

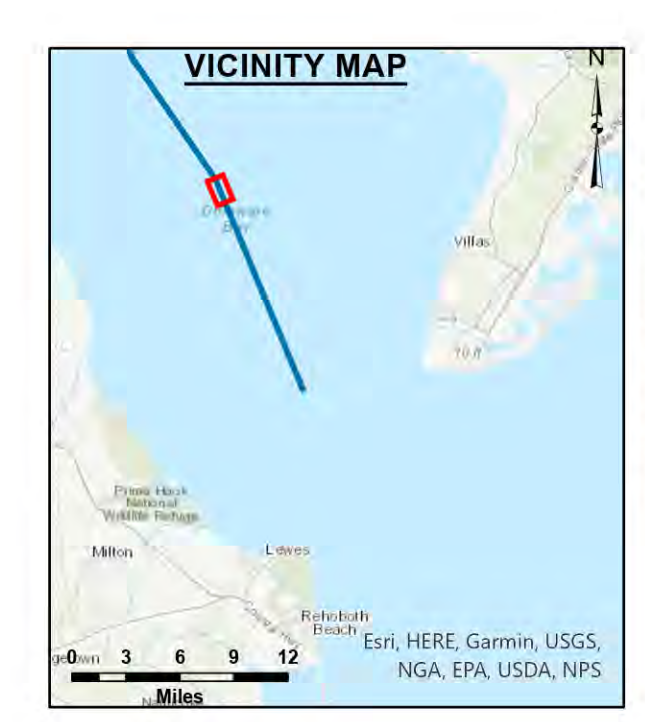
STA. 447+734 to STA. 454+000 - 03 FEB 25
 STA. 464+000 to STA. 460+000 - 23 DEC 24
 STA. 460+000 to STA. 466+000 - 10 MAR 25
 STA. 466+000 to STA. 472+000 - 25 NOV 24

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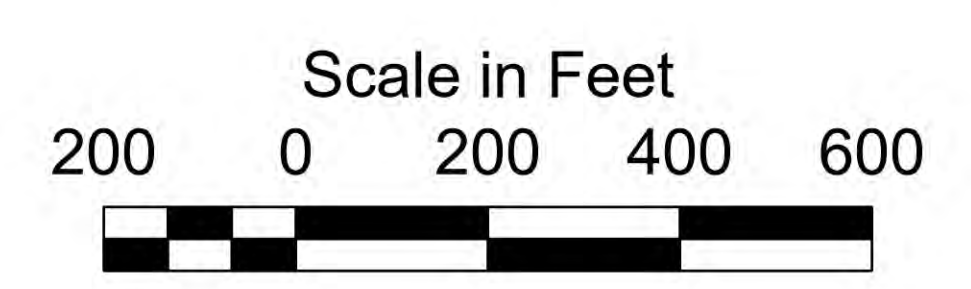
U.S. ARMY CORPS OF ENGINEERS
 PHILADELPHIA DISTRICT
 Drawing Number: _____
 Prepared By: E. Anthony
 Checked By: _____
 Approved: _____
 Chief Survey Station

DELAWARE RIVER, PHILADELPHIA TO THE SEA
 EXAMINATION
 BRANDYWINE RANGE
 STA. 447-734.15 to STA. 515+000

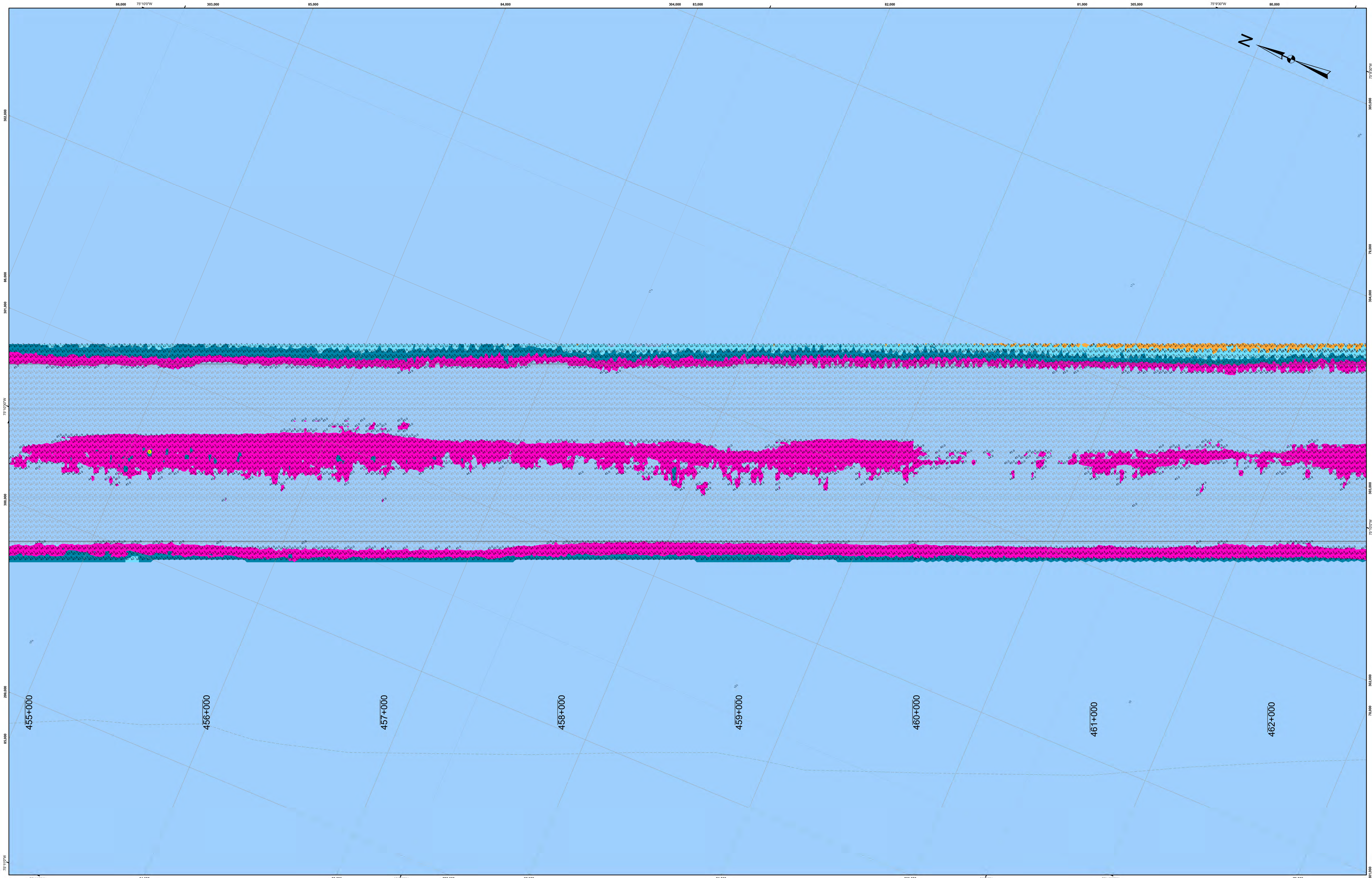
E-PS-344



- THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.
- HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.
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- CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15'X15' CELL.
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- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- QuarterLine
- StationLine
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40



