

**PROJECT DESCRIPTION**

GENERAL SYSTEM MAJOR REHABILITATION; RUBBLIZING THE EXISTING CONCRETE BASE AND RECONSTRUCTING SR 212 AND SR 800 FROM DOVER TO STARK COUNTY WITH NEW ASPHALT PAVEMENT.

**HISTORIC RECORDS**

HISTORICAL GEOTECHNICAL RECORDS FOR THE STUDY AREA WERE LOCATED WITHIN THE ODOT TRANSPORTATION INFORMATION MAPPING SYSTEM (TIMS) AND DISTRICT FILES. GEOTECHNICAL EXPLORATIONS FOR THE CURRENT ALIGNMENT WERE COMPLETED IN 1941 AND 1944. TUS-8-26.28/30.83 WAS COMPLETED IN 1941 FROM JUST NORTH OF DOVER TO MINERAL CITY AND ENCOUNTERED UNSUITABLE MATERIALS CONSISTING OF BEDROCK AND SILT AT SUBGRADE ELEVATIONS WHICH WERE RECOMMENDED FOR REMOVAL. TUS-8-0.00/4.35 WAS COMPLETED IN 1944 FROM MINERAL CITY TO THE TUSCARAWAS-STARK COUNTY LINE AND ENCOUNTERED UNSUITABLE MATERIALS CONSISTING OF BEDROCK, MINE SPOILS AND SILT AT SUBGRADE ELEVATIONS WHICH WERE RECOMMENDED FOR REMOVAL. THIS INFORMATION IS AVAILABLE, BUT NOT SHOWN FOR CLARITY. GEOHAZARD EXPLORATIONS WERE COMPLETED AT TUS-800-24.61/26.30 IN 1999 WHICH ARE NOT PRESENTED FOR CLARITY. THREE (3) RECENT GEOHAZARD EXPLORATIONS, TUS-800-25.10 (2017), TUS-800-26.67 (2018) AND TUS-800-27.11 (2019) HAD BORINGS COMPLETED WITHIN THE EXISTING PAVEMENT AND WERE INCLUDED IN THE CURRENT DATA PACKAGE.

**GEOLOGY**

THE STUDY AREA IS LOCATED WITHIN THE NON-GLACIATED MUSKINGUM-PITTSBURGH PLATEAU. THIS AREA IS CHARACTERIZED AS A MODERATELY HIGH TO HIGH RELIEF DISSECTED PLATEAU, HAVING BROAD MAJOR DRAINAGE VALLEYS THAT CONTAIN OUTWASH TERRACES, AND TRIBUTARIES WITH LACUSTRINE TERRACES. THE STUDY AREA TYPICALLY IS LOCATED ALONG THE VALLEY OF THE TUSCARAWAS RIVER AND CONOTTON CREEK FROM DOVER TO MINERAL CITY AND ALONG THE VALLEY OF SANDY CREEK AND NIMISHILLEN CREEK JUST SOUTH OF THE TUSCARAWAS-STARK COUNTY LINE. THESE AREAS ARE TYPICALLY BROAD VALLEYS CONTAINING PRE-GLACIAL BEDROCK VALLEY FILLED EXCEPT IN THE VICINITY OF DOVER DAM IN WHICH THE VALLEY IS NARROW GORGE-LIKE WITH STEEP VALLEY WALLS CONTAINING THIN RESIDUAL AND COLLUVIAL SOILS. ACCORDING TO THE GEOLOGY OF TUSCARAWAS COUNTY (ODNR GEOLOGIC BULLETIN 55), TYPICALLY THE BROAD VALLEYS ARE FILLED WITH NON-COHESIVE GLACIAL OUTWASH EXTENDING ABOVE THE CURRENT STREAM CHANNELS WITH THIN ALLUVIAL DEPOSITS CLOSER TO THE STREAM CHANNELS. IMMEDIATELY NORTH OF MINERAL CITY, AWAY FROM THE MAJOR STREAM CHANNELS, TYPICALLY COHESIVE SOILS AND SHALLOW BEDROCK WERE ENCOUNTERED. BEDROCK ENCOUNTERED WITHIN THE STUDY AREA IS COMPRISED OF SANDSTONE, SILTSTONE, AND SHALE FROM THE ALLEGHENY AND POTTSVILLE GROUPS. IN AREAS ALONG THE BROAD DRAINAGE VALLEYS POTTSVILLE BEDROCK IS PRESENT WITH ALLEGHENY BEDROCK PRESENT IMMEDIATELY NORTH OF MINERAL CITY.



**RECONNAISSANCE**

SITE RECONNAISSANCE NOTED THE PAVEMENT WAS IN POOR CONDITION DUE TO AGE. CRACK SEALING, RUTTING, AND AREAS OF MILLING AND RESURFACING, ESPECIALLY ALONG THE OUTER EDGES AND CENTERLINE, WERE NOTED THROUGHOUT THE STUDY AREA. GENERALLY, THE STUDY AREA IS RELATIVELY FLAT TO MODERATE RELIEF. THE ADJACENT LAND USAGE WAS NOTED AS AGRICULTURAL, RURAL RESIDENTIAL, COMMERCIAL, WOODED AND FLOODPLAIN. IN THE VICINITY OF DOVER DAM, LEANING GUARDRAIL AND EVIDENCE OF A HEAD SCARP WITHIN THE PAVEMENT WERE PRESENT IN AN AREA OF PAST INSTABILITY. BEDROCK WAS TYPICALLY EXPOSED IN THE UPSLOPE HILLSIDE AND GENERALLY THE LAND USAGE WAS WOODED HILLSIDE.

**SUBSURFACE EXPLORATION**

ONE HUNDRED AND EIGHT (108) BORINGS, B-001-0-19 THROUGH B-108-0-19, WERE COMPLETED FOR THE PROJECT BETWEEN OCTOBER 28 AND NOVEMBER 26, 2019. ALL BORINGS WERE COMPLETED WITH A TRUCK MOUNTED CME 55 ROTARY DRILL RIG USING 3.5-INCH SOLID FLIGHT AUGERS TO ADVANCE THE BORINGS THROUGH THE SOIL. DISTURBED SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT CONTINUOUS INTERVALS FOR THE FULL DEPTH OF THE BORINGS. THE HAMMER SYSTEM USED WAS LAST CALIBRATED ON APRIL 2, 2018, AND THE AVERAGE DRILL ROD ENERGY RATIO (ER) WAS 87%.

**LEGEND**

-  B-00X-0-19 PROJECT BORING LOCATION - PLAN VIEW.
-  B-00X-0-XX HISTORICAL BORING LOCATION - PLAN VIEW.

