OTT-2- Mino Remediation ODOT PROJ # 27(13) PID 78572

Project Walk-thru Sign-In Sheet 1-28-13

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OTT-2 Mine Pilot Project – Lessons Learned PID 92919 Project 126002

1. Two types of drilling were set up on the pilot project including rotary and sonic drilling. Fine black running sand was encountered during drilling which resulted in difficultly of the rotary drilling method. Sonic drilling experienced no unexpected problems during performance of the pilot project. Rotary drilling was abandoned on the project and all remaining drill was completed using sonic drilling.
2. Acquiring a clean source of fly ash was difficult on the project. The Ohio EPA permit to drill and permit to operate set the threshold limits for heavy metals and other known contaminate to drinking water. Obtaining the fly ash test results lagged trucking the material to the pilot site in some cases. Difficulty in finding a reliable fly ash source, required use of a source located farther away than expected.
    A. ODOT has tested heavy metal and contaminate results from a composite mixture, using a variety of fly ash sources. This research led to rewriting the permit applications to allow more flexibility in handling fly ash issues.
3. Two minor sinkhole events occurred during drilling of the pilot project. Both sinkholes were contained within the project construction limits. These issues appeared to be related to an old soil boring within the project limits which also experienced problems during drilling. The seal between the boring and the top of rock was likely the concern.
4. The water source for grout mixing was a minor issue. A municipal water source was used for the pilot project.
    A. ODOT has revised the permit application to include use of mine pool water for grout mixing.
5. We performed an open barrier grout flow test during the pilot project. Barrier grout was successfully “stacked” 8 feet+ within the test trench.
6. ODOT has a TDR system set up along each side of State Route 2 in the undermined area. The TDR system “alarm” was not activated at any time during the pilot project.