

PUBLIC NOTIFICATION

Groundwater Treatment Pilot Study – Broadway Village at Lower Town

Introduction

Beginning in late July, a study will be initiated at the proposed site of Broadway Village at Lowertown to test the process proposed to clean up the groundwater. Because excavation and chemical injection will be involved, we wanted to explain what will be happening and make you aware of the precautions that will be taken to protect the public and surrounding environment.

Purpose

A groundwater treatment pilot study will soon begin at the Broadway Village development site to obtain additional information necessary to complete design and implementation of full-scale remediation of existing environmental contaminants left behind by previous uses on the site. The Pilot Study Work Plan was developed based on the results of laboratory testing, which showed chemical oxidation was an effective method in significantly reducing the concentration of perchloroethylene (PCE) in the groundwater and Site soil. The Pilot Study Work Plan has been approved by the Michigan Department of Environmental Quality (MDEQ).

The field pilot test will evaluate the effectiveness of the prescribed treatment process.

Scope of Work

The scope of work includes the introduction of sodium permanganate (NaMnO_4) into two injection wells and into an open 10ft x 26ft excavation. The excavation will be backfilled with clean fill within 2 weeks of excavation. During the period of excavation, treatment and monitoring, there will be security fencing, some heavy equipment, a construction trailer and containerized waste visible from the public right of way.

The injection wells will be constructed using 4-inch diameter, polyvinyl chloride (PVC) well screens and PVC risers extending just below ground surface. Observation wells will be installed downgradient and side gradient of the injection wells to monitor the effectiveness of the treatment.

Observation wells will also be installed approximately 5 and 10 feet from the limits of the excavation area to monitor the effects of treatment in the open excavation. Additional borings will be conducted and wells installed on-site and in the right-of-way on Broadway and across Maiden Lane to further characterize soil and groundwater both on and off-site.

Baseline samples will be collected from each of the injection wells and from the observation wells.

Treatment Method

NaMnO_4 applications will occur once in each injection well and will consist of 1,000 gallons of an 11-percent solution of NaMnO_4 injected into each injection well. Monitoring will be conducted every 2 weeks after the injection, for 8-weeks, consistent with the baseline sampling and analysis.

In addition to injection, NaMnO_4 will be introduced into open excavation areas created during the removal of PCE impacted soils, which will be disposed at an approved landfill. This technique will allow for the direct treatment of the most highly impacted groundwater as well as soils within the capillary fringe immediately above the water table.

Treatment Method (cont.)

Six thousand gallons of NaMnO₄ (5.4-percent) will be introduced into the excavation. The solution will infiltrate into the soil treating the contaminated ground water. Following introduction of the solution, 1,000 gallons of clean water will be introduced into the excavation to flush the solution into the aquifer. Following treatment, the excavation will be backfilled with clean fill. Monitoring will be conducted every 2 weeks for 8-weeks.

Data Evaluation and Reporting

Upon completion of the field pilot study, the data will be compiled and tabulated. The percent reduction of PCE as a result of the oxidation treatments will be calculated to assess the effectiveness of the tested oxidant. A report will be prepared describing the tests and test results. The field pilot study report will include the recommended injection well spacing and dosage rates for the full-scale application. The recommendations will be submitted to the MDEQ and City for final approval prior to full-scale application.

Health and Safety Monitoring Plan

An Air Monitoring Program will be implemented to monitor conditions on a real-time-basis during ground intrusive activities and NaMnO₄ application in the open excavation. The plan will include action levels, which, if reached, will trigger specific actions to ensure public safety. While site workers will likely wear tyvek suits and other personal protective equipment, this is for the protection of workers that are exposed to contaminants on an everyday basis, as required by worker safety laws. In no way does this indicate that conditions are unsuitable for the general public at the site perimeter. The general public will be protected by the air monitoring and any related action, as mentioned above.

Schedule

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| 1) | Commence Field Activities | July 25, 2006 |
| 2) | Backfill Excavation | Within 2 weeks of excavation |
| 3) | Complete Field Activities | 8 weeks after initial injections |
| 4) | Submit Report | 2 weeks following laboratory results |
| 5) | Full-scale remediation | Only upon review and approval of plan by MDEQ and City of Ann Arbor |

Additional Information available at:

http://www.strathmoredev.com/Property_for_Lease/Retail/LowerTown.html

<http://www.ci.ann-arbor.mi.us/CommunityServices/Planning/Planning/Broadwayvill.htm>

<http://clu-in.org/techfocus/default.focus/sec/In%5Fsitu%5Foxidation/cat/Overview/>

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