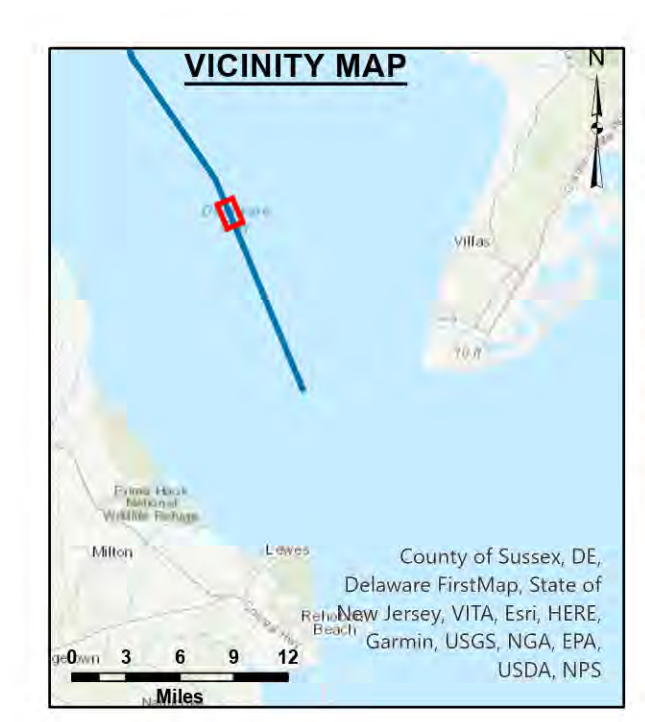
STA. 447+734 to STA. 454+000 - 03 FEB 25
 STA. 454+000 to STA. 460+000 - 23 DEC 24
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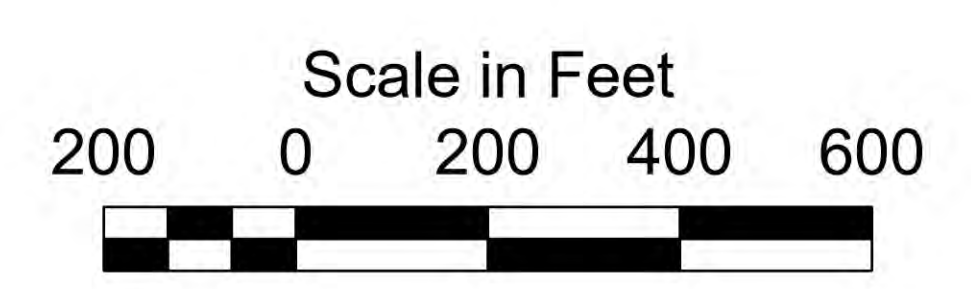
U.S. ARMY CORPS OF ENGINEERS
 PHILADELPHIA DISTRICT
 Surveyed By: _____
 Plotted By: E. Anthony
 Checked By: _____
 Approved: Chief Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
 EXAMINATION
 BRANDYWINE RANGE
 STA. 447+734.15 to STA. 515+000

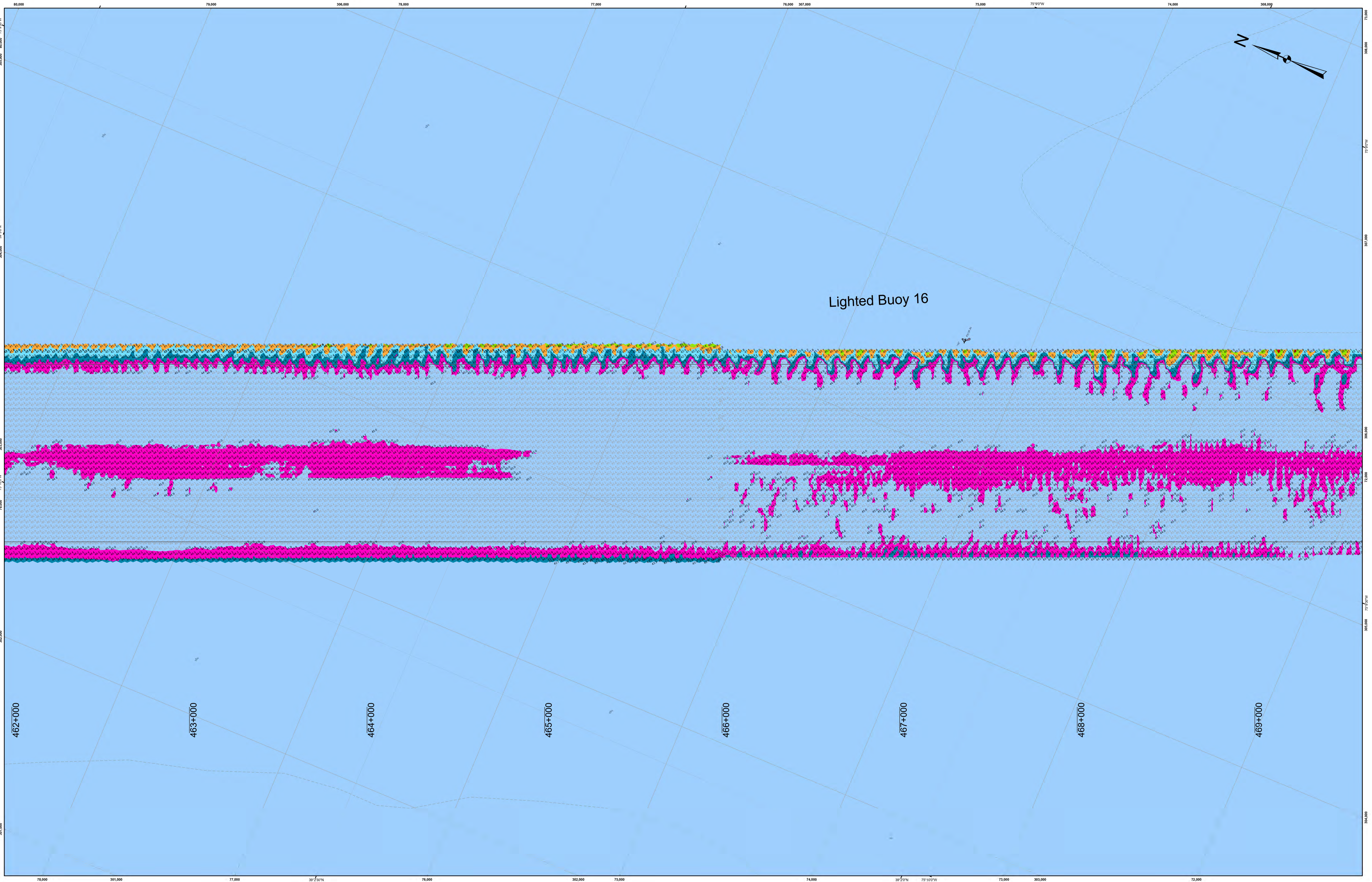
E-PS-344



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- CenterLine
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- QuarterLine
- StationLine
- 45 - 53.953
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40



STA. 447+734 to STA. 454+000 - 03 FEB 25
 STA. 454+000 to STA. 460+000 - 23 DEC 24
 STA. 460+000 to STA. 466+000 - 10 MAR 25
 STA. 466+000 to STA. 472+000 - 25 NOV 24

