

Monthly Mariner's Update for Coastal Virginia Offshore Wind	Date of Applicability	01 February 2025
	Issue:	02/25
	Revision:	00

The goal of the Monthly Mariner's Update is to give a high-level overview of ongoing and planned nearterm construction activities, and the vessels involved. Questions regarding construction operations are welcome, preferably well in advance of each construction activity. These questions and comments can be directed <u>here</u>.

- The USCG has created a GIS based Local Notice to Mariners product that is useful in visualizing project activities <u>Maritime Safety Information Products | Navigation Center</u>
- USCG Notice: Introducing the New <u>NAVCEN Maritime Safety Information Application</u>
- Previous issues of the CVOW Mariner's Update and additional resources can be found <u>here</u>.

Project Background Information

Offshore construction work for Coastal Virginia Offshore Wind (CVOW) commenced in February 2024 with relocation of Munitions of Explosive Concern (MECs). Monopile foundation installation began in May 2024, subsea cable installation activities began in August 2024, and Transition Piece (TP) installation commenced in late December 2024.

Dominion Energy will construct, own and operate the Coastal Virginia Offshore Wind (CVOW) Project (hereinafter referred to as the Project). The Project is located in the Commercial Lease of Submerged Lands for Renewable Energy Development on the Outer Continental Shelf Offshore Virginia (Lease No. OCS-A 0483), with buried subsea cables connecting CVOW to shore. The purpose of this Project is to provide 2.6 gigawatts of clean, reliable offshore wind energy to our customers, while providing substantial economic and environmental benefits to the Commonwealth of Virginia.

Offshore components of the Project will consist of the following:

- 176 Wind Turbine Generators (WTGs), each with a capacity of 14.7 megawatts, and associated monopile foundations;
- Three (3) Offshore Substations (OSS);
- Approximately 231 miles (372 kilometers) of total length of Inter-Array Cables (IACs) in the CVOW Lease Area; average IAC length of 5,868 feet (1,789 meters) between WTGs and connected to OSSs; and
- Nine (9) buried submarine high-voltage alternating-current Offshore Export Cables (OECs), approximately 350 miles (563 kilometers) of total length, connecting the OSSs to shore at the State Military Reservation (SMR) in Virginia Beach, VA.

The offshore project components, including the WTGs, OSSs, IACs and OECs, will be located in federal waters in the OCS-A 0483 Lease Area (Lease Area). Portions of the OECs will also be located in Commonwealth of Virginia waters (within three miles of shore).