**EXPLORATION FINDINGS**

SUBSURFACE CONDITIONS REVEALED BY THE BORINGS INDICATE THAT THE CURRENT PAVEMENT IS COMPRISED OF AN ASPHALT SURFACE UNDERLAIN BY CONCRETE BASE WITH A FULL DEPTH ASPHALT OUTSIDE EDGE IN AREAS. FROM DOVER TO MINERAL CITY THE ASPHALT SURFACE RANGED FROM 9 TO 15.5 INCHES AND THE CONCRETE BASE RANGED FROM 6.5 TO 10 INCHES. BORINGS IN THE FULL DEPTH ASPHALT AREAS ENCOUNTERED 16 TO 24 INCHES OF ASPHALT. FROM MINERAL CITY TO THE TUSCARAWAS-STARK COUNTY LINE THE BORINGS ENCOUNTERED ASPHALT SURFACE THAT RANGED FROM 3.5 TO 9.25 INCHES AND THE CONCRETE BASE RANGED FROM 8.5 TO 9.5 INCHES. BENEATH THE PAVEMENT THE BORINGS ENCOUNTERED PREDOMINATELY (75%) NON-COHESIVE SOILS RANGING FROM GRAVEL AND/OR STONE FRAGMENTS (A-1-a) TO SILT (A-4b), EXCEPT FOR GRAVEL AND/OR STONE FRAGMENTS WITH SAND, SILT AND CLAY (A-2-5). THESE SOILS RANGED FROM LOOSE TO VERY DENSE IN COMPACTNESS AND DAMP TO WET IN CONDITION. COHESIVE SOILS WERE ENCOUNTERED ACROSS APPROXIMATELY 18% OF THE SAMPLES RANGING FROM SANDY SILT (A-4a) TO SILTY CLAY (A-6b) AND CLAY (A-7-6). THESE SOILS RANGED FROM SOFT TO HARD IN CONSISTENCY AND DAMP TO WET IN CONDITION. ROCK WAS ENCOUNTERED IN 7% OF THE SAMPLES. UNSTABLE CLASSIFIED SOILS WERE ENCOUNTERED IN 37% OF THE SUBGRADE SAMPLES AND 3% OF THE SUBGRADE SAMPLES WERE UNSUITABLE. SHALE OR SANDSTONE BEDROCK WAS ENCOUNTERED WITHIN 3 FEET OF SUBGRADE IN B-042-0-19, B-066-0-19, B-068-0-19 AND B-070-0-19. SILT (A-4b) WAS ENCOUNTERED WITHIN 3 FEET OF SUBGRADE IN B-049-0-19, B-064-0-19, AND B-071-0-19. ONE SULFATE TEST RESULT EXCEEDED 3,000 PPM FROM 3.5' -5.0' IN B-009-0-19.

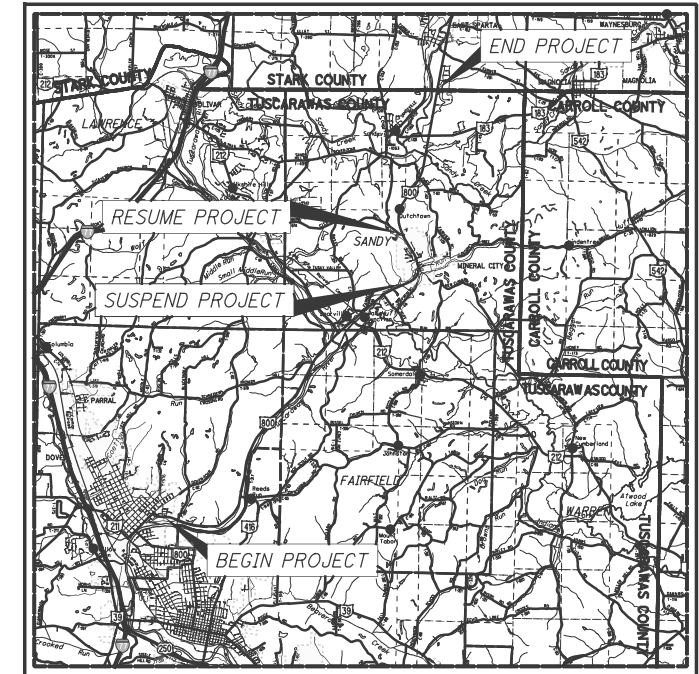
ALL BORINGS WERE REPORTED AS BEING DRY AT COMPLETION. FREE WATER WAS NOTED IN B-010-0-19 AT ELEVATION 867.7 FT., B-28-0-19 AT ELEVATION 873.9 FT., AND B-080-0-19 AT ELEVATION 957.6 FT. DURING DRILLING.

**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 JANUARY 2019.

**AVAILABLE INFORMATION**

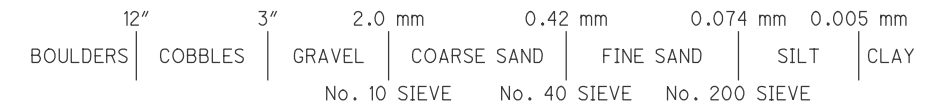
THE SOIL, BEDROCK, AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE SOIL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.



LOCATION MAP  
SCALE IN MILES



**PARTICLE SIZE DEFINITIONS**



|                   |         |                   |
|-------------------|---------|-------------------|
| <b>DRILLING -</b> | DML     | 09/19/17          |
|                   | DML     | 06/11-12/18       |
|                   | STANTEC | 09/19/19          |
|                   | KAM     | 10/28/19-11/20/19 |
|                   | CEM     | 11/18/19          |
|                   | DML     | 11/25-26/19       |
| <b>DRAWN -</b>    | ARR     | 01/24/20          |
| <b>REVIEWED -</b> | SAT     | 01/24/20          |

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DESIGN AGENCY  
OHIO DEPARTMENT OF TRANSPORTATION  
OFFICE OF GEOTECHNICAL ENGINEERING  
1950 W. BROAD ST. COLUMBUS, OH 43223