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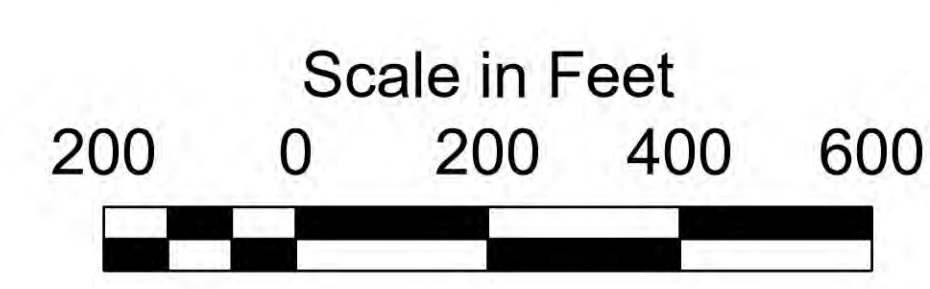
U.S. ARMY CORPS OF ENGINEERS
 PHILADELPHIA DISTRICT
 Drawing Number: _____
 Project Name: _____
 Project Date: _____
 Prepared By: E. Anthony
 Checked By: _____
 Approved: _____
 Chief Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
 EXAMINATION
 BRANDYWINE RANGE
 STA. 447-734.15 to STA. 515+000

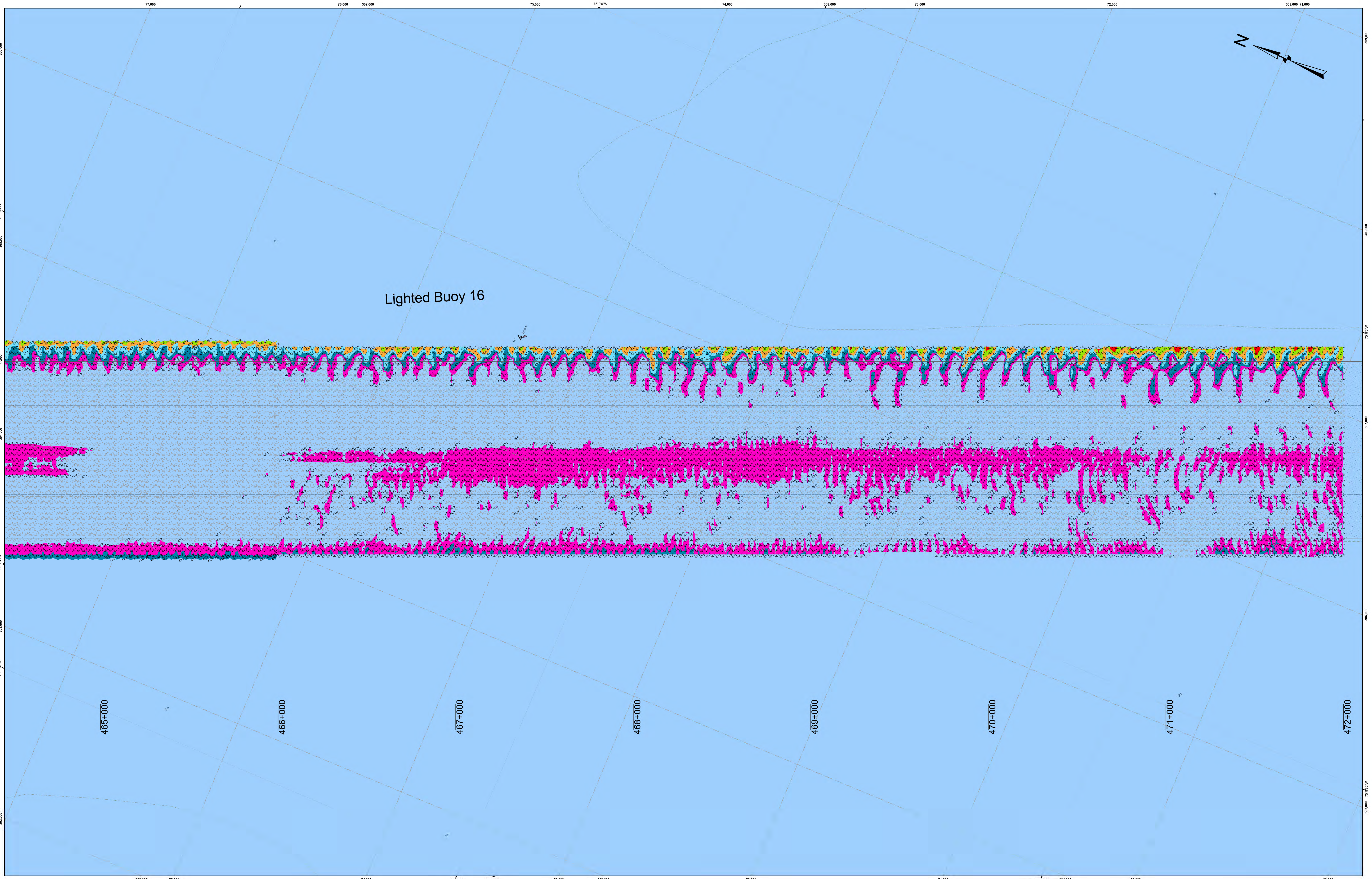
E-PS-344



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- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- QuarterLine
- StationLine
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40



STA. 447+734 to STA. 454+000 - 03 FEB 25
 STA. 464+000 to STA. 468+000 - 23 DEC 24
 STA. 468+000 to STA. 466+000 - 10 MAR 25
 STA. 466+000 to STA. 472+000 - 25 NOV 24

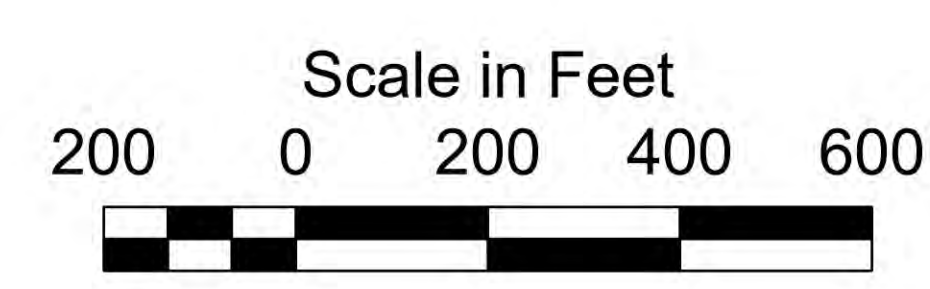
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U.S. ARMY CORPS OF ENGINEERS
 PHILADELPHIA DISTRICT
 Drawing Number: _____
 Project Name: _____
 Prepared By: E. Anthony
 Checked By: _____
 Approved: _____
 Chief Survey Station

