – 11/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.73 FEET |
| MEAN HIGH WATER (MHW) | = | 3.38 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.75 FEET |
| MEAN LOW WATER (MLW) | = | 0.13 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| | | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| <u>BENCHMARK STAMPING</u> | <u>PID #</u> | <u>MLLW</u> | <u>MHW</u> |
| 853-4393D 1977 | | 3.99 | 0.61 |
| 853-4393E 1977 | | 4.37 | 0.99 |
| Z55 1961 | JU0280 | 4.34 | 0.96 |
| BM 4 1971 | | 4.17 | 0.79 |
| BM 6 1971 | | 4.22 | 0.84 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4468 MAYS LANDING - GREAT EGG HARBOR RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 4/81 – 2/82 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.59 FEET |
| MEAN HIGH WATER (MHW) | = | 4.29 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.24 FEET |
| NGVD 1929* | = | 1.34 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390743, 4/82, AND NOS LEVELING OF 6/8/82

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4468D 1977 | JU4223 | 10.13 | 5.84 |
| 853-4468E 1977 | JU4213 | 9.44 | 5.15 |
| 853-4468F 1977 | JU4214 | 10.85 | 6.56 |
| MAY NO. 1 1935 | JU0509 | 10.06 | 5.77 |
| MAY NO. 2 1935 | JU0511 | 8.35 | 4.06 |
| MAY 1935 | JU0510 | 9.96 | 5.67 |
| MAY 1935 AZIMUTH | JU0512 | 10.39 | 6.10 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4469 REED BAY, WEST SIDE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 7/78 – 11/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-4540 ABSECON. ABSECON CREEK, N.J |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE
AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.38 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4469A 1978 | | 3.60 |
| 853-4469B 1978 | | 1.84 |
| 853-4469C 1978 | | 4.56 |
| NO. | | 2.56 |
| NO. 3 | | 2.15 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4496 BRIGANTINE CHANNEL, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 4/78 – 12/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.18 FEET |
| MEAN HIGH WATER (MHW) | = | 3.81 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.98 FEET |
| MEAN LOW WATER (MLW) | = | 0.14 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4496A 1977 | 3.83 | 0.02 |
| 853-4496B 1977 | 3.94 | 0.13 |
| 853-4496C 1977 | 3.98 | 0.17 |
| 853-4496D 1977 | 3.88 | 0.07 |
| 853-4496E 1977 | 4.31 | 0.50 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4540 ABSECON, ABSECON CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 6/77 TO 5/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.39 FEET |
| MEAN HIGH WATER (MHW) | = | 4.03 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.09 FEET |
| MEAN LOW WATER (MLW) | = | 0.14 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4540D 1977 | JU2455 | 7.88 | 3.85 |
| 853-4540E 1977 | JU2456 | 11.47 | 7.44 |
| 853-4540F 1977 | JU2457 | 9.87 | 5.84 |
| 853-4540G 1977 | JU2458 | 8.42 | 4.39 |
| 853-4540H 1977 | JU2459 | 7.46 | 3.43 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4638 ABSECON CHANNEL, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 12 MONTHS |
| TIME PERIOD | = | 6/77 TO 5/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.44 FEET |
| MEAN HIGH WATER (MHW) | = | 4.05 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.11 FEET |
| MEAN LOW WATER (MLW) | = | 0.17 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4638A 1977 | JU4082 | 11.98 | 7.93 |
| 853-4638B 1977 | | 8.98 | 4.93 |
| 853-4638C 1977 | | 9.22 | 5.17 |
| 853-4638D 1977 | | 9.23 | 5.18 |
| 853-4638F 1977 | JU4081 | | |
| ATLANTIC 1932 1973 | JU2792 | 9.03 | 5.03 |
| ATLANTIC NO. 1 1932 | | 8.84 | 4.79 |
| ATLANTIC NO. 4 1973 | JU4079 | 8.53 | 4.48 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4657 PLEASANTVILLE, LAKES BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8MONTHS |
| TIME PERIOD | = | 7/77 TO 6/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.55 FEET |
| MEAN HIGH WATER (MHW) | = | 4.15 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.15 FEET |
| NGVD 1929* | = | 1.35 FEET |
| MEAN LOW WATER (MLW) | = | 0.14 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390743, 4/82, AND NOS LEVELING OF 12/6/77.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4657A 1977 | JU2420 | 6.46 | 2.31 |
| 853-4657B 1977 | JU2421 | 6.17 | 2.02 |
| 853-4657C 1977 | JU2422 | 6.57 | 2.42 |
| 853-4657D 1977 | JU2423 | 7.38 | 3.23 |
| 853-4657E 1977 | JU2424 | 6.89 | 2.74 |
| P 8 1930 12.021 | JU0348 | 13.30 | 9.15 |
| G 4 1924 27.671 | JU0349 | 29.00 | 24.85 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4691 GREAT EGG HARBOR RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 7/78 – 10/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.97 FEET |
| MEAN HIGH WATER (MHW) | = | 3.68 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.92 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4691A 1978 | | 4.47 | 0.79 |
| 853-4691B 1978 | | 4.79 | 1.11 |
| 853-4691C 1978 | | 10.23 | 6.55 |
| P57 1961 | JU0502 | 18.20 | 14.52 |
| NO.3 1937 | JU0501 | 9.06 | 5.38 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4720 ATLANTIC CITY, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 132 MONTHS |
| TIME PERIOD | = | 1/66 TO 12/84 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.66 FEET |
| MEAN HIGH WATER (MHW) | = | 4.23 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.20 FEET |
| NGVD 1929* | = | 1.57 FEET |
| MEAN LOW WATER (MLW) | = | 0.16FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4720B 1979 | JU4071 | 10.13 | 5.90 |
| 853-4720C 1981 | | 8.49 | 4.26 |
| 853-4720D 1981 | | 12.57 | 8.34 |
| 853-4720E 1981 | | 11.64 | 7.41 |
| 26 1911 10.472 | JU0317 | 11.97 | 7.74 |
| 30 1922 9.675 | JU0311 | 11.24 | 7.01 |
| TIDAL 31 RESET 1973 | JU0315 | 9.85 | 5.62 |
| 27659 FINE | JU4072 | 15.56 | 11.33 |
| BASIC | JU0322 | | |

FOR RECOVERY DESCRIPTIONS SEE [1960-1978](#) EPOCH AT NOAA CO-OPS

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4739 DOCK THOROFARE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 6/77 – 6/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.53 FEET |
| MEAN HIGH WATER (MHW) | = | 4.13 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.14 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4739A 1977 | 5.33 | 1.20 |
| 853-4739B 1977 | 7.27 | 3.14 |
| 853-4739C 1977 | 6.26 | 2.13 |
| 853-4739D 1977 | 6.01 | 1.88 |
| 853-4739E 1977 | 5.79 | 1.66 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4770 VENTNOR CITY FISHING PIER, NJ.