PID NO.  
**100603**

**BORING LOCATION PLAN**

**TUS-800-22.7.4**







MATCHLINE SHEET 4

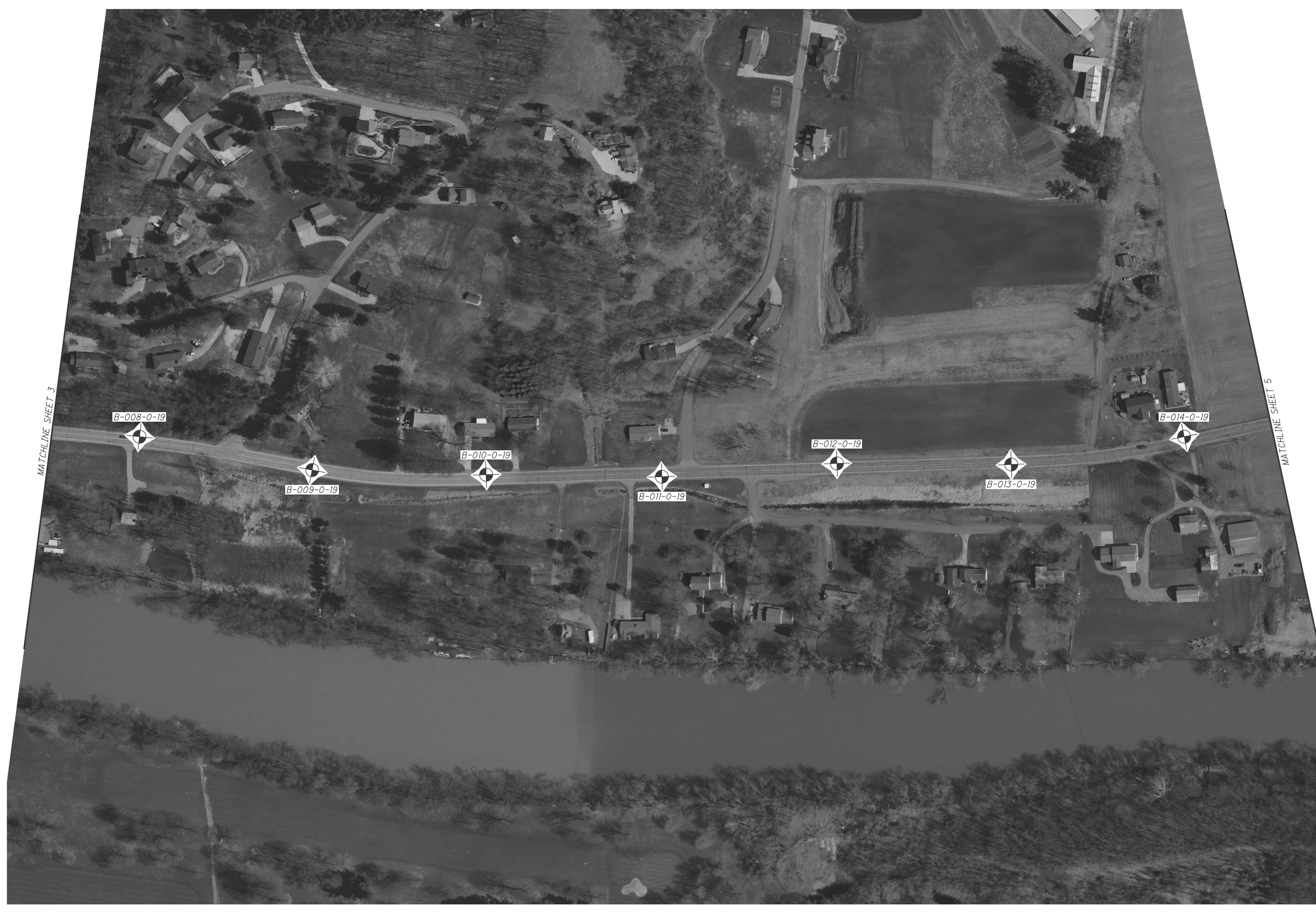


DRAWN  
ARR  
CHECKED  
SAT

0 100 200  
50  
HORIZONTAL  
SCALE IN FEET

**BORING LOCATION PLAN**  
**B-001-0-19 TO B-007-0-19**

**TUS-800-22.74**





DRAWN  
ARR  
CHECKED  
SAT



50  
100  
200  
HORIZONTAL  
SCALE IN FEET

**BORING LOCATION PLAN  
B-015-0-19 TO B-021-0-19**

**TUS-800-22.74**

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MATCHLINE SHEET 5