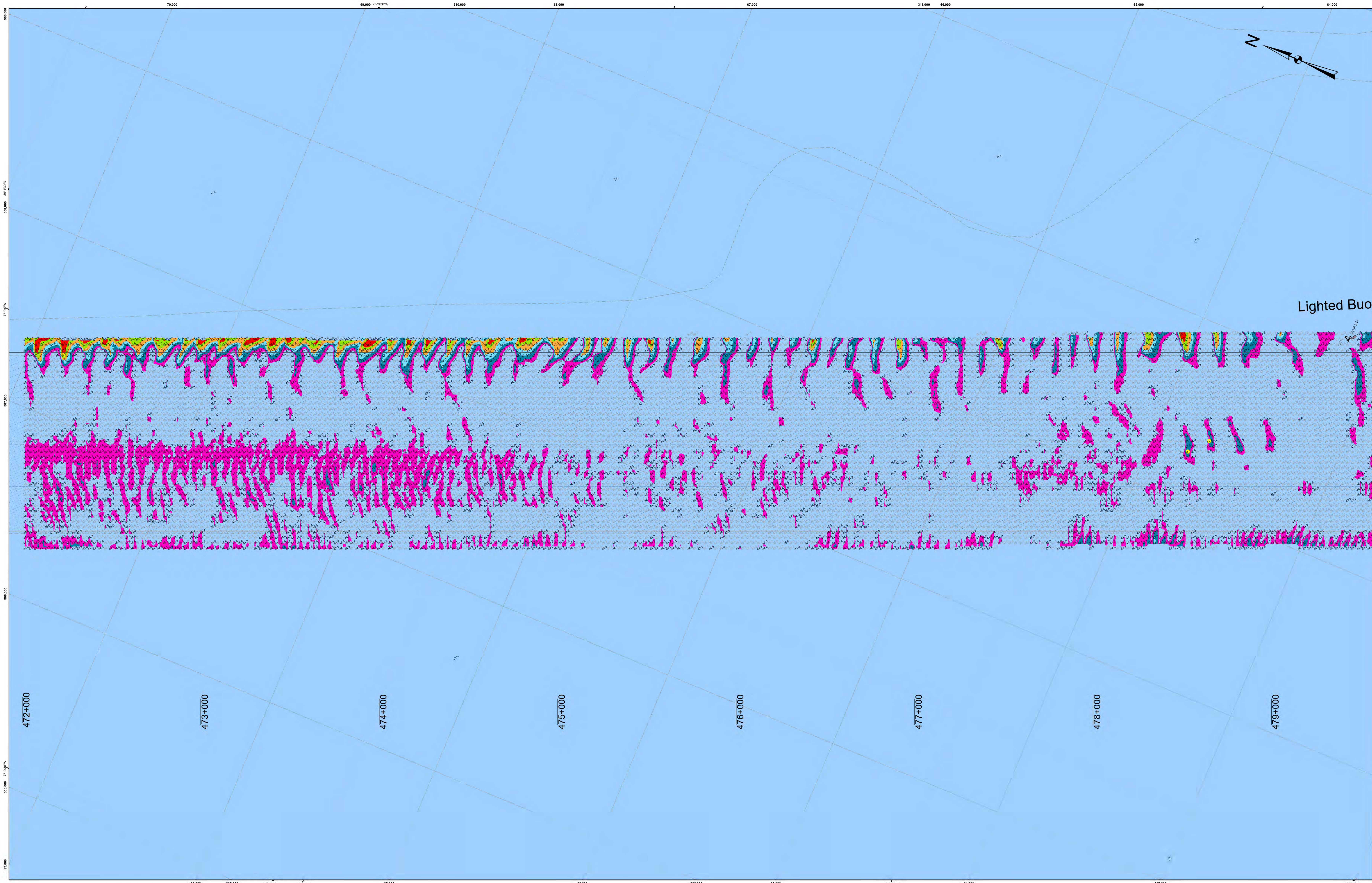
DELAWARE RIVER, PHILADELPHIA TO THE SEA
 EXAMINATION
 BRANDYWINE RANGE
 STA. 447+734.15 to STA. 515+000



1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.
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- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- QuarterLine
- StationLine
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40



STA. 472+000 to STA. 478+000 - 25 NOV 24
 STA. 478+000 to STA. 490+000 - 20 NOV 24

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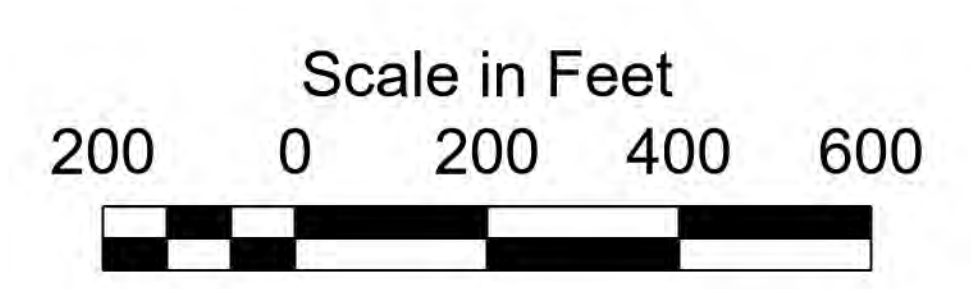
Surveyed By:	U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT
Checked By:	E. Anthony
Approved:	Chief Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA EXAMINATION BRANDYWINE RANGE
 STA. 447-734.15 to STA. 515+000

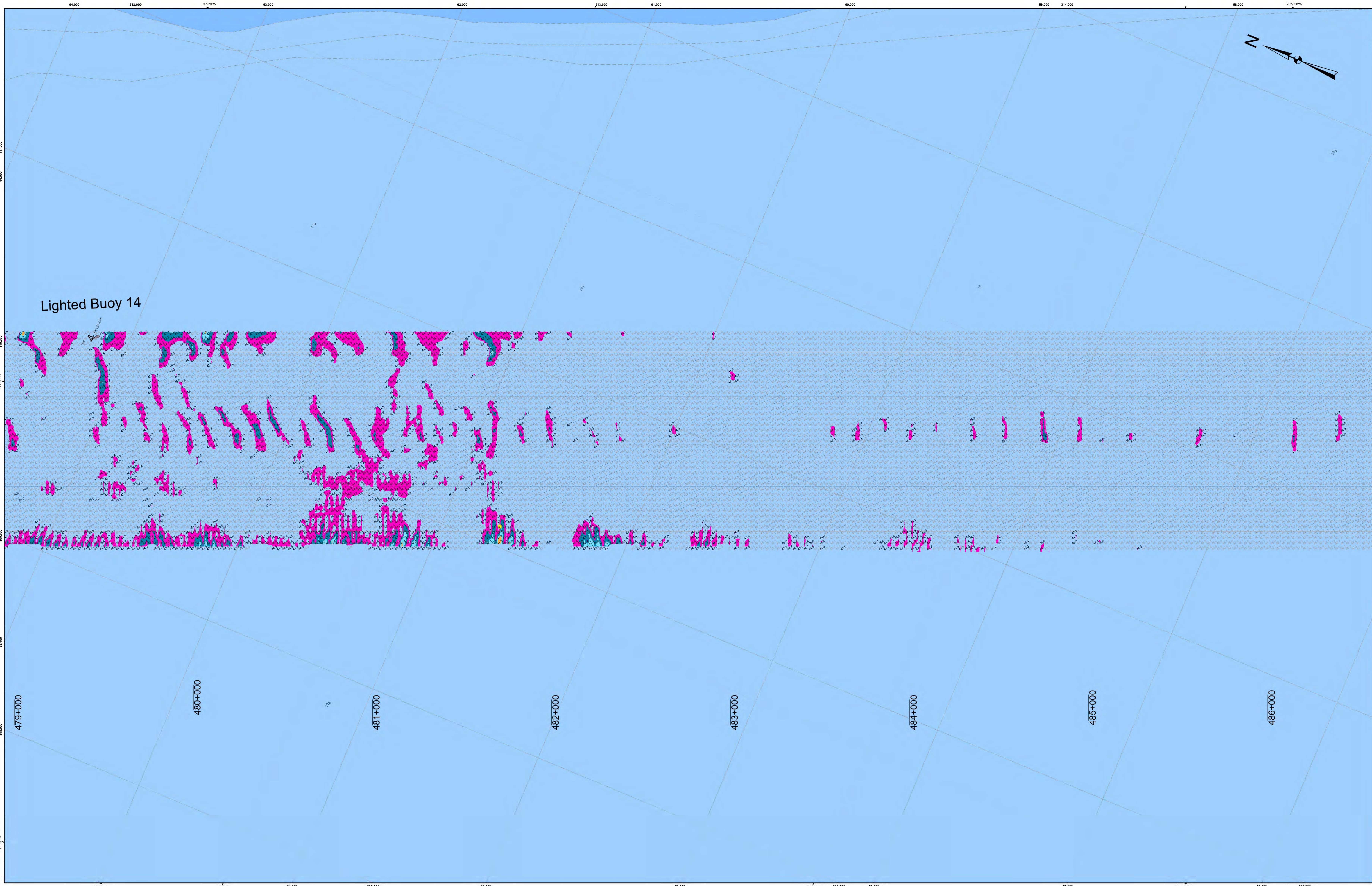
E-PS-306



- THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.
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- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- QuarterLine
- StationLine
- 45 - 53.953
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40