[1983-2001 NOAA](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4778 STEELMANVILLE, PATCONG RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 8/77 TO 7/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.27 FEET |
| MEAN HIGH WATER (MHW) | = | 3.90 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.03 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4778A 1977 | | 12.70 | 8.80 |
| 853-4778B 1977 | | 13.64 | 9.74 |
| 853-4778C 1977 | | 12.73 | 8.83 |
| 853-4778D 1977 | | 15.59 | 11.69 |
| 853-4778E 1977 | | 14.16 | 10.26 |
| G65 1964 | JU0358 | 27.46 | 23.56 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4836 LONGPORT, RISLEY CHANNEL, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 7/77 TO 5/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.39 FEET |
| MEAN HIGH WATER (MHW) | = | 3.98 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.06 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-4836E 1977 | JU4236 | 8.91 | 4.93 |
| 853-4836F 1977 | | 9.06 | 5.08 |
| 853-4836G 1977 | | 9.57 | 5.59 |
| NO. 9 1962 | | 7.71 | 3.73 |
| POINT 2 1962 | | 11.69 | 7.71 |
| POINT 2 NO.2 1962 | JU2467 | 10.69 | 6.71 |
| POINT 2 NO 1 1962 | JU0477 | 7.02 | 3.04 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4883 TUCKAHOE, TUCKAHOE RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 7/77 TO 9/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.89 FEET |
| MEAN HIGH WATER (MHW) | = | 3.62 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.91 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4883A 1977 | 6.62 | 3.00 |
| 853-4883B 1977 | 4.98 | 1.36 |
| 853-4883C 1977 | 5.11 | 1.49 |
| 853-4883D 1977 | 16.55 | 12.93 |
| 853-4883E 1977 | 16.44 | 12.82 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-4975 GREAT EGG HARBOR BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 6/77 TO 5/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978 NOAA) |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.06 FEET |
| MEAN HIGH WATER (MHW) | = | 3.69 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.92 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-4975D 1977 | 6.92 | 3.23 |
| 853-4975E 1977 | 7.85 | 4.16 |
| 853-4975F 1977 | 7.07 | 3.38 |
| 853-4975G 1977 | 7.51 | 3.82 |
| 853-4975H 1977 | 9.70 | 6.01 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5001 CEDAR SWAMP, TUCKAHOE RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/6 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-4883 TUCKAHOE No.1 NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.51 FEET |
| MEAN HIGH WATER (MHW) | = | 3.29 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.77 FEET |
| MEAN LOW WATER (MLW) | = | 0.24 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-5001A 1978 | 10.09 | 6.80 |
| 853-5001B 1978 | 6.16 | 2.87 |
| 853-5001C 1978 | 10.09 | 6.80 |
| 853-5001D 1978 | 7.09 | 3.80 |
| 853-5001E 1978 | 7.61 | 4.32 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5101 CORSON INLET NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 11/77 TO 10/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.40 FEET |
| MEAN HIGH WATER (MHW) | = | 4.00 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.08 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-5101 D 1977 | JU2409 | 7.04 | 3.04 |
| 853-5101 E 1977 | JU2408 | 6.17 | 2.17 |
| 853-5101 F 1977 | JU2407 | 7.85 | 3.85 |
| 853-5101 G 1977 | JU2405 | 7.70 | 3.70 |
| 853-5101 H 1977 | JU2404 | 9.78 | 5.78 |
| CURVE 2 1966 | JU2410 | 7.85 | 3.85 |
| CI 2 1971 | | 11.21 | 7.21 |
| CI 3 1971 | | 10.02 | 6.02 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5163 STRATHMERE, STRATHMERE BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 11/77 TO 10/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.42 FEET |
| MEAN HIGH WATER (MHW) | = | 4.02 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.09 FEET |
| NGVD 1929* | = | 1.29 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390743, 4/82, AND NOS LEVELING OF 10/20/78

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-5163A 1977 | JU2400 | 7.21 | 3.19 |
| 853-5163B 1977 | JU2403 | 8.16 | 4.14 |
| 853-5163C 1977 | JU2402 | 10.53 | 6.51 |
| U 57 1961 | JU0392 | 13.15 | 9.13 |
| STRATHMERE 1932 | JU0394 | 7.27 | 3.25 |
| STRATHMERE NO 1 1932 | JU0393 | 7.83 | 3.81 |
| STRATHMERE NO 4 1932 | JU2401 | 8.01 | 3.99 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5221 LUDLAM BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 9/78 TO 9/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.54 FEET |
| MEAN HIGH WATER (MHW) | = | 4.15 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.15 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-5221A 1978 | 4.88 | 0.73 |
| 853-5221B 1978 | 5.12 | 0.97 |
| 853-5221C 1978 | 4.84 | 0.69 |
| 853-5221D 1978 | 5.18 | 1.03 |
| 853-5221E 1978 | 4.81 | 0.66 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5309 TOWNSEND SOUND, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 77/10 TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.24 FEET |
| MEAN HIGH WATER (MHW) | = | 3.83 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.97 FEET |
| MEAN LOW WATER (MLW) | = | 0.10 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 5309 A 1977 | 4.46 | 0.63 |
| 853- 5309 B 1977 | 8.25 | 4.42 |
| 853- 5309 C 1977 | 11.05 | 7.22 |
| 853- 5309 D 1977 | 12.34 | 8.51 |
| 853- 5309 E 1977 | 13.23 | 9.40 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5357 STITES SOUND NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 4/78 TO 11/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.50 FEET |
| MEAN HIGH WATER (MHW) | = | 4.11 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.13 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-5357A 1977 | | 4.21 | 0.10 |
| 853-5357B 1977 | | 4.38 | 0.27 |
| 853-5357C 1977 | JU2340 | 7.28 | 3.17 |
| 853-5357D 1977 | | 8.38 | 4.27 |
| 853-5357E 1977 | JU2341 | 12.55 | 8.44 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 -5375 TOWNSEND INLET, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|------------------------------|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 77/8 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.42 FEET |
| MEAN HIGH WATER (MHW) | = | 4.02 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.09 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 5375A 1977 | 11.54 | 7.52 |
| 853- 5375B 1977 | 9.38 | 5.36 |
| 853- 5375C 1977 | 13.39 | 9.37 |
| 853- 5375D 1977 | 7.87 | 3.85 |
| 853- 5375E 1977 | 5.46 | 1.44 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 -5419 INGRAM THOROFARE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------------------|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 78/3 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DELAWARE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.45 FEET |
| MEAN HIGH WATER (MHW) | = | 4.06 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.11 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 5419 A 1977 | 7.21 | 3.15 |
| 853- 5419 B 1977 | 7.18 | 3.12 |
| 853- 5419 C 1977 | 7.07 | 3.01 |
| 853- 5419 D 1977 | 6.69 | 2.63 |
| 853- 5419 E 1977 | 7.35 | 3.29 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 – 5445 GREAT SOUND, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/6 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DELAWARE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.38 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE MHW</u> |
|---------------------------|--|
| 853- 5445 A 1978 | 0.11 |
| 853- 5445 B 1978 | 2.26 |
| 853- 5445 C 1978 | 9.21 |
| 853- 5445 D 1978 | 11.64 |
| 853- 5445 E 1978 | 12.39 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5451 LONGREACH, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 77/10 TO 77/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853- 5581 STONE HARBOR, GREAT CHANNEL, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.55 FEET |
| MEAN HIGH WATER (MHW) | = | 4.15 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.15 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 5451A 1977 | 4.85 | 0.70 |
| 853- 5451B 1977 | 4.93 | 0.78 |
| 853- 5451C 1977 | 4.52 | 0.37 |
| 853- 5451D 1977 | 5.20 | 1.05 |
| 853- 5451E 1977 | 5.10 | 0.95 |

NOTE:

STATION PREVIOUSLY PROVIDED ON 9/9/86 IS SUPERSEDED DUE TO REVALUATION OF DATA.

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 -5555 JENKINS SOUND, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/6 TO 78/8 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853 - 5419 INGRAM THOROFARE, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.41 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE <u>MHW</u> |
|---------------------------|---------------------------------------|
| 853- 5555 A 1978 | 0.72 |
| 853- 5555 B 1978 | 0.44 |
| 853- 5555 C 1978 | 1.61 |
| 853- 5555 D 1978 | 1.65 |
| 853- 5555 E 1978 | 2.60 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 –5581 STONE HARBOR, GREAT CHANNEL, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 77/8 TO 78/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.56 FEET |
| MEAN HIGH WATER (MHW) | = | 4.16 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.15 FEET |
| NGVD 1929 | = | 1.27 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD 1929 IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390743, 4/82, AND NOS LEVELING OF 8/1/77

BENCH MARK ELEVATION INFORMATION:

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853- 5581 D 1977 | | 6.38 | 2.22 |
| 853- 5581 E 1977 | AH9179 | 7.66 | 3.50 |
| 853- 5581 F 1977 | AH9180 | 6.01 | 1.85 |
| S H 1 1971 | | 6.61 | 2.45 |
| CLUB 2 1939 RM NO. 1 | JU0447 | 6.31 | 2.15 |
| CLUB 2 1939 | JU0446 | 5.93 | 1.77 |

NOTE:

