

NEWS Letter

Former Nebraska Ordnance Plant ■ Mead, Nebraska

Open House Meeting

The U.S. Army Corps of Engineers will host the Spring Open House on Wednesday, April 18, 2012, 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 have been invited to attend as well. A variety of handouts and displays will be available along with refreshments. Additionally, a brief informational presentation will be given on current and future cost savings measures. The presentation will be given hourly at 5:00, 6:00, and 7:00 p.m. For further information regarding the meeting, contact the Corps of Engineers Project Manager at (816) 389-3172.

Operations and Maintenance Summary

Operation of the Main, Load Line 1, Advanced Oxidation Process, and Load Line 4 Groundwater Treatment Plants have resulted in removal of the following amounts of contaminants of concern from groundwater as of March 31, 2012 since their respective start-up:

TCE (trichloroethene) total removed – 22,190 pounds

- Main Groundwater Treatment Plant – 373 pounds

- Load Line 1 Groundwater Treatment Plant - 227 pounds
- Advanced Oxidation Process Treatment Plant - 19,529 pounds
- Load Line 4 Groundwater Treatment Plant – 2,061 pounds

RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine) total removed from the Main Groundwater Treatment Plant – 227 pounds

Total gallons of water treated:

- Main Groundwater Treatment Plant - 11,189,506,000 gallons
- Load Line 1 Groundwater Treatment Plant - 960,489,000 gallons
- Advanced Oxidation Process Treatment Plant - 1,011,084,000 gallons
- Load Line 4 Groundwater Treatment Plant - 426,588,000 gallons



Load Line 4 Groundwater Treatment Plant, Photo by ECC

The treated water from the Advanced Oxidation Process Groundwater Treatment Plant is sent to the Main Groundwater Treatment Plant for further polishing; therefore the amount of contaminated groundwater treated from the Advanced Oxidation Process

April 2012

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

Project Manager
U.S. Army
Corps of Engineers
Kansas City District
601 E. 12th Street
Kansas City, Missouri 64106
Phone (816) 389-3172

or go to the project website at

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



**US Army Corps
of Engineers** ®

Operations and Maintenance Summary (continued)

Groundwater Treatment Plant is included in the Main Groundwater Treatment Plant discharge quantity. Focused Extraction Wells 11 and 15, which pump groundwater to the Advanced Oxidation Process Groundwater Treatment Plant and Load Line 4 Groundwater Treatment Plant respectively, are installed in high contaminant concentration areas which result in high mass removal.

Cost Saving Measures

During the April Open House, a presentation will be given at 5:00, 6:00, and 7:00 p.m. to discuss current and future cost savings measures at the former Nebraska Ordnance Plant. These measures include proposed wind turbines to generate electricity and various system modifications that were implemented as the result of an energy audit. This energy audit was conducted at the former Nebraska Ordnance Plant in late 2010 and early 2011 on the four groundwater treatment plants and multiple extraction wells. The presentation will include the current status of the proposed wind turbines, the results of the energy audit, and current and projected future cost savings at the former Nebraska Ordnance Plant. Some examples of current cost-saving measures are altering the way the system starts up after a shutdown, pump replacement, and lighting modifications in the Main Groundwater Treatment Plant. More information on cost savings will be given during the presentation. The results of the energy audit are also summarized in the Energy Audit Report located at the Mead Library.

Website Has New Look

The former Nebraska Ordnance Plant website has been restructured to be more user friendly. Information and documents regarding the site were updated as well. Due to public interest, a document containing all the water levels for the well network was added to the 'Technical Information' tab. Another new feature is the 'Helpful Links' tab that will contain links to relevant websites. Please go to the Send an E-mail link under the 'Contact Us' tab if you have any questions or comments for the former Nebraska Ordnance Plant team.

Extraction Well 1 Replacement

As part of the Operations and Maintenance at the former Nebraska Ordnance Plant, groundwater extraction wells are periodically cleaned and repaired. Evaluation of each extraction well's efficiency and ability to extract groundwater is conducted annually to help identify wells in need of chemical and physical cleaning (rehabilitation). During rehabilitation of EW-1 in November 2011, the well was observed to have a break in the pipe that allowed the sand pack and formation material to enter the well. A temporary seal was placed in the well below the break and the well was placed back online under its normal operating rate. Due to the break in the well pipe, a replacement well (EW-1R) was installed adjacent to EW-1 and placed online in February 2012. EW-1R is currently operating at 200 gallons per minute and has the ability to operate in excess of 500 gallons per minute. The former EW-1 was abandoned after the installation of EW-1R.



EW-1R Installation, photo by ECC.



EW-1 Abandonment, photo by ECC.