STA. 472+000 to STA. 478+000 - 25 NOV 24
STA. 478+000 to STA. 490+000 - 20 NOV 24

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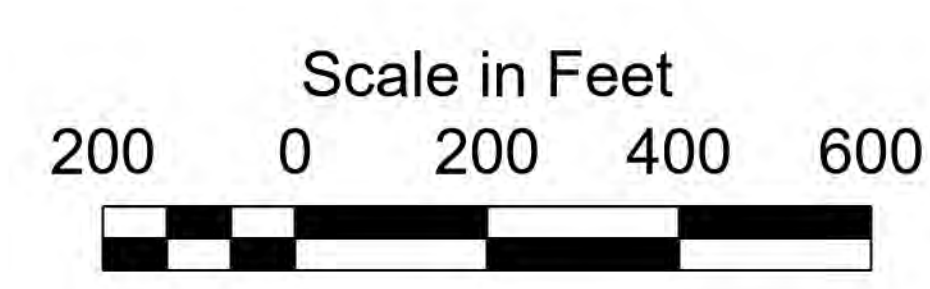
Drawn By:	Surveyed By:
Plot Scale:	Philadelphia District
Checked By:	E. Anthony
Approved:	Chief Survey Section

DELAWARE RIVER, PHILADELPHIA TO THE SEA
EXAMINATION
BRANDYWINE RANGE
STA. 447-734.15 to STA. 515+000

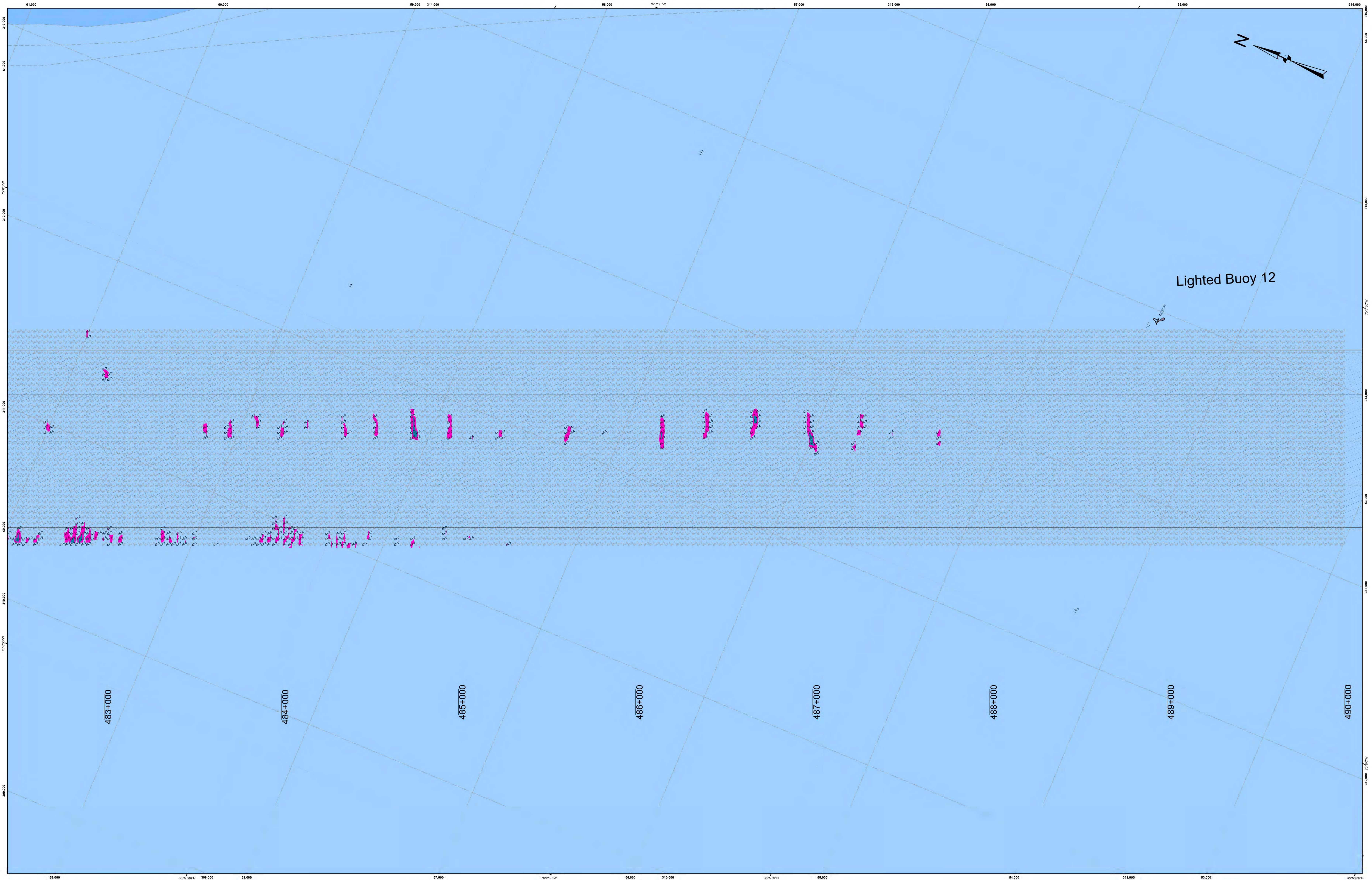
E-PS-306



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- Shoalest Sounding per Quarter
- CenterLine
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- 45 - 53.953
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U.S. ARMY CORPS OF ENGINEERS
 PHILADELPHIA DISTRICT

Drawn by: _____
 Checked by: _____
 E. Anthony
 Approved: _____
 Chief Survey Section