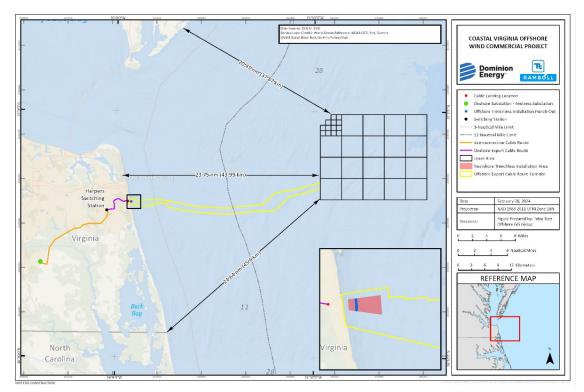


Figure 1: Boundary of CVOW project

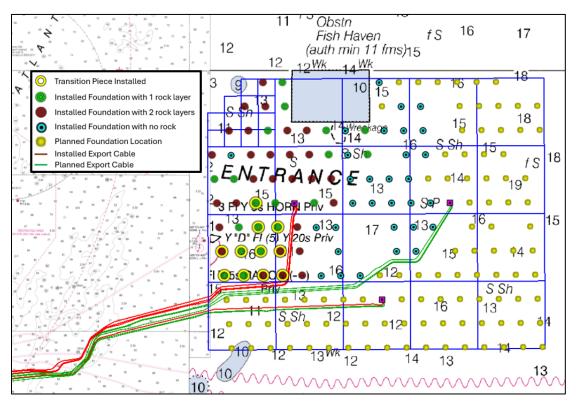


Figure 2:WTG and OSS Layout and Installation Status as of 28-JAN-2025

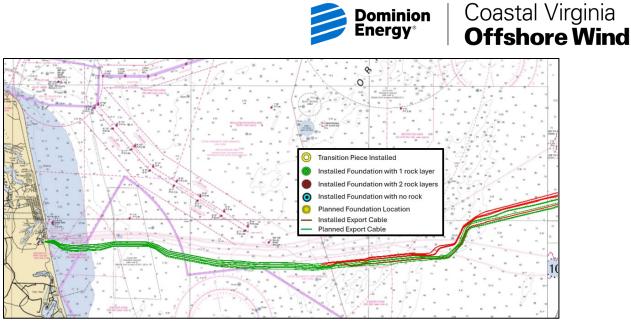


Figure 3: Offshore Export Cable (OEC) Installation Status as of 28-JAN-2025

CVOW GIS Shapefiles of the project area and export cable corridor are available here for download.

Work planned for the period of February 1 – February 28

- Transition Piece (TP) installation continues with the ORION being supported by the tugs OCEAN WAVE and ALERT as well as the barges JULIE B and 455-6.
- Pre-Lay Grapnel Runs (PLGR) and pre-installation surveys within the export cable corridor will continue using the tug WASHINGTON and survey vessel CAPT. LES ELDRIDGE.
- The CLV CABLE ENTERPRISE will conduct deep water OEC installation within the cable corridor and into the Lease Area, beginning approximately 12-nautical miles offshore.
- The CLB ULISSE will begin nearshore cable installation from the shore landing to ~12-nautical miles
 offshore beginning in late February.
- Safety vessels CAPT. DANNY, ALLIANCE, and NOREEN MARIE will support project activities.
- Large project components will continue to arrive and be staged at the Portsmouth Marine Terminal.
- Ongoing fisheries resource studies in and around the Lease Area.
- The BIGLIFT BAFFIN has delivered the topside to Portsmouth Marine Terminal (PMT) and will begin jacket foundation installation for Offshore Substation Number 2 (OSS #2).
- Marine Object Discovery re-burial operations will be occurring in mid-late February approximately 3nm offshore



Figure 4: BIGLIFT BAFFIN loaded with the jacket foundation and topside for Offshore Substation (OSS) #2.

CVOW Marine Coordination Center

The CVOW project established a shoreside Marine Coordination Center (MCC) to monitor and coordinate all offshore activities related to project construction and operations. The MCC is staffed 24 hours a day, 7 days a week and can provide further project details if required.

Marine Coordination Center Contact Information	757-366-7000 (desk)		
	757-731-8307 (cell)		
	Email: <u>CVOWOps@dominionenergy.com</u>		

Offshore Installation Activities

The installation (pile driving) operations of monopiles for the WTGs and pin piles for the OSSs has paused from November 2024 through April 2025; the duration of the NARW migration period. To date, seventy-eight (78) of 176 monopile foundations for the WTG have been installed, seven (7) of the 176 transition pieces, and four (4) of twelve pin pile foundations for the first of three (3) OSS have been installed. The first OSS jacket foundation will be installed on the pin piles for OSS #2 in February 2025.

The fitting of Transition Pieces (TP) over the installed foundations will continue with the M/V ORION. The vessel will remain offshore in the lease area while a tug and barge "feedering" arrangement will transport TPs from PMT to the lease area. Installation of TPs will continue in areas with monopile foundations installed, as indicated in



figure 2. Specific locations for installed monopiles, scour protection, and TPs are provided in a table at the end of this publication.



Fig. 5: Barge Julie B "feedering" Transition Pieces to Orion

Fig. 6: Transition Piece G2K06 installed

In February 2025, Pre-Lay Grapnel Run (PLGR) operations will continue within the export cable corridor using the tug WASHINGTON. The CAPT. LES ELDRIDGE will continue her pre-lay installation surveys within the export cable corridor.