STATION PREVIOUSLY PROVIDED ON 7/7/86 IS SUPERSEDED DUE TO REVALUATION OF THE DATA

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5661 NUMMY ISLAND, GRASSY SAND CHANNEL, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 12 MONTHS |
| TIME PERIOD | = | 77/10 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.65 FEET |
| MEAN HIGH WATER (MHW) | = | 4.22 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.19 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853- 5661 D 1977 | AH9181 | 12.58 | 8.36 |
| 853- 5661 E 1977 | | 8.19 | 3.97 |
| 853- 5661 F 1977 | | 7.78 | 3.56 |
| 853- 5661 G 1977 | | 7.56 | 3.34 |
| GRASSY SOUND 1962 | JU2952 | 26.90 | 22.68 |
| GRASSY SOUND NO. 2 1962 | AH8990 | 26.94 | 22.72 |
| GRASSY SOUND NO. 1 1962 | AH8991 | 25.96 | 21.74 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5695 OLD TURTLE, RICHARDSON SOUND, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/6 TO 78/8 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-5726 WEST WILDWOOD, GRASSY SOUND, NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE
AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.87 FEET |
| MEAN HIGH WATER (MHW) | = | 4.46 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.31 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 5695 A 1978 | 7.17 | 2.71 |
| 853- 5695 B 1978 | 6.77 | 2.31 |
| 853- 5695 C 1978 | 8.29 | 3.83 |
| 853- 5695 D 1978 | 6.58 | 2.12 |
| 853- 5695 E 1978 | 7.15 | 2.69 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5726 WEST WILDWOOD, GRASSY SOUND, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 78/3 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855- 7380 LEWES FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.81 FEET |
| MEAN HIGH WATER (MHW) | = | 4.40 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.28 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 5726 B 1977 | 5.85 | 1.45 |
| 853- 5726 C 1977 | 8.08 | 3.68 |
| 853- 5726 D 1977 | 6.25 | 1.85 |
| 853- 5726 E 1977 | 13.07 | 8.67 |
| 853- 5726 F 1977 | 10.22 | 5.82 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5805 SWAIN CHANNEL, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/7 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853- 5838 SUNSET LAKE, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.02 FEET |
| MEAN HIGH WATER (MHW) | = | 4.60 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.38 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 5805 A 1978 | 5.08 | 0.48 |
| 853- 5805 B 1978 | 5.28 | 0.68 |
| 853- 5805 C 1978 | 5.17 | 0.57 |
| 853- 5805 D 1978 | 5.29 | 0.69 |
| 853- 5805 E 1978 | 5.19 | 0.59 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5835 WILDWOOD CREST, NJ.

[1983-2001 NOAA](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5838 SUNSET LAKE, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 77/10 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.06 FEET |
| MEAN HIGH WATER (MHW) | = | 4.64 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.40 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853- 5838 A 1977 | AI9390 | 7.04 | 2.40 |
| 853- 5838 B 1977 | AI9389 | 8.04 | 3.40 |
| 853- 5838 C 1977 | | 9.80 | 5.16 |
| 853- 5838 D 1977 | AI9399 | 7.35 | 2.71 |
| 853- 5838 E 1977 | AI9388 | 9.35 | 4.71 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5902 CAPE ISLAND CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|------------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 6/78 TO 8/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-5901 CAPE MAY HARBOR, NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.10 FEET |
| MEAN HIGH WATER (MHW) | = | 4.67 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.42 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-5902A 1978 | HU1182 | 8.99 | 4.32 |
| 853-5902B 1978 | HU1181 | 12.25 | 7.58 |
| 853-5902C 1978 | HU1178 | 13.99 | 9.32 |
| 853-5902D 1978 | HU1177 | 12.89 | 8.22 |
| 853-5902E 1978 | HU1176 | 13.20 | 8.53 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-5962 CAPE MAY, ATLANTIC OCEAN, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 8/78 TO 11/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.16 FEET |
| MEAN HIGH WATER (MHW) | = | 4.72 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.43 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-5962F 1977 | HU1180 | 10.74 | 6.02 |
| 853-5962G 1977 | HU1179 | 9.99 | 5.27 |
| 853-5962H 1977 | | 11.41 | 6.69 |
| 853-5962J 1977 | | 12.68 | 7.96 |
| Z 4 1924 | HU0001 | 17.15 | 12.43 |
| A 5 1924 | HU0002 | 11.32 | 6.60 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6021 CAPE MAY POINT, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 5 MONTHS |
| TIME PERIOD | = | 77/9 TO 78/5 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.37 FEET |
| MEAN HIGH WATER (MHW) | = | 4.93 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.54 FEET |
| MEAN LOW WATER (MLW) | = | 0.15 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-6021A 1977 | 12.63 | 7.70 |
| 853-6021B 1977 | 13.14 | 8.21 |
| 853-6021C 1977 | 11.78 | 6.85 |
| 853-6021C 1977 | 13.22 | 8.29 |
| 853-6021E 1977 | 11.00 | 6.07 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6110

CAPE MAY, CAPE MAY CANAL, DELAWARE BAY NJ.