MATCHLINE SHEET 7



DRAWN  
ARR  
CHECKED  
SAT

0 100 200  
HORIZONTAL  
SCALE IN FEET

TUS-800-22.74

6 / 24

**BORING LOCATION PLAN**  
**B-022-0-19 TO B-027-0-19**



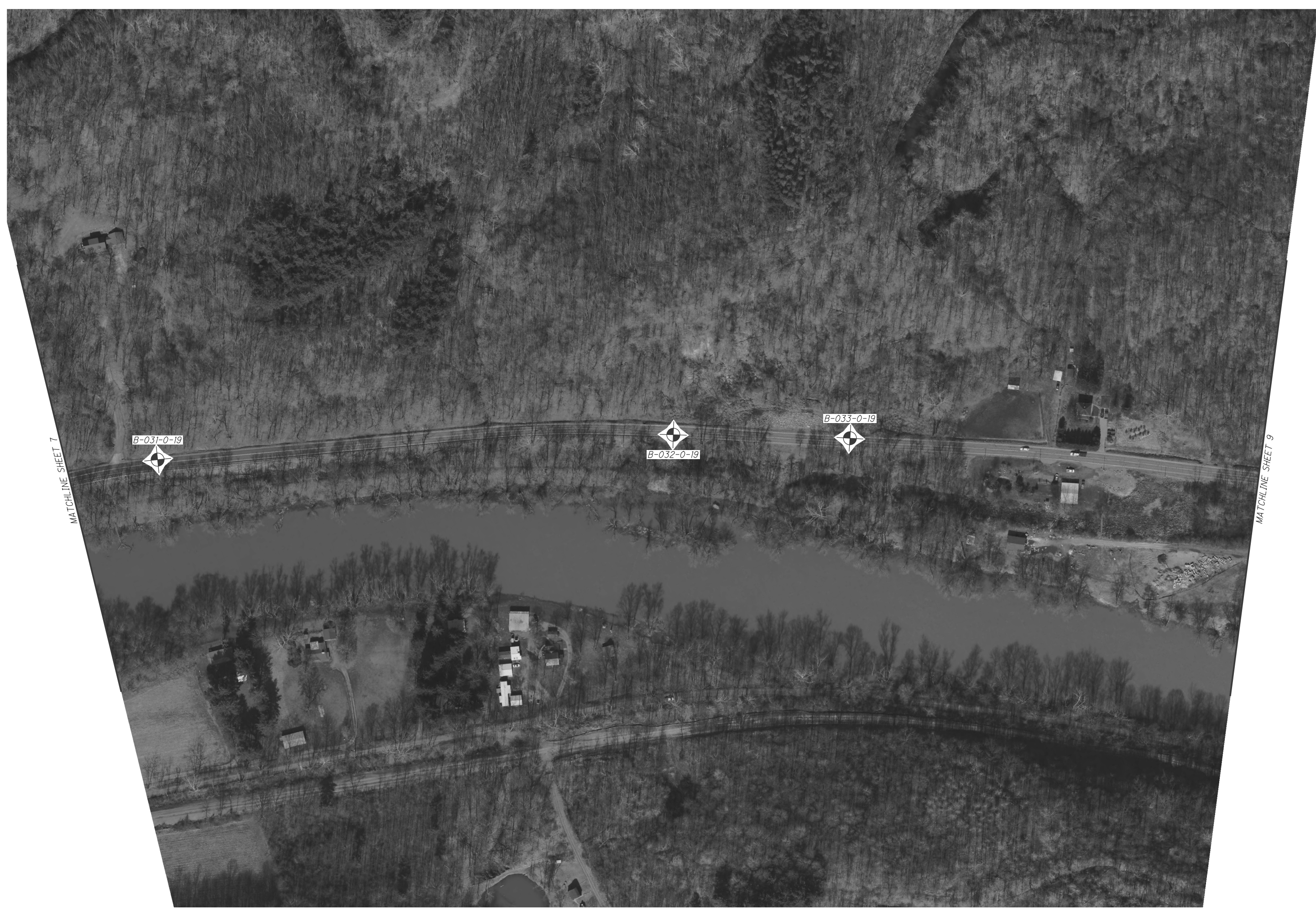
MATCHLINE SHEET 6

MATCHLINE SHEET 8

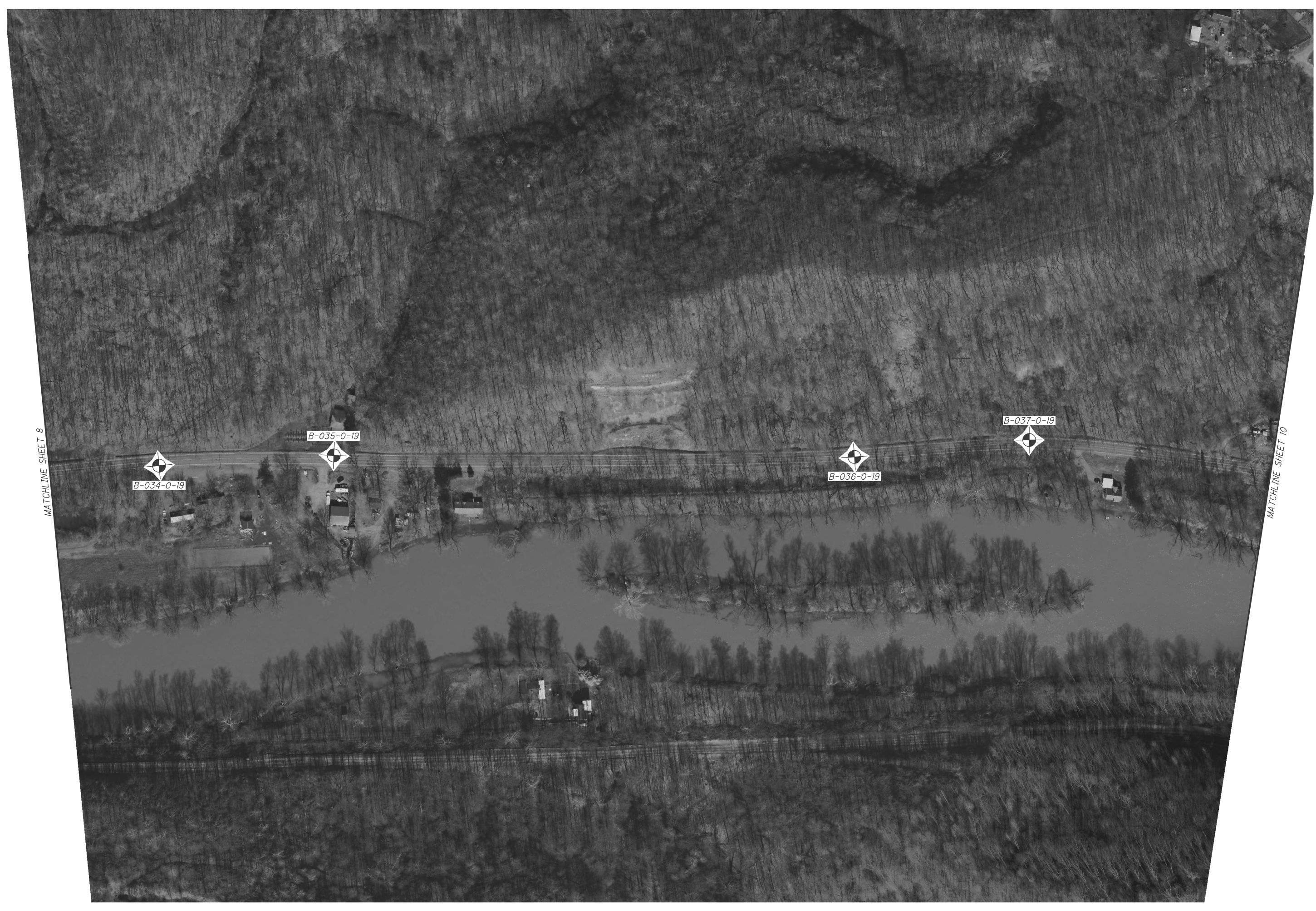


|       |     |         |     |
|-------|-----|---------|-----|
| DRAWN | ARR | CHECKED | SAT |
|-------|-----|---------|-----|

