Nebraska Department of Roads

Planning and Project Development

Hazardous Materials Memorandum

Date: September 8, 2016

To: Carmen Pellish, Highway Environmental/NEPA Specialist, Planning and Project Development

From: Will Packard, Highway Environmental Specialist, Planning and Project Development

Subject: Hazardous Materials Review Memo for the NDOR Project Alvo North (C.N. 11450).

Overview

A hazardous materials review (HMR) was completed by Olsson Associates for the Alvo North project and approved by NDOR on March 24, 2014. A HMR was required for this project because the scope of work exceeds the project exemptions. The purpose of the HMR is to identify environmental concerns associated with hazardous materials and petroleum products which could potentially be encountered during the construction project. This memo summarizes the conclusions and applicable mitigation measures found in the HMR and assists the Environmental Documents manager in completing the Hazardous Materials section of the CE Determination Form for Federal-Aid Projects. The HMR can be found in the NDOR project file.

Hazardous Material Site Discussion

The HMR identified two facilities where past releases have occurred within the hazardous materials study area. The Roads Department Greenwood yard had a release of diesel and gasoline related to an underground storage tank. This facility is located approximately .25 miles north of construction. Based on the distance, downgradient location, and the no further remedial action (NFA) status, there is a low potential of encountering contamination during construction.

A former Superfund USDA grain bin was removed about 0.1 miles east of the project in Alvo. This site is east of where the current grain bins are located in Alvo. EPA investigation revealed Carbon Tetrachloride was discovered in the soil and groundwater in the vicinity of the former grain bin. Soil contamination was greatest at depth of 12 to 20 feet below ground surface (bgs). Groundwater samples in the nearest sampling location just northeast of the former bin revealed the presence of contamination but the levels were below limits establish by NDEQ target cleanup for direct contact with contaminated groundwater. The site was closed with a no further remedial action planned because there was not a significant risk of exposure. Soil contamination is not likely to be encountered due to the distance to construction activities.

Groundwater contamination is not likely to be encountered given the flow direction is to the northeast and the shallowest depths to groundwater near Alvo (80 feet bgs, NE DNR) are below proposed excavations. Based on the information above, there is a low potential of encountering contamination originating from this site during construction.

Project Changes

The proposed project has had several changes since the review and approval of the HMR in 2014. The primary changes consist of extending the northern project limits from mile marker (MM) 10.34 to 10.47 and adding on onsite wetlands mitigation bank between stations 130.00 and 135.00 (see attached aerial). Guardrail replacement was also removed from the project scope. After review of the project changes, it has been determined that the conclusions of the HMR remain the same. The wetlands mitigation site is not in the vicinity of any hazardous material sites and the extended limits do not add any new hazardous material sites within the study area. In addition, database review did not identify any new release within the HMR study area.

Asbestos and Lead

No bridge modification or demolition is proposed as part of the project. No asbestos or lead mitigation is required.

Unexpected Waste Commitment

If contaminated soils and/or water or hazardous materials are encountered, then all work within the immediate area of the discovered hazardous material shall stop until NDOR/FHWA is notified and a plan to dispose of the Hazardous Materials has been developed. Then NDEQ shall be consulted and a remediation plan shall be developed for this project. The potential exists to have contaminants present resulting from minor spillage during fueling and service associated with construction equipment. Should contamination be found on the project during construction, the NDEQ shall be contacted for consultation and appropriate actions to be taken. The Contractor is required by NDOR's Standard Specification section 107 (legal relations and responsibilities to the public) to handle and dispose of contaminated material in accordance with applicable laws (NDOR District, Contractor).

Sincerely,

Will Packard 9/8/16

Name Date

Will Packard, Highway Environmental Specialist
Planning and Project Development
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Attachment – Wetland Mitigation Plans