[1983-2001 NOAA](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6449 DIAS CREEK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 3 MONTH |
| TIME PERIOD | = | 78/5 TO 78/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853- 6581 BIDWELL CREEK ENTRANCE, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE
AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.14 FEET |
| MEAN HIGH WATER (MHW) | = | 1.96 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.02 FEET |
| MEAN LOW WATER (MLW) | = | 0.08 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-6449A 1978 | 4.37 | 2.77 |
| 853-6449B 1978 | 4.80 | 2.84 |
| 853-6449C 1978 | 9.13 | 7.17 |
| 853-6449C 1978 | 9.89 | 7.93 |
| 853-6449E 1978 | 15.21 | 13.25 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 –6551 UPPER BIDWELL CREEK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 3 MONTH |
| TIME PERIOD | = | 78/9 TO 78/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853- 6581 BIDWELL CREEK ENTRANCE, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.84 FEET |
| MEAN HIGH WATER (MHW) | = | 5.64 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.82 FEET |
| MEAN LOW WATER (MLW) | = | 0.01 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-6551A 1978 | 10.97 | 5.33 |
| 853-6551B 1978 | 11.25 | 5.61 |
| 853-6551C 1978 | 10.11 | 4.47 |
| 853-6551C 1978 | 9.47 | 3.83 |
| 853-6551E 1978 | 9.31 | 3.67 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 – 6581 BIDWELL CREEK ENTRANCE, DEL. BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 77/11 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.35 FEET |
| MEAN HIGH WATER (MHW) | = | 5.92 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.05 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-6581A 1977 | 7.98 | 2.06 |
| 853-6581B 1977 | 9.36 | 3.44 |
| 853-6581C 1977 | 7.85 | 1.93 |
| 853-6581D 1977 | 8.02 | 2.10 |
| 853-6581E 1977 | 9.07 | 3.15 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6687 SLUICE CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/5 TO 78/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853- 6736 DENNIS CREEK, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.56 FEET |
| MEAN HIGH WATER (MHW) | = | 5.31 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.80 FEET |
| MEAN LOW WATER (MLW) | = | 0.28 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID #</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853- 6687 A 1978 | AI9714 | 11.08 | 5.77 |
| 853- 6687 B 1978 | | 11.12 | 5.81 |
| 853- 6687 C 1978 | AI9715 | 9.78 | 4.47 |
| 853- 6687 D 1978 | AI9716 | 11.99 | 6.68 |
| 5791 | AI9717 | 17.85 | 12.54 |
| 01411435 A | AI9713 | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6736 DENNIS CREEK, DELAWARE BAY, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 78/3 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855- 7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.76 FEET |
| MEAN HIGH WATER (MHW) | = | 5.46 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.86 FEET |
| MEAN LOW WATER (MLW) | = | 0.26 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-6736A 1977 | JU2327 | 6.33 | 0.87 |
| 853-6736B 1977 | JU2326 | 6.15 | 0.69 |
| 853-6736C 1977 | JU2325 | 5.96 | 0.50 |
| 853-6736D 1977 | JU2324 | 5.77 | 0.31 |
| 853-6736E 1977 | JU2323 | 6.03 | 0.57 |
| 853-6736F 1977 | JU2322 | 6.83 | 1.37 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6752 UPPER DENNIS CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/6 TO 78/8 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-6736 DENNIS CREEK, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.47 FEET |
| MEAN HIGH WATER (MHW) | = | 5.23 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.77 FEET |
| MEAN LOW WATER (MLW) | = | 0.31 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID #</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-6752A 1978 | JU2329 | 11.24 | 6.01 |
| 853-6752B 1978 | JU2330 | 11.29 | 6.06 |
| 853-6752C 1978 | | 8.46 | 3.23 |
| 853-6752D 1978 | | 8.46 | 3.23 |
| 2769 | JU2331 | 8.75 | 3.52 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6764 WEST CREEK, DELAWARE BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 77/8 TO 78/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.30 FEET |
| MEAN HIGH WATER (MHW) | = | 4.90 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.53 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 6764 A 1977 | 6.26 | 1.36 |
| 853- 6764 B 1977 | 6.01 | 1.11 |
| 853- 6764 C 1977 | 6.19 | 1.29 |
| 853- 6764 D 1977 | 6.43 | 1.53 |
| 853- 6764 E 1977 | 6.50 | 1.60 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6801 RIGGINS DITCH, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|------------------------------|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 77/12 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.69 FEET |
| MEAN HIGH WATER (MHW) | = | 5.32 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.77 FEET |
| MEAN LOW WATER (MLW) | = | 0.12 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 6801 A 1977 | 5.08 | -0.24 |
| 853- 6801 B 1977 | 4.86 | -0.46 |
| 853- 6801 C 1977 | 4.79 | -0.53 |
| 853- 6801 D 1977 | 4.76 | -0.56 |
| 853- 6801 E 1977 | 4.88 | -0.44 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6823 EAST CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 3 MONTH |
| TIME PERIOD | = | 78/5 TO 78/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853- 6736 DENNIS CREEK, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.36 FEET |
| MEAN HIGH WATER (MHW) | = | 4.13 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.18 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-6823A 1978 | JU2317 | 8.71 | 4.58 |
| 853-6823B 1978 | JU2318 | 8.67 | 4.54 |
| 853-6823C 1978 | JU2316 | 6.46 | 2.33 |
| 853-6823D 1978 | JU2315 | 7.27 | 3.14 |
| 853-6823E 1978 | JU2314 | 8.26 | 4.13 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6848 FISHING CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/8 TO 78/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DELAWARE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.22 FEET |
| MEAN HIGH WATER (MHW) | = | 5.77 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.97 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853- 6848 A 1978 | 6.32 | 0.55 |
| 853- 6848 B 1978 | 6.82 | 1.05 |
| 853- 6848 C 1978 | 6.97 | 1.20 |
| 853- 6848 D 1978 | 6.96 | 1.19 |
| 853- 6848 C 1978 | 7.28 | 1.51 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6849 LOWER DIVIDING CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 87/8 TO 78/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DELAWARE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.21 FEET |
| MEAN HIGH WATER (MHW) | = | 5.75 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.96 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-6849A 1978 | 6.29 | 0.54 |
| 853-6849B 1978 | 6.88 | 1.13 |
| 853-6849C 1978 | 6.13 | 0.38 |
| 853-6849D 1978 | 6.43 | 0.68 |
| 853-6849E 1978 | 6.72 | 0.97 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6851 WEST CREEK , NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 5/78 TO 7/78 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-6764 WEST CREEK NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 2.81 FEET |
| MEAN HIGH WATER (MHW) | = | 2.68 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.49 FEET |
| MEAN LOW WATER (MLW) | = | 0.30 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-6751A | | 11.61 | 8.93 |
| 853-6751B | | 5.63 | 2.95 |
| 853-6751C | | 6.60 | 3.92 |
| 853-6751D | | 7.52 | 4.84 |
| U8 1930 | JU0464 | 11.57 | 8.89 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6855 RIGGINS DITCH, HEISLERVILLE NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/6 TO 78/8 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-6801 RIGGINS DITCH NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.08 FEET |
| MEAN HIGH WATER (MHW) | = | 4.85 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.55 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-6855 A 1978 | AA7213 | 7.59 | 2.74 |
| 853-6855 B 1978 | | 6.76 | 1.91 |
| 853-6855 C 1978 | | 6.24 | 1.39 |
| 853-6855 D 1978 | | 5.69 | 0.84 |
| 853-6855 E 1978 | | 5.75 | 0.90 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6889 BIVALVE NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/8 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-7059 MAURICETOWN N.J. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.20 FEET |
| MEAN HIGH WATER (MHW) | = | 5.77 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.98 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-6889A 1978 | | 7.32 | 1.55 |
| 853-6889B 1978 | AI9733 | 6.38 | 0.61 |
| 853-6889C 1978 | | 7.08 | 1.31 |
| 853-6889D 1978 | AA7214 | 8.28 | 2.51 |
| 853-6889E 1978 | | 5.27 | -0.50 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 –6915 FORTESCUE NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 77/9 TO 78/8 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FT.MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.44 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE <u>MHW</u> |
|---------------------------|------------------------|---------------------------------------|
| 853-6915E 1977 | | 2.42 |
| 853-6915F 1977 | | 3.00 |
| 853-6915G 1977 | | 2.38 |
| NO 2 1953 | JU1009 | 2.33 |
| NO 3 1953 | JU1011 | 3.58 |
| NO 4 1953 | JU1010 | 3.25 |
| NO 5 1953 | JU1012 | 2.30 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6931 FORTESCUE , NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 6/84 TO 6/87 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-7380 LEWES FT MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.67 FEET |
| MEAN HIGH WATER (MHW) | = | 6.25 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.21 FEET |
| MEAN LOW WATER (MLW) | = | 0.17 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| NO 2 1953 | JU1009 | 8.56 | 2.31 |
| NO 3 1953 | JU1011 | 9.80 | 3.55 |
| NO 4 1953 | JU1010 | 9.46 | 3.21 |
| 853-6915F 1977 | | 9.24 | 2.99 |
| 853-6915G 1977 | | 8.62 | 2.37 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6935 WEIR CREEK, DELAWARE BAY NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 77/11 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855- 7380 LEWES |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.35 FEET |
| MEAN HIGH WATER (MHW) | = | 3.14 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.67 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-6935A 1977 | AA7215 | 6.05 | 2.91 |
| 853-6935B 1977 | | 5.34 | 2.20 |
| 853-6935C 1977 | | 5.40 | 2.26 |
| 853-6935D 1977 | | 5.17 | 2.03 |
| 853-6935E 1977 | | 5.38 | 2.24 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-6999 DIVIDING CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 77/8 TO 78/5 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855- 7380 LEWES FT. MILES DELAWARE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.19 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE <u>MHW</u> |
|---------------------------|------------------------|---------------------------------------|
| 853-6999A 1977 | AA7216 | 1.23 |
| 853-6999B 1977 | | 1.95 |
| 853-6999C 1977 | | 9.32 |
| 853-6999D 1977 | | 9.66 |
| 853-6999E 1977 | | 2.74 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7026 HOLLYWOOD, BEACH, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTH |
| TIME PERIOD | = | 77/8 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853- 6935 WEIR CREEK, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 1.40 FEET |
| MEAN HIGH WATER (MHW) | = | 1.26 FEET |
| MEAN TIDE LEVEL (MTL) | = | 0.69 FEET |
| MEAN LOW WATER (MLW) | = | 0.12 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7026 A 1978 | 1.74 | 0.48 |
| 853-7026 B 1978 | 1.66 | 0.40 |
| 853-7026 C 1978 | 2.02 | 0.76 |
| 853-7026 D 1978 | 2.32 | 1.06 |
| 853-7026 E 1978 | 3.70 | 2.44 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7052 MONEY ISLAND NJ.

See [NOAA 1960-1978](#) epoch for descriptions

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7059 MAURICETOWN, MAURICE RIVER , NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 9/77 TO 8/78 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.89 FEET |
| MEAN HIGH WATER (MHW) | = | 4.57 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.40 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7059 A 1977 | JU2298 | 9.72 | 5.15 |
| 853-7059 B 1977 | JU2297 | 13.16 | 8.59 |
| 853-7059 C 1977 | JU2294 | 16.96 | 12.39 |
| 853-7059 D 1977 | JU2295 | 20.49 | 15.92 |
| 853-7059 E 1977 | JU2296 | 18.37 | 13.80 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7079 NEWPORT LANDING, NANTUXENT CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 77/9 TO 78/8 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT. MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.59 FEET |
| MEAN HIGH WATER (MHW) | = | 4.38 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.36 FEET |
| MEAN LOW WATER (MLW) | = | 0.34 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7079A 1977 | AA7217 | 6.06 | 1.68 |
| 853-7079B 1977 | | 8.69 | 4.31 |
| 853-7079C 1977 | AA8553 | 6.80 | 2.42 |
| 853-7079D 1977 | AA8559 | 5.52 | 1.14 |
| 853-7079E 1977 | | 5.53 | 1.15 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7101 CEDAR CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 77/11 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.57 FEET |
| MEAN HIGH WATER (MHW) | = | 6.12 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.15 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7101C 1977 | AA7218 | 7.41 | 1.29 |
| 853-7101D 1977 | | 7.44 | 1.32 |
| 853-7101F 1982 | | 5.66 | -0.46 |
| 853-7101G 1982 | | 6.12 | 0.00 |
| 853-7101H 1982 | | 7.45 | 1.33 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7103 HUSTED LANDING, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 82/6 TO 82/7 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-7101 CEDAR CREEK NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.36 |
| MEAN HIGH WATER (MHW) | = | 0.00 |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

BENCHMARK STAMPING

853-7103 A 1982
853-7103 B 1982
853-7103 C 1982
853-7103 D 1982
853-7103 E 1982

ELEVATION IN FEET ABOVE

MHW

0.40
0.79
1.77
2.77
1.18

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7116 BACK CREEK, DELAWARE BAY NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 77/11 TO 77/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.40 FEET |
| MEAN HIGH WATER (MHW) | = | 6.01 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.08 FEET |
| MEAN LOW WATER (MLW) | = | 0.14 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7116A 1977 | 7.35 | 1.34 |
| 853-7116B 1977 | 7.29 | 1.28 |
| 853-7116C 1977 | 7.74 | 1.73 |
| 853-7116D 1977 | 7.70 | 1.69 |
| 853-7116E 1977 | 7.81 | 1.80 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7121 SHIP JOHN SHOAL, NJ.