**BORING LOCATION PLAN**  
**B-028 - B-030-0-19 & B-001-0-17 & B-002-0-17**







MATCHLINE SHEET 8

MATCHLINE SHEET 10



0 100 200  
HORIZONTAL  
SCALE IN FEET

DRAWN  
ARR  
CHECKED  
SAT

**BORING LOCATION PLAN  
B-034-0-19 TO B-037-0-19**

**TUS-800-22.74**



MATCHLINE SHEET 9

MATCHLINE SHEET 11





MATCHLINE SHEET 11



MATCHLINE SHEET 13



0 100 200  
 HORIZONTAL  
 SCALE IN FEET

DRAWN  
 ARR  
 CHECKED  
 SAT

**BORING LOCATION PLAN**  
**B-045-0-19 TO B-048-0-19**

**TUS-800-22.74**





MATCHLINE SHEET 14



MATCHLINE SHEET 16



MATCHLINE SHEET 15

MATCHLINE SHEET 17





MATCHLINE SHEET 16



SUSPEND PROJECT THROUGH MINERAL CITY  
FOR BORINGS B-065-0-19 TO B-071-0-19, SEE SHEET 18



RESUME PROJECT OUTSIDE MINERAL CITY  
FOR BORINGS B-062-0-19 TO B-064-0-19, SEE SHEET 17

B-065-0-19

B-066-0-19

B-067-0-19

B-068-0-19

B-069-0-19

B-070-0-19

B-071-0-19

MATCHLINE SHEET 19



DRAWN  
ARR  
CHECKED  
SAT

**BORING LOCATION PLAN**  
**B-065-0-19 TO B-071-0-19**

**TUS-800-22.74**





DRAWN  
ARR  
CHECKED  
SAT

0 100 200  
HORIZONTAL  
SCALE IN FEET

**BORING LOCATION PLAN**  
**B-072-0-19 TO B-077-0-19**

**TUS-800-22.74**

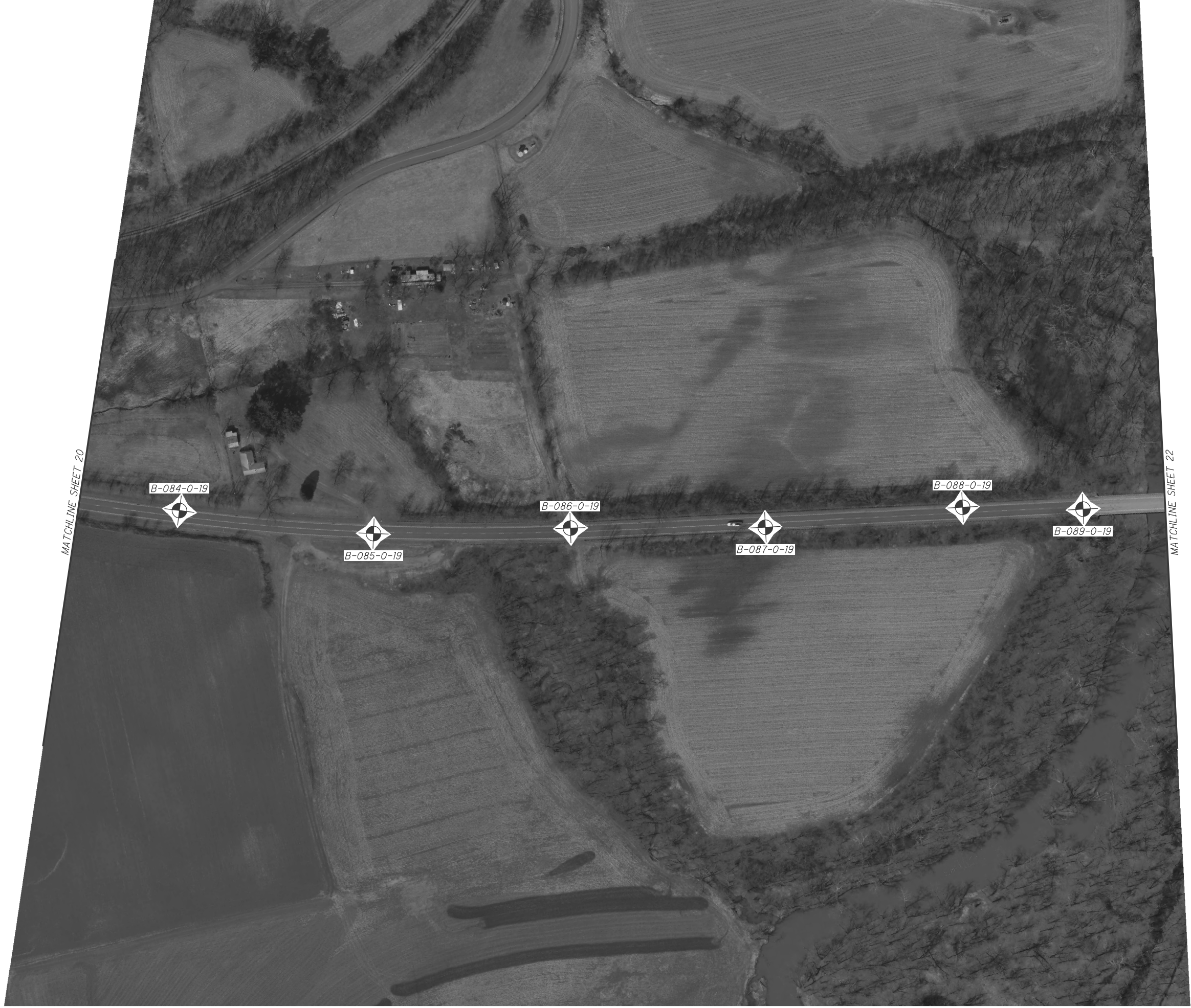


0 100 200  
HORIZONTAL  
SCALE IN FEET

DRAWN  
ARR  
CHECKED  
SAT

**BORING LOCATION PLAN**  
**B-078-0-19 TO B-083-0-19**

**TUS-800-22.74**



MATCHLINE SHEET 21



MATCHLINE SHEET 23

MATCHLINE SHEET 22



MATCHLINE SHEET 24

MATCHLINE SHEET 23



0 100 200  
HORIZONTAL  
SCALE IN FEET

DRAWN  
ARR  
CHECKED  
SAT

**BORING LOCATION PLAN  
B-102-0-19 TO B-108-0-19**

**TUS-800-22.74**



|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-001-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 912.5 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 10/28/19 END: 10/28/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.524584, -81.462345      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES                                 | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.0") & CONCRETE (8.0")                                  | 912.5 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| LOOSE, BROWN, GRAVEL WITH SAND, LITTLE SILT,<br>TRACE CLAY, MOIST | 911.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @3.0'; MEDIUM DENSE, TRACE SILT                                   |       | 2      | 2           | 9               | 78         | SS-1         | -           | 25            | 24 | 27 | 17 | 7  | NP        | NP | NP | 12 | A-1-b (0)          | 270        |              |
| @4.5'; GRAVEL AND STONE FRAGMENTS WITH<br>SAND                    |       | 3      | 3           | 13              | 44         | SS-2         | -           | 41            | 27 | 19 | 9  | 4  | NP        | NP | NP | 12 | A-1-b (0)          | 190        |              |
|   |       | 4      | 5           | 15              | 56         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|   |       | 5      | 3           | 5               | 5          |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 6      | 5           | 15              | 56         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|   |       | 7      | 6           | 12              | 100        | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-1-b (V)          | -          |              |
|   | 905.0 | EOB    | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-002-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 914.5 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/30/19 END: 10/30/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.524541, -81.460904      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (14.5") & CONCRETE (7.0")  | 914.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 912.7 | 2      | 55          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY,<br>MOIST<br>@3.5'; DAMP |       | 3      | 8           | 20              | 44         | SS-1         | -           | 18            | 37 | 25 | 13 | 7  | NP        | NP | NP | 7  | A-1-b (0)          | 160        |              |
|  |       | 4      | 8           | 6               | 16         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-1-b (V)          | -          |              |
|  |       | 5      | 5           | 5               | 16         | SS-3         | -           | 31            | 29 | 24 | 10 | 6  | NP        | NP | NP | 8  | A-1-b (0)          | 130        |              |
|  |       | 6      | 5           | 6               | 16         | SS-3         | -           | 31            | 29 | 24 | 10 | 6  | NP        | NP | NP | 8  | A-1-b (0)          | 130        |              |
|  |       | 7      | 7           | 6               | 16         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|  | 906.5 | 8      | 5           | 6               | 16         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-003-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 911.4 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/28/19 END: 10/28/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.524289, -81.459501      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (13.0") & CONCRETE (7.5")   | 911.4 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 909.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, WET   |       | 2      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 3      | 5           | 13              | 44         | SS-1         | -           | 41            | 25 | 14 | 13 | 7  | 21        | 15 | 6  | 14 | A-1-b (0)          | 220        |              |
|   |       | 4      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 906.4 | 5      | 7           | 19              | 17         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 18 | A-1-b (V)          | -          |              |
|   |       | 6      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS, SOME SAND, TRACE SILT, TRACE CLAY, MOIST |       | 7      | 5           | 13              | 44         | SS-3         | -           | 51            | 19 | 16 | 9  | 5  | NP        | NP | NP | 13 | A-1-a (0)          | 240        |              |
|   |       | 8      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 903.4 | EOB    | 6           | 20              | 78         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-1-a (V)          | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 10 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-004-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>886.1 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/30/19</u> END: <u>10/30/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.523883, -81.458154</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (20.0")  | 886.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 884.4 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS</b> , "AND" SAND, TRACE SILT, TRACE CLAY, MOIST |       | 2      | 9           | 20              | 56         | SS-1         | -           | 56            | 23 | 13 | 6  | 2  | NP        | NP | NP | 9  | A-1-a (0)          | 170        |              |
|  |       | 3      | 6           | 5               | 16         | SS-2         | -           | 51            | 21 | 17 | 7  | 4  | NP        | NP | NP | 9  | A-1-a (0)          | 150        |              |
| @5.0'; LOOSE   |       | 4      | 6           | 5               | 16         | SS-2         | -           | 51            | 21 | 17 | 7  | 4  | NP        | NP | NP | 9  | A-1-a (0)          | 150        |              |
|  |       | 5      | 4           | 5               | 9          | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-1-a (V)          | -          |              |
|  |       | 6      | 3           | 3               | 9          | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-1-a (V)          | -          |              |