The OEC cable installation will continue with the Cable Lay Vessel (CLV) CABLE ENTERPRISE operating from a position beginning ~12-nautical miles from shore and working towards the Lease Area. Additionally, the Cable Lay Barge (CLB) ULISSE will begin shallow water cable installation from the cable landing site to ~12-nautical miles offshore.

For the duration of these operations, the project will continue to have safety vessels deployed in the area. These vessels will be a rotation of commercial fishing vessels, which may consist of the F/V CAPT DANNY, F/V ALLIANCE, F/V NOREEN MARIE, and others as needed. They are available 24/7 on VHF CH 16.

See Seabed Preparation and Cable Installation section for more details.



Temporary Marine Lighting



Once monopiles are installed, quickflashing yellow marine navigation lights will be installed and in operation from sunset to sunrise. Monopile foundations extend 15-feet above sea level.

These lights will be repositioned on top of the Transition Pieces (~80' above sea level) as they are installed over the foundations. Updates to the lighting installations will be published in the USCG

Local Notice to Mariners and USCG Light List.

For up-to-date status of foundation installations, please refer to the USCG *Maritime Safety Information Products | Navigation Center*.

Extreme caution should be exercised when operating in the area. Please report any malfunctioning lights to the safety vessel on site and/or the Marine Coordination Center (MCC).



USCG Safety Zones in Effect at Installation Sites

1. The U.S. Coast Guard has established 179 temporary 500-meter safety zones around the construction of 176 wind turbine generators and three (3) offshore substations in Federal waters on the Outer Continental Shelf, east northeast of Virginia Beach, Virginia. This action is necessary to protect life, property and the environment during construction of the foundations and the subsequent installation of the turbine components, from May 1, 2024, to May 1, 2027. When enforced, only attending vessels and those vessels specifically authorized by the Fifth Coast Guard District Commander, or a designated representative, are permitted to enter or remain in the temporary safety zones. Each of the 179 temporary safety zones will be enforced individually, for a period lasting approximately 48 hours, as construction progresses from one structure to the next.

2. A moving Safety Zone with a 1000-yard radius surrounding the CLB ULISSE will be in effect while conducting the near-shore cable installation work (within 12nm of the shoreline). Close to shore, there will be divers in the water to assist with cable pull-in operations, and throughout operations the ULISSE will have lengthy anchoring lines deployed that could create unseen entanglement hazards for transiting vessels in the area. It is recommended to establish communication with either the CVOW Marine Coordination Center or the on-site safety vessel on CH 16 to coordinate safe transit through the area. You may find a copy of the Notice of Proposed Rulemaking here. Once in effect the information will be broadcast by the USCG ahead of cable landing operations, and a copy of the rulemaking will be available on the "Resources" page of the CVOW website.

Seabed Preparation and Cable Installation

Four (4) of the nine (9) deep water sections of export cables have been trenched and installed, totaling nearly 135 km in length. Each cable is secured at either end by a mushroom anchor. The OECs remain exposed Page 6 of 13



where they cross the existing, charted subsea telecommunications cables. We ask that all mariners be mindful of these cables and avoid anchoring or any other seabed impacting activities in the vicinity of the cables.

Crossing Locations:
DUNANT & MAREA Crossing Polygon (18 crossings in total):
 36° 49.530'N - 75° 34.950'W
 36° 49.460'N - 75° 34.390'W
• 36° 49.000'N - 75° 34.630'W
 36° 49.080'N - 75° 35.230'W
BRUSA East Circle (3 crossings) 0.15nm radius around:
 36° 48.510'N - 75° 35.400'W
BRUSA West Circle (3 crossings) 0.15nm radius around:
• 36° 48.650'N - 75° 36.280'W

The Cable Lay Vessel (CLV) CABLE ENTERPRISE will conduct deepwater OEC installation activities within the cable corridor, beginning at a position ~12-miles offshore, and into the lease area. In mid-February, the Cable Lay Barge (CLB) ULISSE is expected to begin nearshore cable installation from the shore landing out to ~12-nautical miles offshore. She will be supported by 6-9 vessels consisting of anchor handling tugs, multiple work boats, and a dive support vessel. Up to 8 barge anchor lines are used to position the ULISSE during operations and can exceed nearly 1000 m in length. As a result, USCG has established a moving Safety Zone with a 1000-yard radius surrounding the ULISSE while this work is ongoing, as noted above.