[NOAA/NOS CO OPS](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7147 MANUMUSKIN RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 6/78 TO 9/78 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-7059 MAURICETOWN NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.86 FEET |
| MEAN HIGH WATER (MHW) | = | 4.56 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.40 FEET |
| MEAN LOW WATER (MLW) | = | 0.24 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7147 A 1977 | JU2286 | 17.61 | 13.05 |
| 853-7147 B 1977 | JU2287 | 17.45 | 12.89 |
| 853-7147 C 1977 | JU2288 | 13.68 | 9.12 |
| 853-7147 D 1977 | JU2289 | 15.06 | 10.50 |
| 853-7147 E 1977 | JU2290 | 18.22 | 13.66 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7201 UPPER CEDAR CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/8 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-7101 CEDAR CREEK N.J. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.39 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7201A 1978 | | 1.01 |
| 853-7201B 1978 | | 1.56 |
| 853-7201C 1978 | | 6.19 |
| 853-7201D 1978 | | 6.21 |
| 853-7201E 1978 | | 2.15 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7242 MANANTICO CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 6/78 TO 8/78 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-7059 MAURICETOWN NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.08 FEET |
| MEAN HIGH WATER (MHW) | = | 4.78 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.50 FEET |
| MEAN LOW WATER (MLW) | = | 0.22 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7242 A 1978 | JU2282 | 6.04 | 1.26 |
| 853-7242 B 1978 | | 7.50 | 2.72 |
| 853-7242 C 1978 | JU2284 | 11.51 | 6.73 |
| 853-7242 D 1978 | JU2281 | 14.42 | 9.64 |
| 853-7242 E 1978 | | 15.59 | 10.81 |
| Y 8 1930 | JU0936 | 11.43 | 6.65 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7353 TYNDALLS WHARF, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/8 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-7375 GREENWICH, COHANSEY RIVER NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.51 FEET |
| MEAN HIGH WATER (MHW) | = | 6.16 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.18 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7353A 1978 | 8.39 | 2.23 |
| 853-7353B 1978 | 20.58 | 14.42 |
| 853-7353C 1978 | 24.33 | 18.17 |
| 853-7353D 1978 | 27.59 | 21.43 |
| 853-7353E 1978 | 29.91 | 23.75 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7359 MILLVILLE, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 6/78 TO 8/78 |
| TIDAL EPOCH | = | 1966 – 1984 |
| CONTROL STATION | = | 853-7059 MAURICETOWN NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.55 FEET |
| MEAN HIGH WATER (MHW) | = | 5.23 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.73 FEET |
| MEAN LOW WATER (MLW) | = | 0.24 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION.

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7359 A 1978 | | 7.40 | 2.17 |
| 853-7359 B 1978 | JU2277 | 13.47 | 8.24 |
| A 9 1930 | JU0939 | 31.33 | 26.10 |
| B 9 1930 | JU0940 | 38.39 | 33.16 |
| C 9 1930 | JU0938 | 32.03 | 26.80 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7374 GREENWICH, COHANSEY RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 78/4 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.03 FEET |
| MEAN HIGH WATER (MHW) | = | 5.64 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.92 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7374A 1977 | AI9749 | 8.58 | 2.94 |
| 853-7374B 1977 | AI9750 | 11.91 | 6.27 |
| 853-7374C 1977 | | 8.45 | 2.81 |
| 853-7374D 1977 | | 8.71 | 3.07 |
| 853-7374E 1977 | AI9751 | 8.87 | 3.23 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7416 STATHEMS NECK, STOW CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 78/4 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.31 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7416 A 1977 | | 1.55 |
| 853-7416 B 1977 | | 1.16 |
| 853-7416 C 1977 | | 2.86 |
| 853-7416 D 1977 | | 3.98 |
| 853-7416 E 1977 | | 7.18 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7488 PINE ISLAND, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/9 TO 78/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA, PA |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.68 FEET |
| MEAN HIGH WATER (MHW) | = | 5.35 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.78 FEET |
| MEAN LOW WATER (MLW) | = | 0.21 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7488 A 1978 | 8.30 | 2.95 |
| 853-7488 B 1978 | 8.49 | 3.14 |
| 853-7488 C 1978 | 7.63 | 2.28 |
| 853-7488 D 1978 | 7.42 | 2.07 |
| 853-7488 E 1978 | 7.69 | 2.34 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7489 RACCOON DITCH, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 78/8 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.66 FEET |
| MEAN HIGH WATER (MHW) | = | 4.42 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.31 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7489 A 1978 | 8.74 | 4.32 |
| 853-7489 B 1978 | 8.77 | 4.35 |
| 853-7489 C 1978 | 9.41 | 4.99 |
| 853-7489 D 1978 | 10.06 | 5.64 |
| 853-7489 E 1978 | 11.15 | 6.73 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7535 MAD HORSE CREEK, DELAWARE BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 78/4 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.41 FEET |
| MEAN HIGH WATER (MHW) | = | 6.01 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.09 FEET |
| MEAN LOW WATER (MLW) | = | 0.17 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7535 A 1977 | 7.01 | 1.00 |
| 853-7535 B 1977 | 6.71 | 0.70 |
| 853-7535 C 1977 | 6.57 | 0.56 |
| 853-7535 D 1977 | 6.78 | 0.77 |
| 853-7535 E 1977 | 7.11 | 1.10 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7562 STOW CREEK, DELAWARE BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 6 MONTHS |
| TIME PERIOD | = | 77/10 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.94 FEET |
| MEAN HIGH WATER (MHW) | = | 4.67 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.47 FEET |
| MEAN LOW WATER (MLW) | = | 0.27 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7562 A 1977 | | 10.01 | 5.34 |
| 853-7562 B 1977 | AA7219 | 6.95 | 2.28 |
| 853-7562 C 1977 | | 6.49 | 1.82 |
| 853-7562 D 1977 | | 8.87 | 4.20 |
| 853-7562 E 1977 | | 11.51 | 6.84 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7589 SILVER LAKE FORK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/9 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-7535 MAD HORSE CREEK DELAWARE BAY NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.40 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> <u>MLLW</u> | <u>MHW</u> |
|---------------------------|---|------------|
| 853-7589 A 1978 | | 0.42 |
| 853-7589 B 1978 | | 0.28 |
| 853-7589 C 1978 | | -0.04 |
| 853-7589 D 1978 | | -0.16 |
| 853-7589 E 1978 | | -0.08 |

NOTE:

STATION PREVIOUSLY PROVIDED ON 9/9/86 IS SUPERSEDED DUE TO REVALUATION OF THE DATA

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7614 ARTIFICIAL ISLAND, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 18 MONTHS |
| TIME PERIOD | = | 79/6 TO 81/3 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FORT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.51 FEET |
| MEAN HIGH WATER (MHW) | = | 6.08 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.14 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7614 A 1977 | 16.64 | 10.56 |
| 853-7614 B 1977 | | |
| 853-7614 C 1977 | | |
| 853-7614 D 1977 | 17.64 | 11.56 |
| 853-7614 E 1977 | 17.59 | 11.51 |
| 853-7614 F 1980 | 17.67 | 11.59 |
| 853-7614 F 1983 | 17.33 | 11.25 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7667 HOPE CREEK, DELAWARE BAY, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 78/4 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA, PA |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.37 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | <u>MLLW</u> | <u>MHW</u> |
|---------------------------|--------------------------------|-------------|------------|
| 853-7667A 1977 | | | 20.05 |
| 853-7667B 1977 | | | 20.11 |
| 853-7667C 1977 | | | 2.65 |
| 853-7667D 1977 | | | 2.53 |
| 853-7667E 1977 | | | 1.39 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7689 UPPER HOPE CREEK NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------------|
| LENGTH OF SERIES | = | 5 MONTHS |
| TIME PERIOD | = | 8/78 TO 12/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES, FORT MILES, DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.34 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> <u>MHW</u> |
|---------------------------|--|
| 853-7689A 1978 | -0.33 |
| 853-7689B 1978 | 4.27 |
| 853-7689C 1978 | 4.10 |
| 853-7689D 1978 | 4.23 |
| 853-7689E 1978 | 4.16 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7731 LOWER ALLOWAY CREEK, DEL. BAY, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------------|
| LENGTH OF SERIES | = | 1 MONTHS |
| TIME PERIOD | = | 78/9 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853- 7753 HANCOCKS BRIDGE, NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.94 FEET |
| MEAN HIGH WATER (MHW) | = | 5.59 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.89 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7731 A 1977 | 8.99 | 3.40 |
| 853-7731 B 1977 | 6.96 | 1.37 |
| 853-7731 C 1977 | 9.09 | 3.50 |
| 853-7731 C 1977 | 9.12 | 3.53 |
| 853-7731 E 1977 | 9.12 | 3.53 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7753 HANCOCKS BRIDGE, ALLOWAY CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 78/5 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854- 7380 LEWES FT MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.44 |
| MEAN HIGH WATER (MHW) | = | 5.11 |
| MEAN TIDE LEVEL (MTL) | = | 2.66 |
| MEAN LOW WATER (MLW) | = | 0.20 |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7753 A 1977 | 7.43 | 2.32 |
| 853-7753 B 1977 | 5.49 | 0.38 |
| 853-7753 C 1977 | 4.91 | -0.20 |
| 853-7753 D 1977 | 4.91 | -0.20 |
| 853-7753 E 1977 | 4.73 | -0.38 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7774 ABBOTS MEADOW, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTH |
| TIME PERIOD | = | 78/9 TO 78/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854- 5530 PHILADELPHIA PA |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.56 FEET |
| MEAN HIGH WATER (MHW) | = | 5.24 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.70 FEET |
| MEAN LOW WATER (MLW) | = | 0.17 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7774 A 1978 | 10.27 | 5.03 |
| 853-7774 B 1978 | 8.00 | 2.76 |
| 853-7774 C 1978 | 8.10 | 2.86 |
| 853-7774 C 1978 | 7.75 | 2.51 |
| 853-7774 E 1978 | 7.85 | 2.61 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7779 COOPER CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTH |
| TIME PERIOD | = | 78/9 TO 78/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854- 5530 PHILADELPHIA PA |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.83 FEET |
| MEAN HIGH WATER (MHW) | = | 4.55 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.38 FEET |
| MEAN LOW WATER (MLW) | = | 0.21 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-7779 A 1978 | 9.39 | 4.84 |
| 853-7779 B 1978 | 9.40 | 4.85 |
| 853-7779 C 1978 | 8.40 | 3.85 |
| 853-7779 C 1978 | 8.78 | 4.23 |
| 853-7779 E 1978 | 10.75 | 6.20 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7847 MILL CREEK, ELSINBORO, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/9 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-7380 LEWES FT MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | |
|-------------------------------|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | 0.40 FEET |
| = | |

| | |
|-----------------------|-----------|
| MEAN HIGH WATER (MHW) | 0.00 FEET |
| = | |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE MHW</u> |
|---------------------------|------------------------------------|
| 853-7847 A 1978 | 2.25 |
| 853-7847 B 1978 | 1.15 |
| 853-7847 C 1978 | 3.85 |
| 853-7847 D 1978 | 4.84 |
| 853-7847 E 1978 | 6.85 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7889 QUINTON, ALLOWAY CREEK

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-----------------------------|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 1/78 TO 12/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 855-7380 LEWES FT MILES DE. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.29 FEET |
| MEAN HIGH WATER (MHW) | = | 4.03 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.15 FEET |
| MEAN LOW WATER (MLW) | = | 0.26 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7889A 1977 | JU2253 | 6.54 | 2.51 |
| 853-7889B 1977 | JU2251 | 10.32 | 6.29 |
| 853-7889C 1977 | JU2250 | 4.80 | 0.77 |
| 853-7889D 1977 | JU2249 | 6.58 | 2.55 |
| 853-7889E 1977 | JU2252 | 10.11 | 6.08 |
| P9 1930 | JU0645 | 21.92 | 17.89 |
| Q9 1930 | JU0647 | 10.15 | 6.12 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7942 ALLOWAY, ALLOWAY CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/9 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-7889 QUINTON, NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.23 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> <u>MHW</u> |
|---------------------------|--|
| 853-7942 A 1978 | 2.64 |
| 853-7942 B 1978 | 12.55 |
| 853-7942 C 1978 | 11.06 |
| 853-7942 D 1978 | 9.67 |
| 853-7942 E 1978 | 13.76 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7961 SALEM RIVER, SINNICKSON LANDING, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 3/78 TO 12/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 855-7380 LEWES FT MILES DE |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.87 FEET |
| MEAN HIGH WATER (MHW) | = | 5.46 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.81 FEET |
| MEAN LOW WATER (MLW) | = | 0.16 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7961A 1977 | JU2243 | 9.13 | 3.67 |
| 853-7961B 1977 | JU2242 | 8.97 | 3.51 |
| 853-7961C 1977 | JU2241 | 7.33 | 1.87 |
| 853-7961D 1977 | JU2240 | 8.37 | 2.91 |
| 853-7961E 1977 | JU2239 | 10.08 | 4.62 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-7979 SALEM, SALEM RIVER NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 9/78 TO 12/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-7961 SINNICKSON NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.67 FEET |
| MEAN HIGH WATER (MHW) | = | 4.34 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.26 FEET |
| MEAN LOW WATER (MLW) | = | 0.17 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-7979A 1978 | JU2238 | 8.67 | 4.33 |
| 853-7979B 1978 | JU2245 | 10.01 | 5.67 |
| 853-7979C 1978 | JU2237 | 11.69 | 7.35 |
| 1 | | 10.40 | 6.06 |
| T9 1930 | JU0652 | 14.70 | 10.36 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8055 MILL CREEK, PENNS NECK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/9 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-9761 SINNICKSON, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.43 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE MHW</u> |
|---------------------------|--|
| 853-8055 A 1978 | 2.55 |
| 853-8055 B 1978 | 2.47 |
| 853-8055 C 1978 | 2.09 |
| 853-8055 D 1978 | 6.10 |
| 853-8055 E 1978 | 6.11 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8086 KATES CREEK MEADOW, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 78/9 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.27 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE <u>MHW</u> |
|---------------------------|------------------------|---------------------------------------|
| 853-8086 A 1978 | | 4.96 |
| 853-8086 B 1978 | AI4347 | 5.98 |
| 853-8086 C 1978 | | 3.34 |
| 853-8086 D 1978 | | 4.21 |
| 853-8086 E 1978 | | 8.92 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8095 WINSLOW FARMS SALEM RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|----------------------------|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 78/6 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854- 5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.26 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE <u>MHW</u> |
|---------------------------|-------------------------------|---------------------------------------|
| 853-8095 A 1977 | | 2.13 |
| 853-8095 B 1977 | | 2.53 |
| 853-8095 C 1977 | | 3.83 |
| 853-8095 D 1977 | | 6.03 |
| 853-8095 E 1977 | <u>AI4351</u> | 7.57 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8138 BEAVER DAM NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTH |
| TIME PERIOD | = | 78/8 TO 78/11 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | |
|-------------------------------|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | 0.26 FEET |
| = | |

| | |
|-----------------------|-----------|
| MEAN HIGH WATER (MHW) | 0.00 FEET |
| = | |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE MHW</u> |
|---------------------------|------------------------------------|
| 853-8138 A 1978 | 1.81 |
| 853-8138 B 1978 | 1.20 |
| 853-8138 C 1978 | 1.60 |
| 853-8138 D 1978 | 2.26 |
| 1 | 1.54 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8231 DEEPWATER GENERATING CO. NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 6/77 TO 5/78 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.14 FEET |
| MEAN HIGH WATER (MHW) | = | 5.75 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.96 FEET |
| MEAN LOW WATER (MLW) | = | 0.17 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8231A 1977 | JU2202 | 10.93 | 5.18 |
| 853-8231B 1977 | JU2208 | 10.04 | 4.29 |
| 853-8231C 1977 | JU2209 | 10.00 | 4.25 |
| 853-8231D 1977 | JU2210 | 10.03 | 4.28 |
| 2952D | JU2206 | 12.38 | 6.63 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8274 AUBURN, OLDMANS CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 77/10 TO 77/10 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853- 8369 PEDRICKTOWN, OLDMANS CREEK, NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.18 FEET |
| MEAN HIGH WATER (MHW) | = | 2.99 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.63 FEET |
| MEAN LOW WATER (MLW) | = | 0.27 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8274 B 1977 | | 19.22 | 16.23 |
| 853-8274 C 1977 | | 19.29 | 16.30 |
| 853-8274 D 1977 | | 21.37 | 18.38 |
| 853-8274 E 1977 | AI4346 | 27.35 | 24.36 |
| OLDMANS 1933 | JU3235 | 20.86 | 17.87 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8355 SWEDESBORO, RACCOON CREEK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 6 MONTH |
| TIME PERIOD | = | 77/10 TO 78/5 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION, REFERRED TO MEAN HIGH WATER.

