

The St. Louis Sites

Formerly Utilized Sites Remedial Action Program • Winter 2021

314-260-3905/314-331-8000

www.mvs.usace.army.mil

FUSRAP/MoDOT partnership on I-270 North Project benefits community

The U.S. Army Corps of Engineers (USACE), St. Louis District, Formerly Utilized Sites Remedial Action Program (FUSRAP) has had great success working with the Missouri Department of Transportation (MoDOT) in conjunction with the I-270 North Project.

In 2018, MoDOT notified USACE that road improvements were planned for North St. Louis County, including the properties within FUSRAP boundaries on Pershall Road from Lindbergh Boulevard to North Hanley Road.

“USACE worked with MoDOT contractors to review their plans and to get a schedule of work,” FUSRAP lead engineer Robin Parks said. “MoDOT and USACE cooperated to merge schedules so that USACE could perform remedial action before the road improvements made RA impossible in the future.”

USACE also worked closely with MoDOT to determine the areas of contamination where road improvements were planned. USACE initiated pre-design sampling/investigation to determine the extent of contamination on Pershall Road/I-270 properties. Besides areas of contamination under the roads and adjacent-road rights of way, the two bridges on Pershall Road and I-270 pass over Coldwater Creek (CWC). USACE continues to sample and remediate, if needed, the CWC corridor from upstream to downstream.



Excavator operators perform work on Pershall Road for the U.S. Army Corps of Engineers (USACE), St. Louis District, Formerly Utilized Sites Remedial Action Program (FUSRAP). In coordination with the I-270 North Project, the Missouri Department of Transportation (MoDOT) has been partnering with FUSRAP recently.

MoDOT agreed to close Pershall Road in August 2020 to allow FUSRAP to start remedial activities. FUSRAP made it a priority to remove contamination in areas where construction and utility workers would be working, remove inaccessible soils, remove accessible soils that would be made inaccessible because of the road improvements, and eliminate the need for land use controls.

FUSRAP completed the removal of more than 31,000 cubic yards of contaminated material in five months. The success of this project was due to the partnership between MoDOT and FUSRAP.

Upcoming Events

Upcoming Meetings: Due to the impacts of 2019 novel-coronavirus disease, or COVID-19, the FUSRAP Open House won't be held this year.

Information Releases: In an effort to become more digital and provide more real-time project updates, FUSRAP will replace its newsletter, "The St. Louis Sites," with added coverage on its webpage at <https://www.mvs.usace.army.mil/Missions/FUSRAP/> or <https://go.usa.gov/xANRb>. The FUSRAP team will also post information to social media at <https://facebook.com/teamsaintlouis>.



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St. Louis District

Formerly Utilized Sites Remedial Action Program Activities

St. Louis Downtown Site

During summer and fall 2020, the FUSRAP team performed remedial action (RA) construction activities at the St. Louis Downtown Site (SLDS) at two separate locations: the Destrehan Street/Plant 7W area in the Mallinckrodt LLC (Mallinckrodt) Plant and the Gunther Salt North (DT-4) property. In addition, planning is underway for RA in the Mallinckrodt Plant 2N location, scheduled for spring 2021.

The FUSRAP team completed restoration of the Destrehan Street/Plant 7W area during July 2020. Restoration included asphalt and concrete placement in specific areas to return them to conditions that existed prior to RA. In addition, the team installed features that allow appropriate drainage of the paved areas.

At DT-4 North, the team continued RA inside and around salt-storage Dome 2. The team completed remediation under the ringwall in June 2020. RA continued outside of Domes 1 and 2 through August 2020. The team was able to shift the remediation focus after the property owner removed a structure in the southwest corner of the property. This building removal allowed the FUSRAP team to excavate contaminated soil from this previously inaccessible part of the property. After completion, the focus of RA at the site moved into Dome 1 Dec. 1, 2020. Remediation and restoration activity at DT-4 is scheduled to be complete in spring 2021.