Pre-Lay Grapnel Run (PLGR) operations will continue within the export cable corridor using the tug WASHINGTON. A grapnel "train" will be towed behind the vessel to ensure clearance of the route ahead of cable installation activities. The CAPT. LES ELDRIDGE will continue her pre-lay installation surveys within the export cable corridor as one of the final activities before cable installation. The cable corridor extends from a point approximately 400m offshore of State Military Reservation in Virginia Beach, VA out 27nm offshore to the CVOW lease area. *Commercial fishermen utilizing fixed gear in this area during this timeframe are requested to coordinate with the Fisheries Liaison (Ron Larsen:* 570-242-5023) so that gear interactions can be avoided.

Port Operations

During the month of February, large components such as monopiles, transition pieces, and offshore substation sections will continue to arrive and be staged at Portsmouth Marine Terminal.

Total Components Delivered to Portsmouth Marine Terminal				
Monopile Foundations 120				
Transition Pieces	45			
Offshore Substation Pin Piles	12			
Pin Pile Templates	1			



The M/V Biglift Baffin delivered the jacket foundation and topside sections of Offshore Substation #2 to Portsmouth Marine Terminal late January and is planning to install the jacket foundations during the month of February.



Figure 7: Offshore Substation topside and jacket arrival at Portsmouth Marine Terminal

Fisheries Resource Characterization Studies

Dominion Energy continues working with the Virginia Institute of Marine Science (VIMS), the Virginia Marine Resource Commission (VMRC), and commercial fishermen to study Black Sea Bass and Channeled Whelk in and near the Project area, especially the areas shown in the chartlet below. The use of new acoustic release device technology avoids the need for vertical lines and marker buoys in the water.

Black Sea Bass: The study consists of eight (8) strings of ventless traps with 6 traps per string. Sampling
once per month, with a 48-hour soak and acoustic release buoys are utilized to recover the gear. The chart
below displays the study area, which includes locations south of the Lease Area. The study is currently taking
place utilizing the VIMS research vessel R/V Virginia will continue into summer of 2025. The study area is
outlined in pink below.





- Channeled Whelk: The study uses eighteen (18) strings of seven (7) pots, a 48-hour soak time and recovery by acoustic release buoys. This cooperative study will be completed in partnership with local commercial whelk fishermen, and activities will continue through summer of 2025. The study area includes the southern portion of the CVOW lease site (with future turbine locations) and a control area outside the Lease Area. The entire study area is outlined in green below.
- Atlantic Surfclam: The final report for the Atlantic Surfclam surveys that were conducted in June of 2023 has been published and is available on the CVOW Project Website here. This survey was a collaborative effort between VIMS, Rutger's University, VMRC, and Dominion Energy.

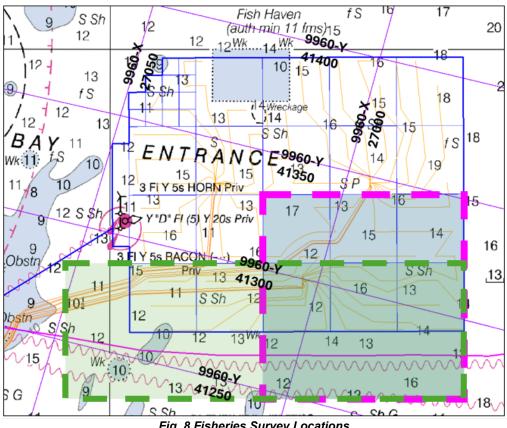


Fig. 8 Fisheries Survey Locations

Recreational Fisheries and Public Access

- Access to the lease area for recreational activities is unrestricted unless construction activities are active.
- If construction activities are active, a 500-yard standoff distance is requested.
- If Mariners have questions about access, the onsite project safety vessels can provide direction via VHF Marine 16. Alternatively, mariners may reach out directly to the CVOW Marine Coordination Center (757-366-7000)