| | |
|---------------------------|------------|
| <u>BENCHMARK STAMPING</u> | <u>MHW</u> |
| 853-8355 A 1977 | 11.69 |
| 853-8355 B 1977 | 12.85 |
| 853-8355 C 1977 | 11.74 |
| 853-8355 D 1977 | 12.32 |
| 835-8355 E 1977 | 12.61 |

NOTE:

ORIGINAL DATA NOT AVAILABLE, DATA COMPUTED BY APPLYING DIFFERENCE
BETWEEN EPOCHS RECORDED AT THEIR CONTROL STATIONS

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8369 PEDRICKTOWN, OLDMANS CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 7 MONTH |
| TIME PERIOD | = | 77/5 TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.67 FEET |
| MEAN HIGH WATER (MHW) | = | 4.43 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.34 FEET |
| MEAN LOW WATER (MLW) | = | 0.25 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8369 A 1977 | | 7.35 | 2.92 |
| 853-8369 B 1977 | | 7.34 | 2.91 |
| 853-8369 C 1977 | | 14.43 | 10.00 |
| PEDRICKTOWN 1933 | JU3308 | 7.80 | 3.37 |
| PEDRICKTOWN RM 1 1933 | | 11.19 | 6.76 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853 – 8438 MANTUA, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 5 MONTHS |
| TIME PERIOD | = | 78/5 TO 78/9 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853- 8512 MANTUA CREEK PAULSBORO NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.64 FEET |
| MEAN HIGH WATER (MHW) | = | 4.37 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.29 FEET |
| MEAN LOW WATER (MLW) | = | 0.21 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-8438 A 1978 | 25.28 | 20.91 |
| 853-8438 B 1978 | 37.39 | 33.02 |
| 853-8438 C 1978 | 39.52 | 35.15 |
| 853-8438 D 1978 | 42.47 | 38.10 |
| 853-8438 E 1978 | 44.10 | 39.73 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8449 BRIDGEPORT, RACoon CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 78/3 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854- 5530 PHILADELPHIA PA |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.94 FEET |
| MEAN HIGH WATER (MHW) | = | 5.59 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.89 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8449 A 1977 | | 7.33 | 1.74 |
| 853-8449 B 1977 | | 10.97 | 5.38 |
| 853-8449 C 1977 | | 16.33 | 10.74 |
| 853-8449 D 1977 | | 12.52 | 6.93 |
| G 10 1930 | JU0663 | 11.58 | 5.99 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8479 SUNSET BEACH, BIG TIMBER CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 77/10 TO 77/10 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 853-8601 BIG TIMBER CREEK WESTVILLE NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.31 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE <u>MHW</u> |
|---------------------------|---------------------------------------|
| 853-8479 A 1977 | 11.50 |
| 853-8479 B 1977 | 4.10 |
| 853-8479 C 1977 | 2.85 |
| 853-8479 D 1977 | 7.09 |
| 853-8479 E 1977 | 17.46 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8512 PAULSBORO, MANTUA CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 8/77 TO 7/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.17 FEET |
| MEAN HIGH WATER (MHW) | = | 5.79 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.98 FEET |
| NGVD 1929* | = | 2.11 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

*NGVD IS BASED ON ELEVATIONS PUBLISHED IN QUAD 390751, 6/82 AND NOS LEVELING OF 7/19/77

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8512 A 1977 | | 10.95 | 5.14 |
| 853-8512 B 1977 | | 14.99 | 9.20 |
| 853-8512 C 1977 | | 17.01 | 11.22 |
| M 10 1930 | JU0669 | 11.69 | 5.90 |
| L 10 1930 | JU0668 | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8548 WOODBURY CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 78/4 TO 78/5 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.38 |
| MEAN HIGH WATER (MHW) | = | 5.98 |
| MEAN TIDE LEVEL (MTL) | = | 3.08 |
| MEAN LOW WATER (MLW) | = | 0.17 |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | ELEVATION IN FEET ABOVE | |
|---------------------------|-------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-8548 A 1977 | 7.69 | 1.71 |
| 853-8548 B 1977 | 6.87 | 0.89 |
| 853-8548 C 1977 | 5.20 | -0.78 |
| 853-8548 D 1977 | 12.24 | 6.26 |
| 853-8548 E 1977 | 25.61 | 19.63 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8552 BILLINGSPORT, DELAWARE BAY, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 4 MONTHS |
| TIME PERIOD | = | 81/6 TO 81/9 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.24 FEET |
| MEAN HIGH WATER (MHW) | = | 5.84 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.01 FEET |
| MEAN LOW WATER (MLW) | = | 0.18 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8552 A 1980 | AI4334 | 24.73 | 18.89 |
| 853-8552 B 1980 | | 25.35 | 19.51 |
| 853-8552 C 1980 | | 25.87 | 20.03 |
| 853-8552 D 1980 | | 30.49 | 24.65 |
| 853-8552 E 1980 | | 31.21 | 25.37 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8601 WESTVILLE, BIG TIMBER CREEK, NJ

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 8 MONTHS |
| TIME PERIOD | = | 77/4 TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.44 FEET |
| MEAN HIGH WATER (MHW) | = | 6.05 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.12 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8601 A 1977 | | 7.43 | 1.38 |
| 853-8601 D 1977 | | 21.20 | 15.15 |
| 853-8601 E 1977 | | 14.26 | 8.21 |
| 14.108 S10 1930 | JU0676 | 16.22 | 10.17 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8752 PAVONIA, COOPER RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 9 MONTHS |
| TIME PERIOD | = | 78/3 TO 78/11 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.90 FEET |
| MEAN HIGH WATER (MHW) | = | 6.51 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.35 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8752 A 1977 | | 8.67 | 2.16 |
| 853-8752 B 1977 | | 10.86 | 4.35 |
| 853-8752 C 1977 | AI4367 | 11.07 | 4.56 |
| 853-8752 D 1977 | | 13.97 | 7.46 |
| R 63 1963 | JU0694 | 11.24 | 4.73 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8824 HAINESPORT, RANOCAS CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 2 MONTH |
| TIME PERIOD | = | 77/10 TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 853-8921 BRIDGEBORO NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 4.12 FEET |
| MEAN HIGH WATER (MHW) | = | 3.87 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.04 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-8824 A 1977 | 11.94 | 8.07 |
| 853-8824 B 1977 | 27.72 | 23.85 |
| 853-8824 C 1977 | 30.70 | 26.83 |
| 853-8824 D 1977 | 24.85 | 20.98 |
| 853-8824 E 1977 | 22.58 | 18.71 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8831 CINNAMINSON, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 4 MONTH |
| TIME PERIOD | = | 78/7 TO 78/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN HIGH WATER (MHW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.30 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-8831 A 1978 | | 17.18 |
| 853-8831 B 1978 | | 17.36 |
| 853-8831 C 1978 | | 17.81 |
| 853-8831 D 1978 | | 16.89 |
| 853-8831 E 1978 | | 16.93 |
| 853-8831 F 1978 | | 9.67 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8848 NORTH BRANCH, RANCOCAS CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|-------------------------|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 77/10 TO 77/10 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 853-8921 BRIDGEBORO NJ. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 3.24 FEET |
| MEAN HIGH WATER (MHW) | = | 3.00 FEET |
| MEAN TIDE LEVEL (MTL) | = | 1.56 FEET |
| MEAN LOW WATER (MLW) | = | 0.12 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|--------------------------------|------------|
| | <u>MLLW</u> | <u>MHW</u> |
| 853-8848 A 1977 | 4.57 | 1.57 |
| 853-8848 B 1977 | 5.84 | 2.84 |
| 853-8848 C 1977 | 5.17 | 2.17 |
| 853-8848 D 1977 | 7.53 | 4.53 |
| 853-8848 E 1977 | 9.31 | 6.31 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8853 PALMYRA, PENNSAUKEN CREEK