In fiscal year 2020, SLDS shipped 3,739 cubic yards of contaminated soil to a licensed, out-of-state facility, exceeding its goal by more than 700 cubic yards. From Oct. 1, 2020, through the end of 2020, SLDS shipped 997 cubic yards. Since the summer newsletter (with stats through June 2020), the FUSRAP team has shipped 1,993 cubic yards from SLDS through Dec. 31, 2020.

In addition, during FY 20, the FUSRAP team completed documentation allowing three properties to be returned to the property owners for beneficial use.

North St. Louis County Sites

The FUSRAP team shipped 26,171 cubic yards of contaminated soil from the North St. Louis County (NORCO) Sites in fiscal year 2020, exceeding its goal by almost 4,000 cubic yards. Since the summer newsletter (with stats through June 2020), the FUSRAP team has shipped 14,046 cubic yards of contaminated soil from the North St. Louis County (NORCO) Sites to a licensed, out-of-state facility through Dec. 31, 2020.

St. Louis Airport Site Vicinity Properties

The U.S. Army Corps of Engineers (USACE) completed remediation in areas along Pershall Road and I-270 Coldwater Creek Dec. 16, 2020. USACE's Formerly Utilized Sites Remedial Action Program (FUSRAP) has removed more than 31,000 cubic yards of contaminated material since August 2020.

Latty Avenue Properties

In February, USACE is scheduled to remove 1,600 cubic yards of contaminated material under the Futura property fenceline. Previously, this area was inaccessible because it is located within 25 feet of adjacent railroad tracks. USACE worked with Norfolk Southern Railroad to obtain permission to remove the contaminated material. This will reduce the inaccessible-soils footprint on the Futura property.

Coldwater Creek

USACE recognizes the need to complete sampling in Coldwater Creek (CWC) and the adjacent properties as soon as possible. In 2020, USACE increased the sampling crews to four. To date, the FUSRAP team has sampled more than 7.25 miles of CWC with 6.6 miles remaining to the Missouri River. USACE officials estimate that it will take about three more years to complete the Pre-Design Investigation (PDI) sampling in CWC and adjacent properties. Through Dec. 31, 2020, USACE has taken almost 24,000 samples in CWC and on adjacent properties.

Once the PDI sampling is completed on a property, USACE notifies the property owner of the property status.

Keeping in Touch

Feedback - If you have any suggestions, questions or comments, contact the U.S. Army Corps of Engineers using:

Phone: 314-260-3905/314-331-8000

Mail: U.S. Army Corps of Engineers, St. Louis District,
FUSRAP Area Office
114 James S. McDonnell Blvd.
Hazelwood, MO 63042

Email: STLFUSRAP@usace.army.mil

Mailing List - To receive printed communications when available, sign up for the FUSRAP mailing list or email list, using one of the contact methods above.

Homepage - **New URL!** To reach the FUSRAP webpage, use its new, shorter official URL <https://www.mvs.usace.army.mil/Missions/FUSRAP> or <https://go.usa.gov/xANRb>.

Facebook - Visit the USACE St. Louis District page at <http://www.facebook.com/teamsaintlouis>.

Meet the PgM

Deputy program manager now leads FUSRAP team

On Dec. 10, 2020, the St. Louis Downtown Site project manager, Phil Moser, was selected to replace retiring FUSRAP program manager Bruce Munholand. Before Munholand retired in early January, they were able to work together for several weeks for a smooth transition.

The transition between the two was seamless because, as deputy program manager, Moser had been read into all programmatic actions for many months.

Munholand said he has relied on Moser's input on critical program challenges for a couple of years.

"Phil brings a wealth of environmental and project and program manager experience to the position," said Susan Wilson, deputy district engineer for U.S. Army Corps of Engineers, St. Louis District.