Mariners are reminded not to touch or tie off to monopiles and to remain vigilant for other vessels, including operational Project vessels, in the area. **



Additional Offshore Activities

Diving Operations:

In mid to late February, Dominion Energy will be conducting dive operations in an area within the cable corridor approximately 3nm offshore of Rudee Inlet (36°48'51.22"N, 75°55'08.89"W). This activity is being conducted in coordination with the Virginia Institute of Marine Science onboard the R/V TIDEWATER over the course of approximately 5 days. Due to the sensitivity of the operation and to ensure diver safety, it is requested that vessels transiting the area maintain a minimum 500-yard exclusion area around the vessel. When diving from vessels, the international code alpha and recreational dive flag with a minimum dimension of 23 inches will be displayed whenever diving operations are being conducted and will not be removed until diving operations have been completed and all divers are safely out of the water. The vessel may be hailed on CH 13 or 16 to arrange safe passing arrangements, or operators may contact the CVOW Marine Coordination Center.

Project Vessels as of February 1, 2025

NAME	LENGTH	CALL SIGN	VESSEL NUMBER	MMSI	TYPE AND PURPOSE	
Wind Turbine Generator (WTG) Installation and Support Vessels						
ORION	705'	ORMB	9825453	205755000	Transition Piece (TP) Installation Vessel	
OCEAN WAVE	146'	WDG3180	9554004	367523340	Tug for Feeder Barge	
ALERT	140'	WCZ7335	9214381	366779420	Tug for Feeder Barge	
JULIE B (barge)	400'	N/A	N/A	N/A	Transition Piece Feeder Barge	
455 (barge)	400'	N/A	N/A	N/A	Transition Piece Feeder Barge	
	C	able Installati	on and Seabed Prepa	aration Vess	els	
<u>ULISSE</u>	394'	9HA4326	8688535	249651000	Cable Lay Barge	
CABLE ENTERPRISE	408'	2FOV9	8645806	235093018	Cable Installation Vessel	
WASHINGTON	120'	WDH3844	9730646	367611520	Pre-Lay Grapnel Run (PLGR) Vessel	
CAPT LES ELDRIDGE	59'	WDN7043	1205382	368304760	Crew Transfer Vessel (CTV)	
			Safety Vessels			
F/V CAPT DANNY	83'	WDL7090	N/A	368157020	Fishing Vessel – Project Safety Vessel	
F/V ALLIANCE	111'	WDF7948	N/A	366384000	Fishing Vessel – Project Safety Vessel	
F/V NOREEN MARIE	69'	WDE3392	N/A	367338460	Fishing Vessel – Project Safety Vessel	
		Т	ransportation Vessel	ls		
SUN RISE	554'	D7GU	9623219	440032000	Heavy Lift Transport Vessel	
SUN SHINE	571'	D7DB	9471616	440040000	Heavy Lift Transport Vessel	
BIGLIFT BAFFIN	568'	PCZI	9758557	244830814	Heavy Lift Transport Vessel	
GPO GO GRACE	738'	V7FI6	9760421	538007446	Heavy Lift Transport Vessel	
Fisheries Resource Characterization Vessels						
<u>R/V VIRGINIA</u>	93'	WDK4341	9900887	368054210	Research Vessel	
F/V THOMAS REED	49'	SURV1	N/A	367187470	Commercial Fishing Vessel	



F/V LADY ISLA	V LADY ISLA 47' N/A 1090997 338495354 Commercial Fishing Vessel			Commercial Fishing Vessel	
Crew Transfer Vessels (CTV)					
WINDEA RANGER	91'	WDP4760	N/A	368357430	High Speed Craft
ATLANTIC ENDEAVOR	62'	WDL8441	N/A	368169560	High Speed Craft

Mariners and the public are reminded that due to the nature of the construction activities, project vessels are often restricted in their ability to maneuver. It is requested that mariners communicate with project vessels on Channel 16 VHF to coordinate any necessary passing arrangements. Safety vessels will be on scene to assist with the coordination of commercial and public marine traffic and project vessels.