|  |       | 7      | 3           | 3               | 9          | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 6  | A-1-a (V)          | -          |              |
|  | 878.1 | 8      | 3           | 3               | 9          | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 6  | A-1-a (V)          | -          |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-005-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 875.0 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/28/19 END: 10/28/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.523400, -81.456849      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (14.5") & CONCRETE (7.5")   | 875.0 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 873.2 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY,<br>WET |       | 2      | 5           | 29              | 56         | SS-1         | -           | 40            | 22 | 19 | 13 | 6  | NP        | NP | NP | 12 | A-1-b (0)          | 190        |              |
| @3.9'; MOIST  |       | 3      | 16          | 32              | 67         | SS-2A        | -           | -             | -  | -  | -  | -  | -         | -  | -  | 16 | A-1-b (V)          | -          |              |
| @5.0'; TRACE SILT   |       | 4      | 14          | 8               |            | SS-2B        | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|   |       | 5      | 3           | 7               | 16         | 89           | SS-3        | -             | 48 | 16 | 21 | 9  | 6         | NP | NP | NP | 11                 | A-1-b (0)  | 470          |
|   |       | 6      | 7           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 7      | 4           | 4               | 12         | 39           | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-1-b (V)          | -          |              |
|   | 867.0 | 8      | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 10 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-006-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 874.2 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/30/19 END: 10/30/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.523058, -81.455469      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (13.5") & CONCRETE (9.0")  | 874.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 872.3 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| LOOSE, BROWN, <b>SANDY SILT</b> , LITTLE GRAVEL,<br>LITTLE CLAY, WET                                     |       | 2      | 1           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 3      | 3           | 7               | 22         | SS-1         | -           | 17            | 15 | 28 | 26 | 14 | NP        | NP | NP | 20 | A-4a (1)           | 190        |              |
| @3.5'; REDDISH BROWN, TRACE GRAVEL AND STONE<br>FRAGMENTS, MOIST   |       | 4      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 869.2 | 5      | 3           | 9               | 83         | SS-2         | -           | 6             | 2  | 48 | 29 | 15 | NP        | NP | NP | 16 | A-4a (2)           | 210        |              |
| LOOSE, REDDISH BROWN, <b>COARSE AND FINE<br/>SAND</b> , LITTLE SILT, LITTLE CLAY, TRACE GRAVEL,<br>MOIST |       | 6      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 866.2 | 7      | 3           | 7               | 78         | SS-3         | -           | 1             | 1  | 67 | 18 | 13 | NP        | NP | NP | 16 | A-3a (0)           | -          |              |
|  |       | 8      | 2           | 6               | 100        | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 17 | A-3a (V)           | -          |              |
|  |       | EOB    | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                |
|-------------------------------|--|--------------------------|--|----------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET:                      | EXPLORATION ID |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        | B-007-0-19     |
| PID: 100603 SFN:              | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 875.8 (NAVD88) EOB: 8.0 ft. | PAGE           |
| START: 10/28/19 END: 10/28/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.522613, -81.454142      | 1 OF 1         |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.0") & CONCRETE (7.5")   | 875.8 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 873.9 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN AND GRAY, <b>SANDY SILT</b> , SOME CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, MOIST      | 872.3 | 2      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 3      | 3           | 9               | 28         | SS-1         | 2.00        | 18            | 11 | 27 | 22 | 22 | 22        | 15 | 7  | 17 | A-4a (2)           | 490        |              |
| LOOSE, GRAY AND BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, MOIST |       | 4      | 2           | 6               | 56         | SS-2         | -           | 34            | 16 | 26 | 14 | 10 | NP        | NP | NP | 16 | A-1-b (0)          | 920        |              |
|   |       | 5      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 869.3 | 6      | 10          | 28              | 44         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 18 | A-1-b (V)          | -          |              |
|   |       | 7      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, GRAY AND BROWN, <b>SILT AND CLAY</b> , "AND" SAND, LITTLE GRAVEL AND STONE FRAGMENTS, MOIST  | 867.8 | 7      | 4           | 12              | 78         | SS-4         | 1.50        | 15            | 8  | 31 | 20 | 26 | 27        | 16 | 11 | 20 | A-6a (3)           | -          |              |
|   |       | 8      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 10 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-008-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>876.9 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/29/19</u> END: <u>10/29/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.522390, -81.452729</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.5") & CONCRETE (7.5")  | 876.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 875.0 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN AND GRAY, <b>SILT AND CLAY</b> , "AND"<br>SAND, TRACE GRAVEL AND STONE FRAGMENTS,<br>MOIST      |       | 2      | 1           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 3      | 3           | 12              | 33         | SS-1         | 1.00        | 1             | 15 | 28 | 22 | 34 | 27        | 16 | 11 | 17 | A-6a (5)           | 630        |              |
|  |       | 4      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 871.9 | 5      | 8           | 22              | 39         | SS-2         | 1.00        | -             | -  | -  | -  | -  | -         | -  | -  | 16 | A-6a (V)           | -          |              |
| VERY STIFF, REDDISH BROWN, <b>SILTY CLAY</b> , SOME<br>SAND, TRACE STONE FRAGMENTS, MOIST<br><br>@6.5'; DAMP |       | 6      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 7      | 6           | 17              | 89         | SS-3         | 2.50        | 2             | 6  | 16 | 25 | 51 | 35        | 17 | 18 | 19 | A-6b (11)          | 1200       |              |
|  |       | 8      | 6           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 868.9 | 7      | 12          | 57              | 100        | SS-4         | 2.50        | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-6b (V)           | -          |              |
|  |       | 8      | 27          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS



|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-009-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>875.7 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/28/19</u> END: <u>10/28/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.522048, -81.451352</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD    | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|----------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |                |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (14.0") & CONCRETE (7.5")  | 875.7 | 1      |                |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, MOIST            | 873.9 | 2      | 10             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 872.2 | 3      | 25<br>16       | 59              | 78         | SS-1         | -           | 42            | 15 | 22 | 13 | 8  | NP        | NP | NP | 10 | A-1-b (0)          | 1900       |              |
| DENSE, DARK GRAY AND BLACK, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, MOIST       | 870.7 | 4      | 14<br>15<br>11 | 38              | 56         | SS-2         | -           | 30            | 19 | 23 | 19 | 9  | NP        | NP | NP | 16 | A-2-4 (0)          | 4700       |              |
| MEDIUM STIFF, REDDISH BROWN, <b>SILT</b> , SOME CLAY, LITTLE SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST |       | 5      | 4              |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM STIFF, REDDISH BROWN, <b>SILT</b> , SOME CLAY, LITTLE SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST |       | 6      | 4              | 12              | 100        | SS-3         | 0.50        | 1             | 3  | 16 | 51 | 29 | 28        | 18 | 10 | 21 | A-4b (8)           | -          |              |
| @6.5'; REDDISH BROWN AND GRAYISH BROWN   | 867.7 | 7      | 2              | 7               | 100        | SS-4         | 0.50        | -             | -  | -  | -  | -  | -         | -  | -  | 21 | A-4b (V)           | -          |              |
|  |       | 8      | 2<br>3         |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    |                |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-010-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 873.5 (NAVD88) EOB: 8.0 ft. | PAGE: 1 OF 1               |
| START: 10/29/19 END: 10/29/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.521884, -81.449934      |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|---------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |         |           |
| ASPHALT (15.5") & CONCRETE (7.5")  | 873.5 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 871.6 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| VERY LOOSE, GRAYISH BROWN, GRAVEL WITH SAND AND SILT, LITTLE CLAY, MOIST         | 870.0 | 2      | 1       | 3               | 28      | SS-1      | -        | 27            | 18 | 22 | 20 | 13 | 20        | 16 | 4  | 18 | A-2-4 (0)       | 180     |           |
| VERY SOFT, BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL, WET                      | 868.5 | 3      | 0       | 1               | 28      | SS-2      | 0.00     | 12            | 6  | 38 | 23 | 21 | 21        | 14 | 7  | 19 | A-4a (2)        | 240     |           |
|  | 867.5 | 4      | 0       | 1               | 28      | SS-2      | 0.00     | 12            | 6  | 38 | 23 | 21 | 21        | 14 | 7  | 19 | A-4a (2)        | 240     |           |
| MEDIUM DENSE, REDDISH BROWN, FINE SAND, SOME GRAVEL, TRACE SILT, TRACE CLAY, WET | 865.5 | 5      | 3       | 13              | 89      | SS-3      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 18 | A-3 (V)         | -       |           |
|  | 865.5 | 6      | 4       | 13              | 89      | SS-3      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 18 | A-3 (V)         | -       |           |
|  | 865.5 | 7      | 3       | 17              | 83      | SS-4      | -        | 28            | 19 | 43 | 5  | 5  | NP        | NP | NP | 18 | A-3 (0)         | -       |           |
|  | 865.5 | 8      | 6       | 17              | 83      | SS-4      | -        | 28            | 19 | 43 | 5  | 5  | NP        | NP | NP | 18 | A-3 (0)         | -       |           |
|  | 865.5 | EOB    | 6       | 17              | 83      | SS-4      | -        | 28            | 19 | 43 | 5  | 5  | NP        | NP | NP | 18 | A-3 (0)         | -       |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-011-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 872.4 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/29/19 END: 10/29/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.521735, -81.448499      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (12.0") & CONCRETE (7.0")   | 872.4 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 870.8 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM STIFF, DARK GRAY, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, WET                          | 868.9 | 2      | 1           | 6               | 56         | SS-1         | 0.75        | 15            | 10 | 33 | 27 | 15 | 24        | 20 | 4  | 27 | A-4a (1)           | 210        |              |
|   |       | 3      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| LOOSE, DARK GRAY AND BLACK, COARSE AND FINE SAND, LITTLE SILT, LITTLE GRAVEL AND STONE FRAGMENTS, TRACE CLAY, WET | 867.4 | 4      | 1           | 9               | 67         | SS-2         | -           | 15            | 9  | 50 | 16 | 10 | NP        | NP | NP | 25 | A-3a (0)           | 120        |              |
|   |       | 5      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, FINE SAND, SOME GRAVEL, TRACE SILT, TRACE CLAY, MOIST @6.5'; LOOSE, WET                      |       | 6      | 5           | 16              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 17 | A-3 (V)            | -          |              |
|   |       | 7      | 6           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 864.4 | 8      | 2           | 10              | 100        | SS-4         | -           | 22            | 23 | 47 | 5  | 3  | NP        | NP | NP | 21 | A-3 (0)            | -          |              |
|   |       | EOB    | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 7 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-012-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 873.9 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/29/19 END: 10/29/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.521682, -81.447054      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.5") & CONCRETE (7.5")  | 873.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 872.0 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BLACK AND BROWN, <b>COARSE AND FINE SAND</b> , LITTLE CLAY, TRACE GRAVEL, TRACE SILT, MOIST<br>@3.5'; MEDIUM DENSE, BROWN, LITTLE SILT, TRACE CLAY, DAMP<br>@5.0'; LOOSE |       | 2      | 5           | 25              | 89         | SS-1         | -           | 9             | 11 | 57 | 8  | 15 | NP        | NP | NP | 13 | A-3a (0)           | 120        |              |
|  |       | 3      | 10          | 7               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 4      | 3           | 6               | 16         | 100          | SS-2        | -             | 4  | 10 | 64 | 15 | 7         | NP | NP | NP | 8                  | A-3a (0)   | 100          |
|  |       | 5      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 6      | 4           | 3               | 10         | 83           | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 11                 | A-3a (V)   | -            |
|  |       | 7      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; MOIST   | 865.9 | 8      | 3           | 7               | 67         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | -  | 13                 | A-3a (V)   | -            |
|  |       | EOB    | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-013-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>874.9 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/29/19</u> END: <u>10/29/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.521540, -81.445630</u>             |                              |