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 4/78 TO 10/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 5.80 FEET |
| MEAN HIGH WATER (MHW) | = | 5.46 FEET |
| MEAN TIDE LEVEL (MTL) | = | 2.84 FEET |
| MEAN LOW WATER (MLW) | = | 0.23 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8853A 1977 | AB6686 | 11.77 | 6.31 |
| 853-8853B 1977 | | 16.13 | 10.67 |
| 853-8853C 1977 | | 10.09 | 4.63 |
| 853-8853D 1977 | | 11.50 | 6.04 |
| 853-8853E 1977 | | 19.77 | 14.31 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8875 POMPESTON CREEK, DELAWARE RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 2 MONTH |
| TIME PERIOD | = | 77/10 TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.83 FEET |
| MEAN HIGH WATER (MHW) | = | 6.46 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.28 FEET |
| MEAN LOW WATER (MLW) | = | 0.10 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8875 A 1977 | | 7.34 | 0.88 |
| 853-8875 B 1977 | AB6684 | 14.10 | 7.64 |
| 853-8875 C 1977 | AB6685 | 14.72 | 8.26 |
| 853-8875 D 1977 | AB6683 | 15.89 | 9.43 |
| V 75 1974 | KV1863 | 9.66 | 3.20 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8886 TACONY-PALMYRA BRIDGE

[1983-2001 NOAA](#)

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-8921 BRIDGEBORO, RANCOCAS CREEK, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 7 MONTHS |
| TIME PERIOD | = | 78/6 TO 78/12 |
| TIDAL EPOCH | = | 1966-1984 (1960-1978) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 6.96 FEET |
| MEAN HIGH WATER (MHW) | = | 6.60 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.40 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID #</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-8921A 1977 | AI9763 | 21.33 | 14.73 |
| 853-8921B 1977 | AI9764 | 27.29 | 20.69 |
| 853-8921C 1977 | | 26.47 | 19.87 |
| 853-8921D 1977 | | 27.13 | 20.53 |
| 853-8921E 1977 | | 22.15 | 15.55 |
| 853-8921F 1977 | KV6652 | | |
| 853-8921G 1977 | AI9765 | | |
| 853-8921H 1977 | | | |
| 853-8921J | AI9766 | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-9058 ASSISCUNK CREEK, DELAWARE RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 2 MONTHS |
| TIME PERIOD | = | 77/10 TO 77/11 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 853-9094 BURLINGTON NJ |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 7.28 FEET |
| MEAN HIGH WATER (MHW) | = | 6.91 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.54 FEET |
| MEAN LOW WATER (MLW) | = | 0.17 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-9058A 1977 | KV6660 | 15.57 | 8.66 |
| 853-9058B 1977 | KV6661 | 17.75 | 10.84 |
| 853-9058C 1977 | KV6662 | 12.62 | 5.71 |
| 853-9058D 1977 | KV6663 | 9.97 | 3.06 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-9094 BURLINGTON, DELAWARE RIVER, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 77-3 TO 78- 2 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 854- 5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 7.86 FEET |
| MEAN HIGH WATER (MHW) | = | 7.47 FEET |
| MEAN TIDE LEVEL (MTL) | = | 3.83 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-9094A 1977 | AI9759 | 15.21 | 7.74 |
| 853-9094B 1977 | AI9758 | 15.17 | 7.70 |
| 853-9094C 1977 | AI9760 | 12.55 | 5.08 |
| 853-9094D 1977 | | 12.79 | 5.32 |
| 853-9094E 1977 | AI9761 | 12.64 | 5.17 |
| B 76 1974 | KV1161 | 20.44 | 12.97 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-9487 FIELDSBORO, DELAWARE RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 10 MONTHS |
| TIME PERIOD | = | 4/77 TO 1/78 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 8.45 FEET |
| MEAN HIGH WATER (MHW) | = | 8.06 FEET |
| MEAN TIDE LEVEL (MTL) | = | 4.13 FEET |
| MEAN LOW WATER (MLW) | = | 0.19 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE</u> | |
|---------------------------|------------------------|--------------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-9487A 1977 | KV5987 | 14.00 | 5.94 |
| 853-9487B 1977 | | 14.75 | 6.69 |
| 853-9487C 1977 | KV5988 | 14.10 | 6.04 |
| 853-9487D 1977 | KV5989 | 38.47 | 30.41 |
| 853-9487E 1977 | KV5990 | 53.21 | 45.15 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-9494 BLACKS CREEK, DELAWARE RIVER NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 3 MONTHS |
| TIME PERIOD | = | 10/77 TO 12/77 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.36 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE <u>MHW</u> |
|---------------------------|------------------------|---------------------------------------|
| 853-9494A 1977 | | 6.90 |
| 853-9494B 1977 | | 48.55 |
| 853-9494C 1977 | KV5993 | 55.61 |
| 853-9494D 1977 | KV5991 | 47.94 |
| 853-9494E 1977 | KV5992 | 48.06 |
| B 76 1974 | | |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-9776 UPPER CROSSWICKS CREEK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 1 MONTH |
| TIME PERIOD | = | 5/78 TO 5/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID # | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-9776A 1978 | | | 12.30 |
| 853-9776B 1978 | | | 12.60 |
| 853-9776C 1978 | | | 17.92 |
| 853-9776D 1978 | | | 11.56 |
| Y 74 1974 | KV1138 | | 12.63 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-9808 SYLVAN GLEN, CROSSWICKS CREEK NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|---------------------------|
| LENGTH OF SERIES | = | 11 MONTHS |
| TIME PERIOD | = | 4/77 TO 3/78 |
| TIDAL EPOCH | = | 1966-1984 |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 0.29 FEET |
| MEAN HIGH WATER (MHW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | <u>NGS PID#</u> | <u>ELEVATION IN FEET ABOVE MHW</u> |
|---------------------------|------------------------|------------------------------------|
| 853-9808A 1977 | KV6002 | 11.04 |
| 853-9808B 1977 | KV6003 | 11.08 |
| 853-9808C 1977 | | 9.74 |
| 853-9808D 1977 | | 20.52 |
| 853-9808E 1977 | | 34.16 |

TIDAL DATUMS AND BENCHMARK ELEVATION SHEET

853-9993 TRENTON MARINE TERMINAL, NJ.

TIDAL DATUMS AT THIS STATION ARE BASED ON THE FOLLOWING:

| | | |
|------------------|---|--|
| LENGTH OF SERIES | = | 60 MONTHS |
| TIME PERIOD | = | 1/78 TO 12/82 |
| TIDAL EPOCH | = | 1966-1984 (1983-2001) NOAA |
| CONTROL STATION | = | 854-5530 PHILADELPHIA PA. |

ELEVATIONS OF TIDAL DATUMS REFERRED TO MEAN LOWER LOW WATER (MLLW) ARE AS FOLLOWS:

| | | |
|-------------------------------|---|-----------|
| MEAN HIGHER HIGH WATER (MHHW) | = | 8.73 FEET |
| MEAN HIGH WATER (MHW) | = | 8.35 FEET |
| MEAN TIDE LEVEL (MTL) | = | 4.27 FEET |
| MEAN LOW WATER (MLW) | = | 0.20 FEET |
| MEAN LOWER LOW WATER (MLLW) | = | 0.00 FEET |

NO NGVD CONNECTION AT THIS STATION

BENCH MARK ELEVATION INFORMATION

| <u>BENCHMARK STAMPING</u> | NGS PID# | ELEVATION IN FEET ABOVE | |
|---------------------------|------------------------|-------------------------|------------|
| | | <u>MLLW</u> | <u>MHW</u> |
| 853-9993A 1982 | KV6014 | 15.76 | 7.41 |
| 853-9993B 1982 | KV6013 | 16.99 | 8.64 |
| 853-9993C 1981 | KV6011 | 20.85 | 12.50 |
| 853-9993D 1982 | KV6016 | 17.39 | 9.04 |
| 853-9993E 1983 | KV6012 | 18.22 | 9.87 |
| 853-9993F 1983 | | 22.73 | 14.38 |
| 853-9993G 1983 | | 13.43 | 5.08 |
| 2 1952 | KV1079 | 18.03 | 9.68 |
| (unstamped) | | 15.35 | 7.00 |