Installed Components as of January 30, 2025:						
Row	WTG ID	Coordinates	Foundation Installation Date	Scour Protection	Transition Piece	
1	G2K04	36.869196°N 075.456227°W	22-May-24		\checkmark	
2	G2J05	36.884680°N 075.442662°W	26-May-24		\checkmark	
3	G2J04	36.884621°N 075.458216°W	28-May-24		~	
4	G2J03	36.884560°N 075.473769°W	31-May-24	\checkmark	\checkmark	
5	G2H05	36.900106°N 075.444659°W	4-Jun-24		\checkmark	
6	G2H06	36.900163°N 075.429103°W	7-Jun-24		\checkmark	
7	G2K03	36.869135°N 075.471777°W	8-Jun-24		\checkmark	
8	G2J06	36.884737°N 075.427109°W	14-Jun-24	\checkmark	\checkmark	
9	G2H04	36.900047°N 075.460216°W	16-Jun-24			
10	G2H03	36.899985°N 075.475772°W	17-Jun-24			
11	G2K05	36.869255°N 075.440677°W	18-Jun-24	\checkmark	\checkmark	
12	G2G06	36.915589°N 075.431087°W	19-Jun-24		\checkmark	
13	G2G05	36.915531°N 075.446646°W	20-Jun-24		\checkmark	
14	G2F07	36.931061°N 075.417520°W	22-Jun-24	\checkmark		
15	G2E07	36.946487°N 075.419502°W	23-Jun-24	\checkmark		
16	G2F06	36.931005°N 075.433082°W	25-Jun-24	\checkmark		
17	G2F03	36.930826°N 075.479770°W	26-Jun-24			
18	G2G03	36.915410°N 075.477765°W	28-Jun-24	\checkmark		
19	G2F04	36.930888°N 075.464208°W	29-Jun-24			
20	G2F05	36.930947°N 075.448645°W	1-Jul-24	\checkmark		
21	G2E06	36.946431°N 075.435068°W	2-Jul-24	\checkmark		
22	G2E05	36.946373°N 075.450634°W	3-Jul-24	\checkmark		
23	G2E03	36.946250°N 075.481765°W	4-Jul-24	\checkmark		
24	G2D06	36.961856°N 075.437065°W	5-Jul-24			
25	G2D04	36.961737°N 075.468203°W	6-Jul-24	\checkmark		



