

NEWS Letter

Former Nebraska Ordnance Plant ■ Mead, Nebraska

Open House Meeting

The U.S. Army Corps of Engineers will host the Fall Open House on Wednesday, October 20th, 2010 at the Yutan VFW Country Club in Yutan, Nebraska. The Yutan VFW Country Club is located south of Highway 92 at 1581 Yutan Road. The open house meeting is from 4:00 p.m. to 8:00 p.m. with technical staff in attendance to answer specific questions regarding the former Nebraska Ordnance Plant. Representatives from the U.S. Environmental Protection Agency and Nebraska Department of Environmental Quality are expected to attend as well. A variety of updated handouts and new displays will be available along with refreshments. Additionally, a brief informational presentation will be given on the 2009 Containment Evaluation. The presentation will be given hourly at 5:00, 6:00, and 7:00 p.m. For further information regarding the meeting, contact Kristine Stein, Project Manager, at (816) 389-3172.

New Team Member

The former Nebraska Ordnance Plant project team is excited to introduce our newest member, Jason L'Ecuyer. Jason is a Kansas State Engineering graduate with 8 years of experience working for the U.S. Army Corps of Engineers. Jason will be the technical lead for all engineering aspects of groundwater remediation including Operations and Maintenance of the groundwater treatment plants. When asked about his thoughts on the selection, Jason stated "I am very happy to be a part of the team". You will all have a chance to meet Jason at the next open house on Wednesday, October 20th, 2010.

Operations and Maintenance Summary

Operation of the Main Groundwater Treatment Plant, Advanced Oxidation Process Treatment Plant, Load Line 4 Groundwater Treatment Plant, and Load Line 1 Groundwater Treatment Plant have resulted in removal of the following amounts of contaminants of concern from groundwater as of September 30, 2010 since their respective startup:

TCE (Trichloroethene) total removed – 14,821 pounds

- Main Groundwater Treatment Plant – 361 pounds
- Load Line 1 Groundwater Treatment Plant - 116 pounds
- Advanced Oxidation Process Treatment Plant - 13,711 pounds
- Load Line 4 Groundwater Treatment Plant – 633 pounds

RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine) total removed from the Main Groundwater Treatment Plant – 178 pounds

Total gallons of water treated:

- Main Groundwater Treatment Plant - 9,425,271,000 gallons
- Load Line 1 Groundwater Treatment Plant - 738,741,000 gallons
- Advanced Oxidation Process Treatment Plant - 614,545,000 gallons
- Load Line 4 Groundwater Treatment Plant - 80,310,000 gallons

The treated water from the Advanced Oxidation Process Plant is sent to the Main Groundwater Treatment Plant to ensure the water meets discharge requirements. The amount of contaminated

October 2010

For more information or any questions concerning the former Nebraska Ordnance Plant project, please contact:

Kristine Stein

Project Manager

U.S. Army

Corps of Engineers

Kansas City District

601 E. 12th Street

Kansas City, Missouri 64106

Phone (816) 389-3172

email:

kristine.m.stein@usace.army.mil

or go to the project website at

[http://www.nwk.usace.army.mil.projects/mead](http://www.nwk.usace.army.mil/projects/mead)

Information repository documents are available for review at:

Mead Public Library

316 South Vine Street

Mead, Nebraska 68041

(402) 624-6605

Hours

Monday: 2-7 PM

Thursday: 9:30-11:30 AM, and 2-7 PM

Saturday: 9-12 PM



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groundwater treated from the Advanced Oxidation Process Plant is included in the Main Groundwater Treatment Plant discharge quantity. The high mass removal generated by the Advanced Oxidation Process Plant and the Load Line 4 Plant is due to the fact that Focused Extraction Wells 11 and 15, which pump groundwater to the Advanced Oxidation Process Plant and Load Line 4 Plant respectively, is installed in high contaminant concentration areas.



Load Line 4 Groundwater Treatment Plant,
Photo by ECC.

Main Groundwater Treatment Plant Expansion

The U.S. Army Corps of Engineers has begun construction on an addition to the Main Groundwater Treatment Plant at the former Nebraska Ordnance Plant, Mead, Nebraska. The 30-foot by 65-foot expansion will allow for the addition of much needed onsite storage and a separate sampling area. This is due to the expanding operations and increased personnel performing work at the former Nebraska Ordnance Plant. The addition to the Main Groundwater Treatment Plant will address both space and safety issues that have arisen as the project grows. Construction on the expansion began on August 30 of this year.



Main Groundwater Treatment Plant Expansion Area,
Photo by ECC.

Pilot Study Investigation

The U.S. Army Corps of Engineers conducted a Pre-Pilot Study Investigation on the Load Line 2 groundwater plume at the former Nebraska Ordnance Plant during the Spring of 2010. This investigation was conducted to examine the feasibility of applying different technologies to treat interior areas of the plume that contain RDX and/or TCE contamination. More specifically, it is examining if groundwater can be treated in place (underground) without pumping groundwater to a treatment facility. Field activities were completed in May 2010 and the data collected is being analyzed to determine if additional studies are necessary. Technologies that were shown to be effective during the initial study may be performed on a small scale to further assess their effectiveness instead of directly implementing on a larger scale. The technologies that will be tested during this investigation are intended to enhance and work alongside with the existing groundwater treatment and containment system.

Operable Unit 3 Summary

A Supplemental Remedial Investigation was conducted during September, 2010, in accordance with the approved Final OU-3 Supplemental Remedial Investigation Work Plan. The field work included collection of subsurface soil samples for metals analysis near the on-site landfill and potential landfill, and collection of vapor intrusion samples in 4 on-site buildings. The data gathered from this event and previously collected surface water data from Johnson Creek, Clear Creek and Silver Creek will be evaluated and utilized to complete a Supplemental Remedial Investigation Report including a revised Baseline Risk Assessment, a Supplemental Feasibility Study, a Proposed Plan and a Record of Decision.



OU3 Vapor Intrusion Sample Collection, Photo by GEO