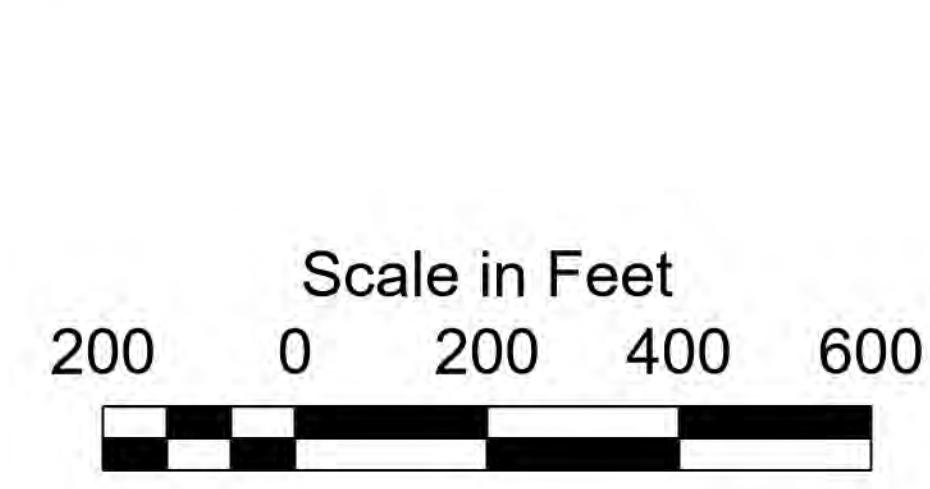
DELAWARE RIVER, PHILADELPHIA TO THE SEA
 EXAMINATION
 BRANDYWINE RANGE
 STA. 447+734.15 to STA. 515+000



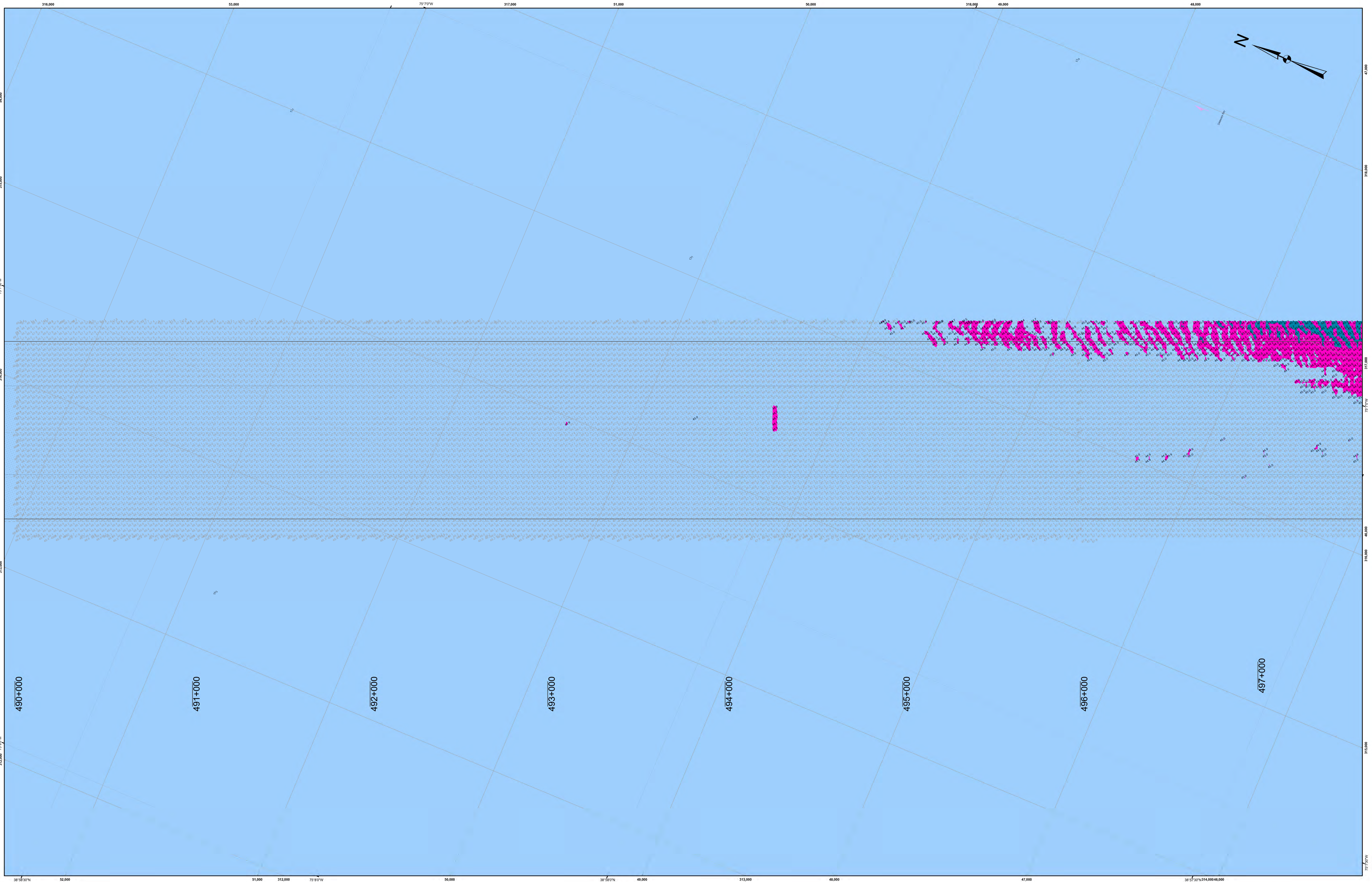
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- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40



STA. 490+000 to STA. 496+000 -- 03 MAR 25
 STA. 496+000 to STA. 502+000 -- 18 NOV 24
 STA. 502+000 to STA. 515+000 -- 19 NOV 24

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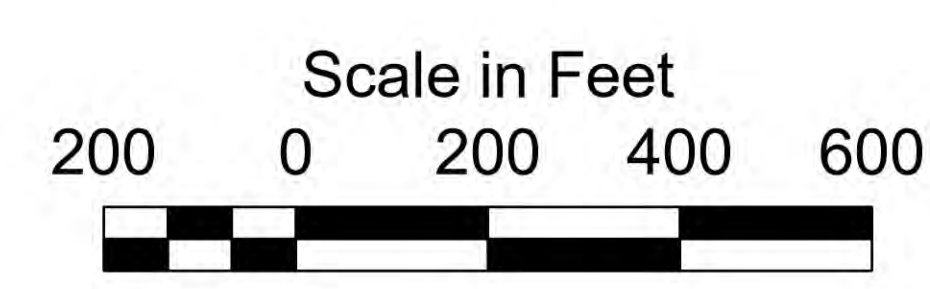
U.S. ARMY CORPS OF ENGINEERS
 PHILADELPHIA DISTRICT
 Drawing Number: _____
 Project Name: _____
 Project Date: _____
 Project Scale: _____
 Prepared By: E. Anthony
 Checked By: _____
 Approved: _____
 Chief Survey Station

