

Remedial Investigation Report (RIR) Addendum - AOI 9 – Plain Language Overview

Key Points & Takeaways

- The Philadelphia Refinery is organized into 11 areas of interest (AOIs). This document pertains to Area of Interest 9 (AOI9), also known as the Schuylkill River Tank Farm (SRTF).
- In 2015, Evergreen submitted an initial Remedial Investigation Report (RIR) for AOI9. In 2017, Evergreen submitted a first addendum to the RIR. Now, Evergreen is submitting a Second addendum to provide additional information collected since the 2017 RIR addendum
- The initial RIR and the addenda are helpful in:
 - confirming geology and direction of groundwater flow.
 - identifying what chemicals of concern (COCs) are present in soil, groundwater, and air.
 - identifying that other sources in addition to the former Philadelphia Refinery may be contributing to the chemicals in the soil and groundwater.
- An assessment to determine if soil or groundwater contamination is moving into the air (vapor intrusion assessment) showed that: (1) the samples did not indicate a concern to outdoor air; (2) only one sample of a building on the refinery site showed vapor intrusion levels above EPA residential background concentrations; and (3) the samples did not indicate indoor or outdoor air threat to residents.
- Most petroleum contamination from the former refinery has remained inside the property and along its edges. The contamination is not expected to reach residential areas or public water supplies.

Summary

- The PADEP asked for additional information for AOI9, which Evergreen provided in this addendum. The response summarizes the updated technical information in response to PADEP.
- Site characterization describes the nature and the extent of any contamination and defines contaminant pathways (how contaminants travel) and receptors (ecological or property elements which could be impacted by pollutants). The characterization work was also performed to enhance understanding of the things that influence where potential contaminants might end up given a long history of storage, blending, and transfer of products and refinery intermediates at the Schuylkill River Tank Farm under Sunoco ownership.
- Results of the characterization activities indicate that offsite subsurface soils within the investigation area are similar to those present beneath AOI9, which allows for Evergreen to better predict where chemicals may occur in soil and groundwater.
- The additional well gauging that was performed as a part of the Second Addendum (including the new and existing offsite wells) indicates that groundwater flow patterns

within and close to AOI9 are controlled by Mingo Basin, which controls groundwater flow and prevents contaminants from migrating away from AOI9.

- Data collected for groundwater samples since the beginning of 2017 provide a more complete picture of the status of environmental impacts at SRTF. The extent of contamination in shallow groundwater is now clearly defined along the Western boundary.

For more information:

- View the detailed report that was submitted to PADEP (Report attached herein and can also be downloaded from: www.phillyrefinerycleanup.info/act-2-documents)
- During the public comment period, September 30, 2021 through October 30, 2021, comments, and questions regarding the report may be submitted to Evergreen which will be addressed and submitted to PADEP as part of their review of this report.
- Comments/Questions can be submitted via the following methods:
 - Website comment page: www.phillyrefinerycleanup.info/comment-submission-form
 - Via email to: phillyrefinerycleanup@ghd.com
 - Via USPS to: PO Box 7275, Wilmington, DE 19803