FUSRAP uses innovative approach to remediate at Gunther Salt

The U.S. Army Corps of Engineers (USACE), St. Louis District, Formerly Utilized Sites Remedial Action Program (FUSRAP) is using innovative engineering methods to gain access to and excavate soils that were previously considered inaccessible due to location relative to the permanent structure at the Gunther Salt Company Property in downtown St. Louis. This area includes salt domes – specialty structures used to warehouse salt prior to distribution.

The end result of the removal of the soils is being able to release the property to the landowner with minimal or no restrictions. Having a good working relationship with the property owner led to negotiations on ways to make the access possible.

The FUSRAP team did additional sampling to better define areas of known contamination. Having more-accurate estimated areas of contamination was critical for engineering design purposes.



An excavator operator dumps a bucket of contaminated soil into a dump truck at Gunther Salt Dome recently.

USACE devised an approach to safely remove the contaminated soil beneath each salt dome's supporting concrete foundation and walls without damaging the structure. Soil inside and outside each dome was excavated to remove known contamination and to expose potentially contaminated soil underneath the supporting wall.

For remediation of contamination beneath the salt domes' walls, USACE's FUSRAP team limits excavation to 5-foot sections at a time. Typically, two sections are excavated each day while maintaining no less than 20 feet between active excavation areas. The removed areas are immediately backfilled with concrete. The excavation activities of adjacent sections are staggered to allow cure time for the concrete.

This complicated remediation demands strict engineering controls. These include rigorous quality control of backfill materials and placement, as well as extensive monitoring of the dome structures for possible movement or damage throughout the entire process.

USACE also coordinated with the property owner to ensure that remediation activities on the properties did not impact time-critical salt shipments during extreme seasonal demands or affect their incoming barge shipments and outgoing truck and rail shipments.

The FUSRAP team has successfully completed remediation activities at two out of the three salt domes as well as within the footprint of a former warehouse that provided access to the affected soils. Remediation is ongoing within the final salt dome. Through Dec. 31, 2020, approximately 6,260 cubic yards of contaminated soil have been excavated as part of this remedial action: 3,400 cubic yards from Dome 2; 1,200 cubic yards from Dome 3; 1,500 cubic yards from the Building 5 area; and 160 cubic yards from Dome 1.

Educational Information

Q: How important is a timely ROE?

A: If it weren't for help from property owners, the U.S. Army Corps of Engineers (USACE), St. Louis District, Formerly Utilized Sites Remedial Action Program (FUSRAP) couldn't do its work to clean up radiological contamination.

The FUSRAP team determines the location of radioactive contamination by sampling the soil of properties within the 10-year floodplain of Coldwater Creek as well as the soil and sediment within the Coldwater Creek corridor.

By signing a right of entry (ROE), the property owner authorizes USACE to be on private property to take soil samples, scan for radioactive contamination and/or access other properties that require investigation. It also grants access for cleaning up radiological contamination in soil and restoring the property to its former state.

All FUSRAP sampling and testing as well as remediation and restoration of a property (if needed) will be at FUSRAP's expense.

Signing the ROE allows USACE to proceed in a methodical fashion in fulfilling its mission to protect human health and the environment. The requirements for USACE to sample a property and to remediate contaminated soils don't go away if a property owner decides not to sign an ROE; the requirements simply get delayed.

Delays in sampling and remediation could have several impacts to the program and surrounding neighbors. Returning to sample and remediate out of sequence will result in higher costs to the taxpayer. If any of the property owner's neighbors had already gone through the disruption of sampling and remediation, they will once again be subject to those disruptions.

Contaminated soils tend to cross property lines, which means that sampling as well as possible remediation and restoration of neighboring properties could be delayed until all contiguous properties are accessible.

If you have special considerations before signing an ROE, such as dogs, health issues, etc., contact the FUSRAP realty specialist at 314-331-8167 to discuss those concerns. Read more about rights of entry at <https://www.mvs.usace.army.mil/Missions/FUSRAP> or <https://go.usa.gov/xANRb> under "Fact Sheets."

This newsletter is printed on recyclable paper.



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