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EXPLORATION FINDINGS

S.R. 310

THE ROADWAY BORINGS ON S.R. 310, B-001-0-14 THROUGH B-003-0-14 AND B-009-0-14 THROUGH B-014-0-14, ENCOUNTERED PREDOMINATELY COHESIVE SOILS RANGING FROM SANDY SILT (A-4a) TO SILTY CLAY (A-6b). THESE SOILS WERE ENCOUNTERED IN MEDIUM STIFF TO VERY STIFF CONSISTENCY AND IN DAMP TO MOIST CONDITION. B-014-0-14 ENCOUNTERED GRAVEL AND STONE FRAGMENTS WITH SAND, SILT AND CLAY (A-2-6) CONSISTING OF RUBBLIZED ASPHALT PARTICLES IN MEDIUM DENSE COMPACTNESS TO A DEPTH OF 4 FEET, ELEVATION 1051.7 FEET MSL. ASPHALT AND BASE MATERIAL WAS REPORTED IN SEVEN (7) OF THE BORINGS, CONSISTING OF 6 INCHES OF BASE MATERIAL AND ASPHALT RANGING FROM 6 INCHES TO 14 INCHES IN THICKNESS.

FREE WATER WAS ENCOUNTERED IN B-013-0-14 AT 9 FEET BELOW THE GROUND SURFACE, ELEV. 1037.3 MSL IN AN A-2-4 LAYER. THE SOIL WAS OF LOOSE TO MEDIUM DENSE COMPACTNESS AND IN A DAMP TO MOIST CONDITION.

SULFATE TEST RESULTS FOR THE BORINGS WERE BELOW 3,000 PPM, EXCEPT FOR B-014-0-14. SAMPLE NO. 1 OF B-014-0-14, THE RUBBLIZED ASPHALT, FROM 1 FOOT TO 2.5 FEET, HAD A SULFATE VALUE OF 3,027 PPM.

RAMP A

BORINGS B-010-0-14, B-015-0-14 AND B-016-0-14 DRILLED ON RAMP A ENCOUNTERED SILT AND CLAY (A-6a) AND SILTY CLAY (A-6b) SOILS. THE SOILS RANGED IN CONSISTENCY FROM MEDIUM STIFF TO VERY STIFF AND MOIST TO DAMP CONDITION. ALL OF THE BORINGS ENCOUNTERED 6 INCHES OF BASE MATERIAL AND 6 INCHES TO 11 INCHES OF ASPHALT.

WATER WAS NOT ENCOUNTERED IN ANY OF THE BORINGS.

SULFATE VALUES RANGED FROM LESS THAN 100 PPM TO 447 PPM.

RAMP B

BORINGS B-009-0-14, B-017-0-14 AND B-018-0-14 DRILLED ON RAMP B ALSO ENCOUNTERED SILT AND CLAY (A-6a) AND SILTY CLAY (A-6b) SOILS. CONSISTENCY OF THE SOILS RANGED FROM MEDIUM STIFF TO VERY STIFF AND THE CONDITION WAS MOIST TO DAMP. 5 INCHES OF TOPSOIL WAS REPORTED AT THE TOP OF BORING B-017-0-14 AND 6 INCHES OF BASE MATERIAL AND 8 INCHES OF ASPHALT WAS REPORTED IN B-018-0-14.

WATER WAS NOT ENCOUNTERED IN ANY OF THE BORINGS.

THE SULFATE VALUES RANGED FROM 340 PPM IN SAMPLE NO. 1 IN BORING B-009-0-14 TO 580 PPM FROM SAMPLE NO. 1 IN BORING B-018-0-14.

RAMP C

THE PREDOMINANT SOIL TYPES WERE AGAIN SILT AND CLAY (A-6a) AND SILTY CLAY (A-6b) IN BORINGS B-0019-0-14 AND B-20-0-14 ON RAMP C. THOSE SOILS WERE AGAIN REPORTED TO BE MEDIUM STIFF TO VERY STIFF IN CONSISTENCY AND DAMP IN CONDITION. GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT (A-2-4) WAS REPORTED FROM THE TOP OF B-020-0-14 TO A DEPTH OF 6.5 FEET. THIS SOIL LAYER WAS MEDIUM DENSE TO DENSE IN COMPACTNESS AND DAMP IN CONDITION.

WATER WAS NOT ENCOUNTERED IN EITHER OF THE BORINGS.

THE SULFATE VALUE FROM SAMPLE NO. 1 IN BORING B-019-0-14 WAS 1113 PPM AND 1047 PPM FROM SAMPLE NO. 1 IN BORING B-020-0-14.

RAMP D

BORING B-021-0-14 AND B-022-0-14 WERE DRILLED ON RAMP D. B-021-0-14 ENCOUNTERED CLAY (A-7-6). THE CLAY WAS VERY STIFF IN CONSISTENCY AND IN DAMP CONDITION. SILT AND CLAY (A-6a) WAS AGAIN ENCOUNTERED IN B-022-0-14. THE SOIL WAS STIFF TO VERY STIFF IN CONSISTENCY AND IN DAMP TO MOIST CONDITION.

WATER WAS NOT ENCOUNTERED IN EITHER OF THE BORINGS.

THE SULFATE VALUE FROM SAMPLE NO. 1 IN BORING B-021-0-14 WAS 1093 PPM AND THE SULFATE VALUE FROM SAMPLE NO. 1 IN BORING B-022-0-14 WAS LESS THAN 100 PPM.

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THE STRUCTURAL BORINGS ENCOUNTERED HIGHLY VARIABLE MATERIALS CONTAINING BOTH GRANULAR AND COHESIVE SOILS. THE GRANULAR SOILS ENCOUNTERED RANGED FROM GRAVEL (A-1-a) TO SILT (A-4b) IN LOOSE TO DENSE COMPACTNESS AND MOIST TO WET CONDITION. THE COHESIVE SOILS ENCOUNTERED RANGED FROM SANDY SILT (A-4a) TO SILTY CLAY (A-6b) IN STIFF TO HARD COMPACTNESS AND DAMP TO WET CONDITION.

STATIC WATER LEVELS WERE NOTED BETWEEN ELEVATION 1041.7 FEET MSL AND 1061.9 FEET MSL. HEAVING SANDS, RANGING FROM 1 FOOT TO 7.1 FEET, WERE RECORDED BELOW ELEVATION 1067.4 FEET MSL IN B-004-0-11 AND ELEVATION 1070.7 FEET MSL IN B-008-0-11.

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED AUGUST 2013.

AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE GEOTECHNICAL EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE OR THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1980 WEST BROAD STREET.

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SOIL PROFILE  
EXPLORATION NOTES (CONT.)

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