Dominion Energy[®] Coastal Virginia **Offshore Wind**

Row	WTG ID	Coordinates	Foundation Installation Date	Scour Protection	Transition Piece
26	G2C05	36.977382°N 075.455728°W	9-Jul-24	\checkmark	
27	G2D05	36.961798°N 075.452634°W	10-Jul-24	\checkmark	
28	G2D07	36.961912°N 075.421496°W	13-Jul-24	\checkmark	
29	G2D08	36.961966°N 075.405927°W	14-Jul-24	\checkmark	
30	G2B06	36.992697°N 075.441051°W	15-Jul-24	\checkmark	
32	G2C06	36.977281°N 075.439052°W	17-Jul-24	\checkmark	
33	G2E08	36.946541°N 075.403936°W	19-Jul-24	\checkmark	
34	G2B07	36.992754°N 075.425476°W	20-Jul-24		
35	G2D09	36.962019°N 075.390358°W	21-Jul-24		
36	G2F08	36.931114°N 075.401957°W	22-Jul-24	\checkmark	
37	G2G08	36.915697°N 075.399967°W	22-Jul-24		
38	G2G04	36.915697°N 075.399967°W	25-Jul-24	\checkmark	\checkmark
39	G2D11	36.962117°N 075.359220°W	28-Jul-24		
40	G2E11	36.946690°N 075.357238°W	29-Jul-24		
41	G2D10	36.962069°N 075.374789°W	29-Jul-24		
42	G2E09	36.946592°N 075.388370°W	31-Jul-24		
43	G2H08	36.900271°N 075.397990°W	2-Aug-24		
44	G2F11	36.931263°N 075.355268°W	3-Aug-24		
45	G2F10	36.931216°N 075.370831°W	4-Aug-24		
46	G2G10	36.915798°N 075.368848°W	5-Aug-24		
47	G2F09	36.931166°N 075.386394°W	6-Aug-24	\checkmark	
48	G2G09	36.915749°N 075.384408°W	7-Aug-24	\checkmark	
49	G2J07	36.884792°N 075.411556°W	10-Aug-24	\checkmark	
50	G2H09	36.900322°N 075.382433°W	11-Aug-24	\checkmark	
51	G2J09	36.884896°N 075.380449°W	12-Aug-24		
52	G2K09	36.869469°N 075.378476°W	12-Aug-24		
53	G2K08	36.869419°N 075.394026°W	13-Aug-24		
54	G2K07	36.869366°N 075.409577°W	14-Aug-24	\checkmark	
55	G3H12	36.900463°N 075.335763°W	18-Aug-24		
56	G2K10	36.869518°N 075.362926°W	21-Aug-24		
57	G2H07	36.900218°N 075.413546°W	21-Aug-24	\checkmark	
58	G2K06	36.869311°N 075.425127°W	22-Aug-24	\checkmark	\checkmark
59	G3H13	36.900506°N 075.320207°W	23-Aug-24		
60	G3J13	36.885079°N 075.318235°W	23-Aug-24		
61	G3G11	36.915845°N 075.353288°W	25-Aug-24		
62	G3J12	36.885036°N 075.333788°W	26-Aug-24		
63	G3H14	36.900547°N 075.304650°W	26-Aug-24		
64	G3G14	36.915975°N 075.306609°W	27-Aug-24		



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Row	WTG ID	Coordinates	Foundation Installation Date	Scour Protection	Transition Piece
65	G3G13	36.915934°N 075.322169°W	28-Aug-24		
66	G3G12	36.915891°N 075.337728°W	29-Aug-24		
67	G2E04	36.946312°N 075.466199°W	31-Aug-24		
68	G2E10	36.946642°N 075.372804°W	1-Sep-24		
69	G3F12	36.931309°N 075.339705°W	2-Sep-24		
70	G3F13	36.931352°N 075.324142°W	8-Sep-24		
71	G3C13	36.977634°N 075.330046°W	9-Sep-24		
72	G3B12	36.993008°N 075.347599°W	11-Sep-24		
73	G3C14	36.977677°N 075.314474°W	12-Sep-24		
74	G3E13	36.946780°N 075.326106°W	12-Sep-24		
75	G3D12	36.962163°N 075.343650°W	13-Sep-24		
76	G3E14	36.946821°N 075.310540°W	19-Sep-24		
77	G3D13	36.962207°N 075.328081°W	20-Sep-24		
78	G3D14	36.993095°N 075.316448°W	23-Sep-24		
1	OSS #2	36.915644°N 075.415527°W	16-Oct-24		

We remain committed to maintaining communications with fishing communities and other mariners in the area via these periodic updates, informational speaking engagements and dock visits. This information is also posted on the CVOW website.

- Additional project information is available on the CVOW project website.
- Sign up to receive USCG Local Notice to Mariners Updates: Subscribe to Our RSS Feeds | Navigation Center (uscg.gov)
- GIS Shapefiles of the project site are available here. •
- USCG GIS-based LNM product to visualize project activities available here, announced in this notice.

For additional information or requests for speaking engagements, please contact the following individuals or submit a comment on the CVOW website for response.

> Ron Larsen Fisheries Liaison Officer Sea Risk Solutions ronlarsen@searisksolutions.com 570-242-5023

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