DELAWARE RIVER, PHILADELPHIA TO THE SEA
 EXAMINATION
 BRANDYWINE RANGE
 STA. 447+734.15 to STA. 515+000

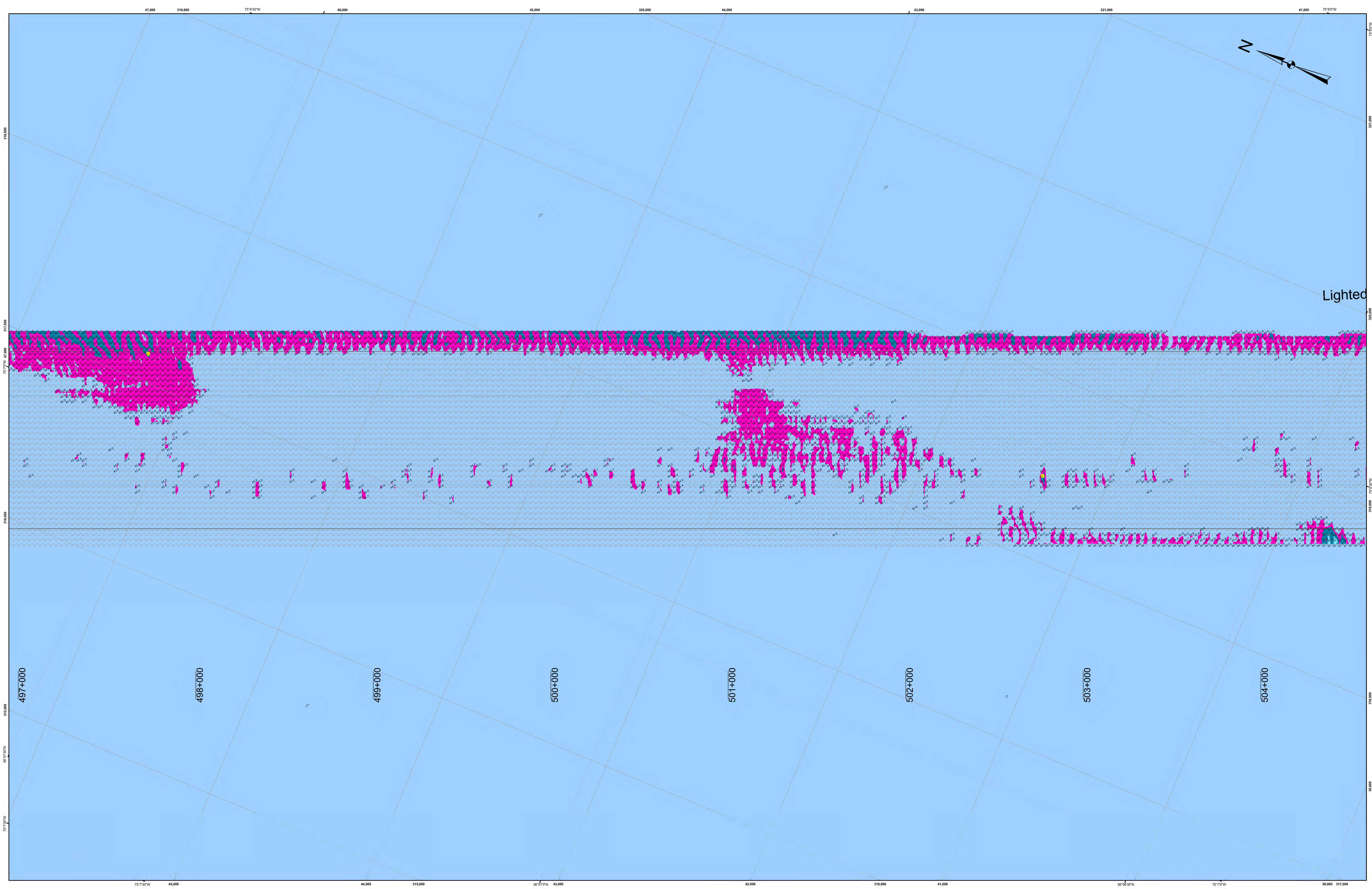
E-PS-343



1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.
2. HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.
3. VERTICAL REFERENCE - MEAN LOWER LOW WATER, WHICH IS 2.94' BELOW N.A.V.D. 88.
4. GEOID 12B AND NOAA TIDAL EPOCH: 1983 - 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.
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7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15'X15' CELL.
8. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.
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- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- QuarterLine
- StationLine
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40



STA. 490+000 to STA. 496+000 -- 03 MAR 25
 STA. 496+000 to STA. 502+000 -- 18 NOV 24
 STA. 502+000 to STA. 515+000 -- 19 NOV 24

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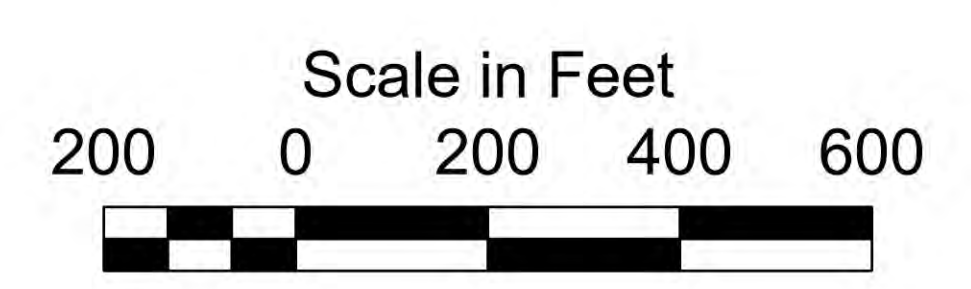
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DELAWARE RIVER, PHILADELPHIA TO THE SEA
 EXAMINATION
 BRANDYWINE RANGE
 STA. 447+734.15 to STA. 515+000

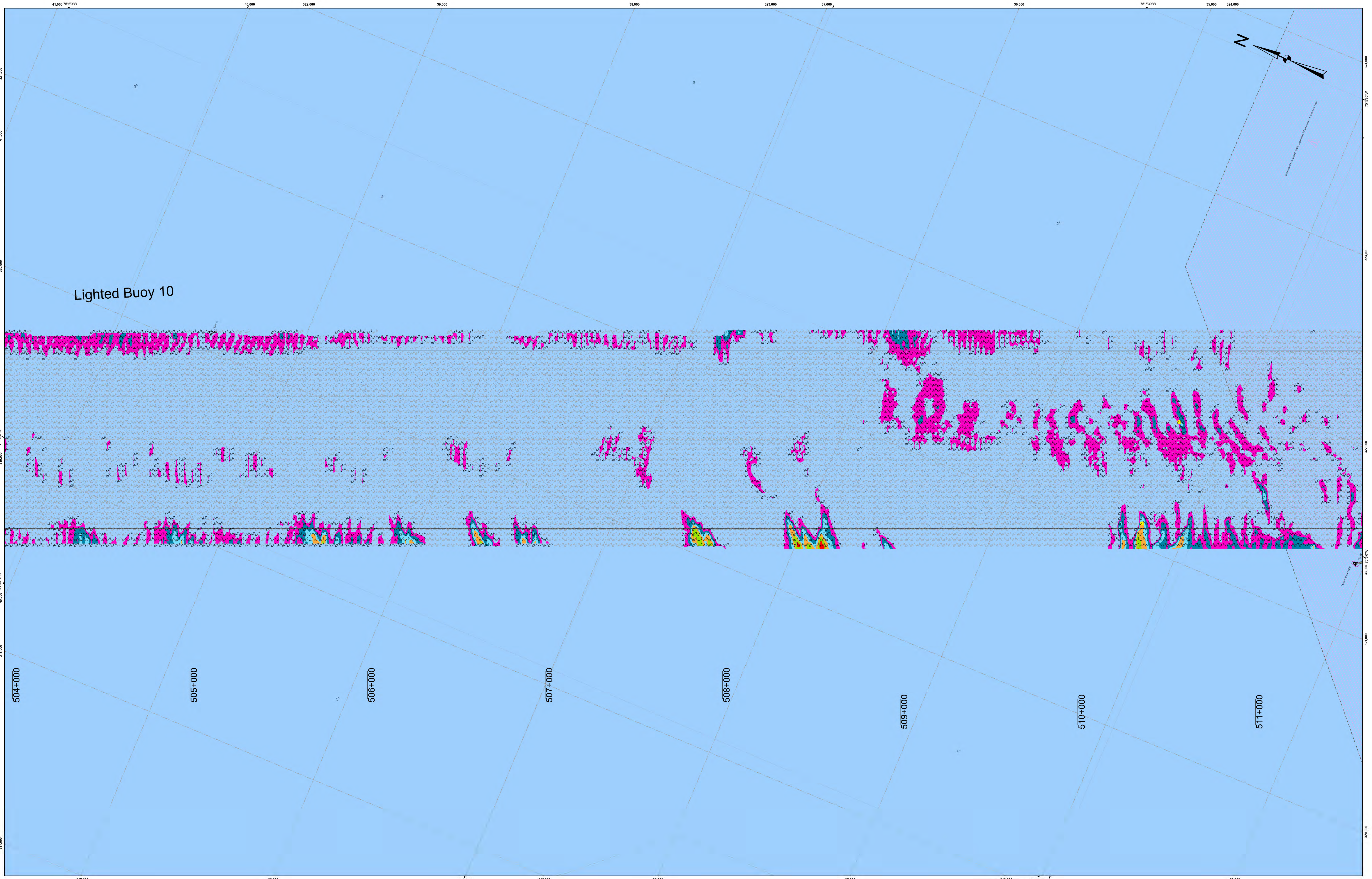
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- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- QuarterLine
- StationLine
- 45 - 53.953
- 44 - 45
- 43 - 44
- 42 - 43
- 41 - 42
- 40 - 41
- 26.9 - 40



