

OHIO DEPARTMENT OF TRANSPORTATION

Geotechnical Consultant Workshop



May 13, 2009

ODOT Office of Geotechnical
Engineering

PERSONNEL CHANGES

STRUCTURAL ENGINEERING

- Foundations Engineer – Bashar Altarawneh

CONSTRUCTION ADMINISTRATION

- Structures (Superstructure) – Jim Welter

DISTRICTS

- District 3 Geotechnical Engineer – John Adamski
- District 7 Geotechnical Engineer – Dan Grilliot
- District 10 Geotechnical Engineer – Andy Moreland
- District 12 Geotechnical Engineer – Jason Wise

SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (REVISIONS)

JULY 2008

- **Section 300: Clarified boring location, spacing, depth, and sampling interval. Borings given boring type identifications (Type A, B, C, etc.)**
- **Section 500: Clarified terms “open standpipe piezometer” and “monitoring well”**

SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (REVISIONS)

October 2008

- **Appendix B: Added table summarizing boring types from Section 300**
- **Proposal/Invoice Form: Changed Overhead Percentage for calculation of net fee to 172.03%**
- **Corrected references, web links, grammatical errors**

SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (REVISIONS)

JANUARY 2009

- **Appendix D: Added Sample Plan Sheets for Geohazard Exploration**
- **Corrected Soil Profile Sample Plan Sheets**

MANUAL FOR ABANDONED UNDERGROUND MINE INVENTORY AND RISK ASSESSMENT (AUMIRA)

FIRST REVISIONS OF ANY KIND SINCE 1998

- **New Title: Manual for Underground Void Inventory and Risk Assessment (UVIRA)**
- **Includes tunnels and other man-made voids**
- **Excludes utilities and storm sewers**
- **Revision in progress, complete by September 2009**

GEOTECHNICAL BULLETINS (REVISIONS)

GB1: PLAN SUBGRADES

- Adding granular replacement with geogrid for $N < 5$ (revision pending)

GB2: SPECIAL BENCHING AND SIDEHILL EMBANKMENT FILLS

- Added method to repair shallow embankment failures without disturbing the shoulder (rev. 11/04/08)

GB4: GUIDANCE FOR THE USE OF GEOTECHNICAL INSTRUMENTATION

- Complements SGE Section 500 (issued 05/30/08)

GEOHAZARD INVENTORIES

ABANDONED UNDERGROUND MINES (AUMIRA)

- **Inventory complete (1925 sites). Complete report by September 2009.**

ROCKFALL

- **Inventory 50% complete (21 counties complete totaling more than 3100 sites). 3 consultant teams and 2 part-time ODOT teams. Complete by July 2010.**

LANDSLIDES

- **11 counties complete. 5 counties partially complete. Started inventory May 2008. 4 consultant and 2 part-time ODOT teams. Complete by July 2012.**

GEOTECHNICAL DOCUMENT MANAGEMENT SYSTEM

- OGE DOCUMENT ARCHIVE SCANNING COMPLETE**
- OSE DOCUMENT ASSESSMENT COMPLETED**
- OSE DOCUMENT SCANNING BEGAN JANUARY 2009**
- ACCESS TO INTERNAL USERS (OGE) BEGAN 2007**
- ACCESS TO DGE'S GIVEN JANUARY 2008**
- ACCESS TO EXTERNAL USERS PENDING**

GEOTECHNICAL RESEARCH

EMBANKMENT SHEAR STRENGTHS (Complete 09/01/09)

- T. Masada, Ohio University**

ROCK SLOPE DESIGN (Complete 02/15/10)

- A. Shakoor, Kent State University**

EVALUATION OF CPT (Complete 06/30/10)

- P. Fox, Ohio State University**

LANDSLIDE STABILIZATION USING DRILLED SHAFTS

(Complete 01/31/10)

- R. Liang, University of Akron**

BIOENGINEERING, PHASE 2 (Begin 07/01/10, Complete 06/30/12)

- P. Fox/T.H. Wu, Ohio State University**

STATE PLANNING AND RESEARCH FUNDING - FY2010

GEOTECHNICAL DATA MANAGEMENT SYSTEM

ROCKFALL STATEWIDE INVENTORY

LABORATORY INFORMATION MANAGEMENT SYSTEM

GEOHAZARD MANAGEMENT SYSTEM

LANDSLIDE STATEWIDE INVENTORY



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