



MarinerEastNews

JULY 2017

Mariner East Construction Newsletter

Welcome to the Mariner East Construction Newsletter — a pipeline of information to keep you updated on developments across the project footprint. Construction of Mariner East 2 continues across the 350-mile pipeline system, from eastern Ohio to southeast Pennsylvania, with more than 5,000 workers in the field operating safely and efficiently to build this critical energy infrastructure project. This newsletter provides a detailed update on construction activities within your region.

Pipeline Construction: Know the Facts

Pennsylvanians have coexisted for generations with pipelines carrying natural gas and natural gas liquids such as propane. Natural gas pipelines and utilities must adhere to strict state and federal safety regulations.

- The U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration, the Pennsylvania Public Utility Commission and other government agencies strictly regulate the manufacturing, construction and operation of Sunoco Pipeline projects.
- Sunoco Pipeline is using advanced construction methods, such as horizontal directional drilling, to minimize environmental impacts.
- An [independent study](#) conducted by a nationally respected expert found that Sunoco Pipeline meets or exceeds federal safety requirements at every level. Regarding welding, for instance, federal regulations call for at least 10 percent of pipeline girth welds to be inspected by X-ray; Sunoco Pipeline X-rays 100 percent. Other areas in which Sunoco Pipeline exceeds federal regulations include:



- Integrity Testing: (Sunoco Pipeline plans for testing the Mariner East 2 pipeline before it is placed in service.)
 - Pump station design
 - Pipeline monitoring
 - Release detection
 - Emergency notification
- Sunoco Pipeline's Integrity Management Program assesses every inch of pipeline we operate, using smart inspection technology to analyze our pipelines internally and on-site inspections by Sunoco Pipeline personnel to ensure safe and efficient operation. ●

Did You Know?

To date, our construction crews along the Mariner East 2 pipeline have worked more than 3 million hours.

Skilled local tradesmen and women are equipped with the most advanced training, safety measures and operation standards to ensure safe and environmentally responsible construction.

Contact Sunoco Pipeline

Mariner East 2 Project

525 Fritztown Road
Sinking Spring, PA 19608

855-430-4491

www.marinerpipelinefacts.com
Twitter - @SunocoPipeline

The Sunoco Pipeline Public and Community Affairs team is dedicated to providing project information and construction updates to residents and local officials in the communities where we live and operate our Mariner East system. This regular publication will provide project updates; interested recipients can sign up at www.marinerpipelinefacts.com.



Mariner East 2 – Chester and Delaware Counties

Sunoco Pipeline has segmented the construction of the 350-mile pipeline into seven sections from Ohio to southeast Pennsylvania. In keeping with our commitment to regular communication with local leaders and the community, each construction “spread” has an individual point of contact for community affairs.

Spread 6 is approximately 35 miles and includes communities in Chester and Delaware counties.

Construction Update

Construction continues in every municipality within Segment 6, and we continue to make significant progress. Construction activity updates include:

- More than 70 percent of the right-of-way clearing is complete, and crews are continuing to build access roads, install environmental controls and prepare work sites for equipment.
- Laying of timber matting for heavy construction equipment to work while limiting ground disturbance and compaction.
- Separating and piling topsoil to ensure topsoil is the final layer used when backfilling the ditch.
- Digging of road bore pits to use a horizontal guided boring machine to safely install the 20-inch and 16-inch pipeline beneath roads, and some highways. We are approximately 25 percent complete with boring activities.
- Ten horizontal directional drill rigs are operating within the townships of Upper Uwchlan, West Whiteland, East Goshen, Middletown, Aston and Chester.

Additional locations, including in Uwchlan Township, are being prepped for the drilling to commence.

- Conventional open-cut method continues throughout the segment, with crews seen stringing, ditching, bending, welding and coating the 20-inch pipes. The majority of the conventional open-cut construction occurs in the western portion of Chester County — Elverson borough, West and East Nantmeal townships, and Wallace Township.

Sunoco Pipeline is deeply committed to our core values of safety, security and environmental stewardship, and these values will continue to guide everything we do during construction of Mariner East 2.

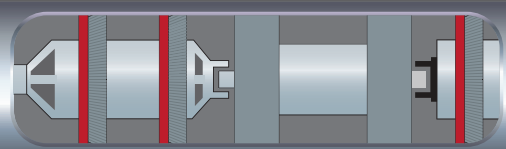
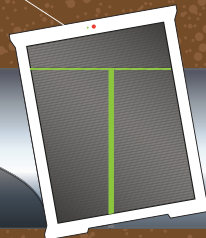
We will continue to provide regular updates to local stakeholders in addition to this construction newsletter. ●

Pipeline Safety from the Inside Out

Inspectors use X-ray technology to make sure all pipeline welds are secure.

New steel pipelines are treated with a protective, bonded-epoxy coating that prevents corrosion.

Tools called “smart pigs” travel inside the line, measuring wall thickness and searching for defects or anything requiring maintenance.



FOR MORE INFORMATION CONTACT: IVANA WOLFE • Ivana.Wolfe@energytransfer.com • 855-430-4491
www.marinerpipelinefacts.com • @SunocoPipeline



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