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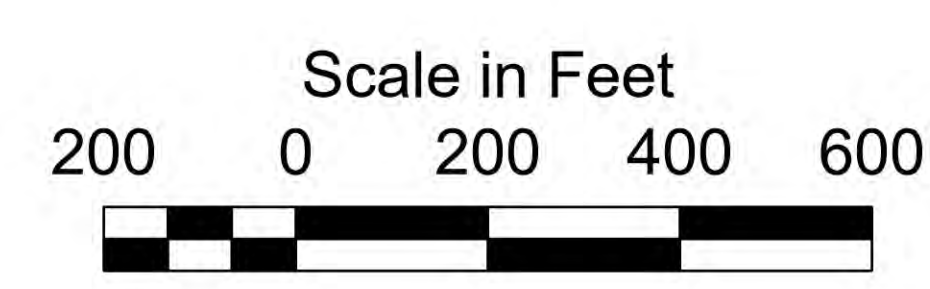
DELAWARE RIVER, PHILADELPHIA TO THE SEA
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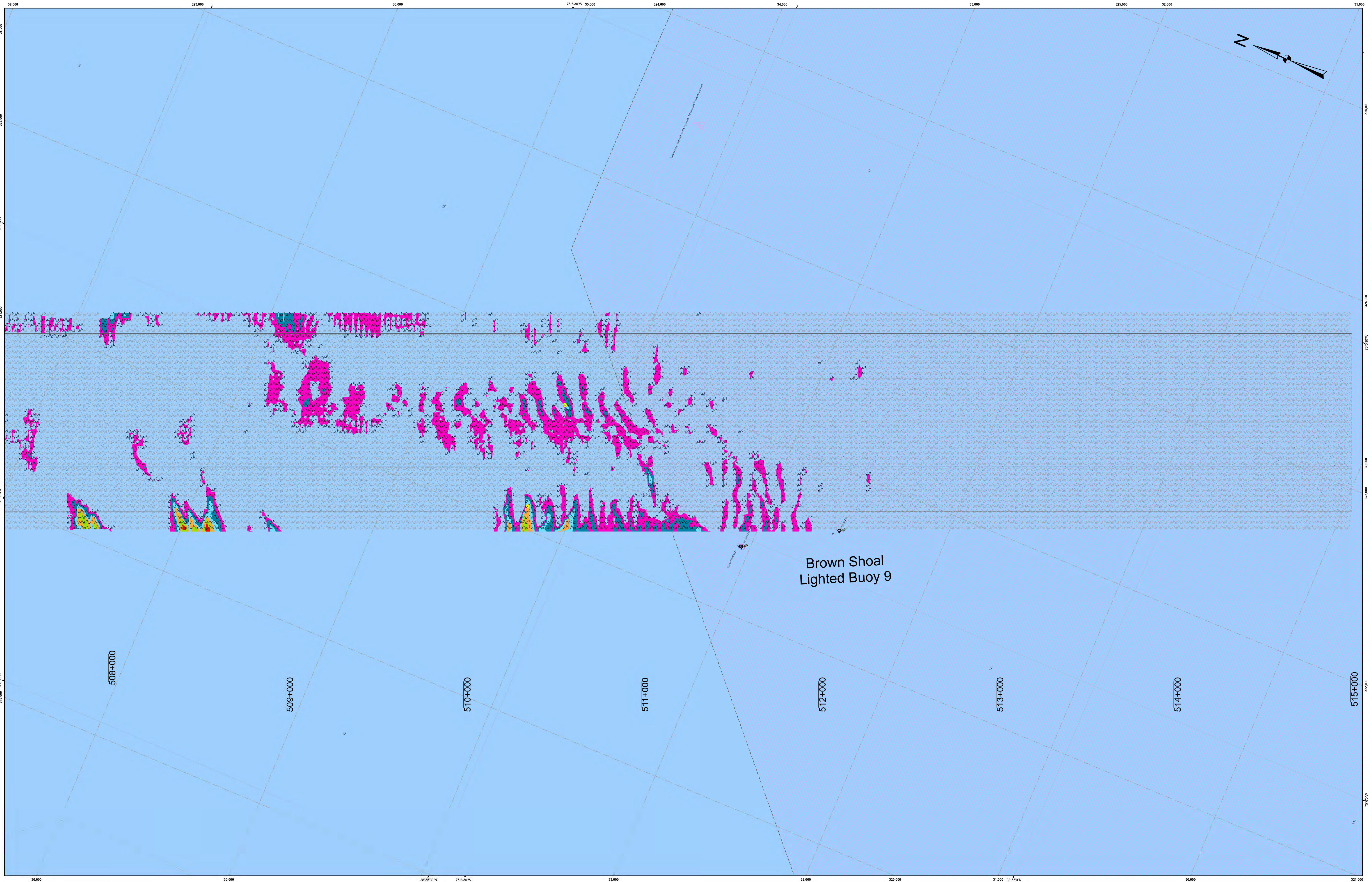
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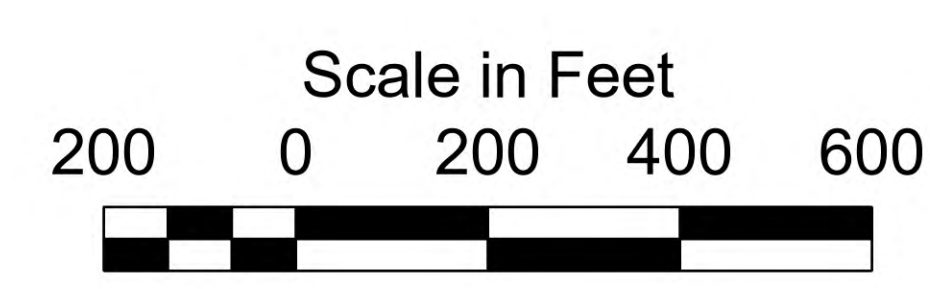
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DELAWARE RIVER, PHILADELPHIA TO THE SEA EXAMINATION
BRANDYWINE RANGE
 STA. 447+734.15 to STA. 515+000



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