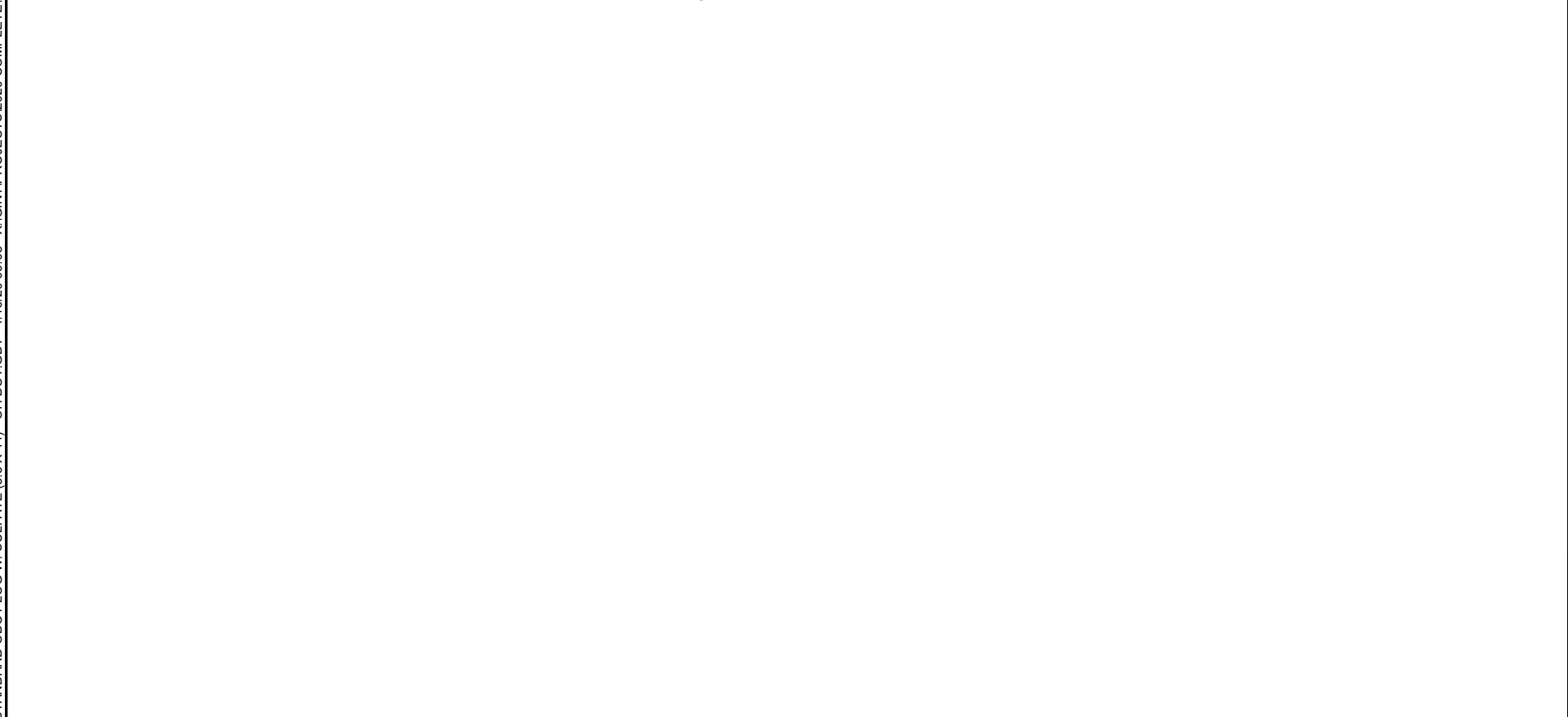
| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (13.0") & CONCRETE (7.5")  | 874.9 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN AND REDDISH BROWN, <b>SANDY SILT</b> ,<br>LITTLE CLAY, TRACE GRAVEL, DAMP                       | 873.2 | 2      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 871.4 | 3      | 4           | 12              | 78         | SS-1         | 1.50        | 5             | 9  | 43 | 27 | 16 | 18        | 15 | 3  | 13 | A-4a (2)           | 300        |              |
| LOOSE, REDDISH BROWN, <b>COARSE AND FINE SAND</b> ,<br>LITTLE SILT, LITTLE CLAY, DAMP<br>@5.0'; MEDIUM DENSE |       | 4      | 3           | 10              | 100        | SS-2         | -           | 0             | 8  | 64 | 17 | 11 | NP        | NP | NP | 9  | A-3a (0)           | 150        |              |
|  |       | 5      | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 6      | 4           | 12              | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-3a (V)           | -          |              |
|  |       | 7      | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 866.9 | 8      | 4           | 20              | 100        | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-3a (V)           | -          |              |
|  |       | EOB    | 10          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-014-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>875.3 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/29/19</u> END: <u>10/29/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.521579, -81.444188</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.5") & CONCRETE (6.5")   | 875.3 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN AND BLACK, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, MOIST | 873.5 | 2      | 9           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 871.8 | 3      | 8           | 17              | 89         | SS-1         | -           | 30            | 12 | 34 | 15 | 9  | NP        | NP | NP | 14 | A-2-4 (0)          | 200        |              |
| LOOSE, REDDISH BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP         |       | 4      | 2           | 6               | 22         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-3a (V)           | -          |              |
|   |       | 5      | 2           | 2               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 6      | 2           | 7               | 100        | SS-3         | -           | 1             | 10 | 69 | 13 | 7  | NP        | NP | NP | 7  | A-3a (0)           | <100       |              |
|   |       | 7      | 3           | 3               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5"; MEDIUM DENSE   | 867.3 | 7      | 3           | 12              | 100        | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 6  | A-3a (V)           | -          |              |
|   |       | 8      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |



NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-015-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>878.9 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/29/19</u> END: <u>10/29/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.521634, -81.442748</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (14.0") & CONCRETE (7.0")  | 878.9 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 877.1 | 2      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, REDDISH BROWN, <b>COARSE AND FINE SAND</b> , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP |       | 3      | 12          | 28              | 56         | SS-1         | -           | 2             | 10 | 65 | 16 | 7  | NP        | NP | NP | 7  | A-3a (0)           | <100       |              |
|  |       | 4      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @5.0'; LOOSE   |       | 5      | 6           | 13              | 100        | SS-2         | -           | 5             | 19 | 58 | 11 | 7  | NP        | NP | NP | 8  | A-3a (0)           | <100       |              |
|  |       | 6      | 2           | 3               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; MEDIUM DENSE, BROWN, SOME GRAVEL AND STONE FRAGMENTS  |       | 7      | 2           | 7               | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-3a (V)           | -          |              |
|  | 870.9 | 8      | 4           | 5               | 15         | SS-4         | -           | 26            | 21 | 34 | 12 | 7  | NP        | NP | NP | 8  | A-3a (0)           | -          |              |
|  |       | EOB    | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-016-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>883.6 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/29/19</u> END: <u>10/29/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.521821, -81.441338</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (14.5") & CONCRETE (8.0")  | 883.6 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, REDDISH BROWN, <b>COARSE AND FINE SAND</b> , LITTLE SILT, TRACE CLAY, DAMP<br>@3.5'; LOOSE<br>@5.0'; MOIST | 881.7 | 2      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 3      | 6           | 13              | 67         | SS-1         | -           | 0             | 9  | 61 | 20 | 10 | NP        | NP | NP | 9  | A-3a (0)           | <100       |              |
|  |       | 4      | 3           | 9               | 100        | SS-2         | -           | 0             | 8  | 64 | 18 | 10 | NP        | NP | NP | 8  | A-3a (0)           | 110        |              |
|  |       | 5      | 3           | 9               | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 16 | A-3a (V)           | -          |              |
|  | 877.1 | 6      | 3           | 9               | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 16 | A-3a (V)           | -          |              |
| LOOSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, MOIST                                  | 875.6 | 7      | 2           | 10              | 100        | SS-4         | -           | 22            | 15 | 34 | 18 | 11 | NP        | NP | NP | 14 | A-2-4 (0)          | -          |              |
|  |       | 8      | 3           | 10              | 100        | SS-4         | -           | 22            | 15 | 34 | 18 | 11 | NP        | NP | NP | 14 | A-2-4 (0)          | -          |              |
|  |       | EOB    | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS



|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-017-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 891.8 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/29/19 END: 10/29/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.522347, -81.440095      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (14.5") & CONCRETE (6.5")  | 891.8 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 890.0 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN, SANDY SILT, SOME GRAVEL AND<br>STONE FRAGMENTS, LITTLE CLAY, DAMP                | 889.1 | 2      | 3           | 15              | 67         | SS-1A        | 2.00        | 25            | 15 | 19 | 26 | 15 | 21        | 16 | 5  | 13 | A-4a (1)           | 430        |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND, LITTLE SILT, TRACE<br>CLAY, DAMP |       | 3      | 3           | 7               |            | SS-1B        | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-1-b (V)          | -          |              |
| @3.5'; BROWN AND BLACK, WITH SLAG AND ASPHALT<br>FRAGMENTS                                     |       | 4      | 7           | 4               | 12         | 56           | SS-2        | -             | 38 | 18 | 21 | 16 | 7         | NP | NP | NP | 14                 | A-1-b (0)  | 380          |
| @5.0'; LOOSE   |       | 5      | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; MEDIUM DENSE  |       | 6      | 2           | 2               | 6          | 28           | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  |    | 15                 | A-1-b (V)  | -            |
|  |       | 7      | 3           | 4               | 12         | 83           | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  |    | 18                 | A-1-b (V)  | -            |
|  | 883.8 | 8      | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\06097.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-018-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 900.5 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/29/19 END: 10/29/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.523021, -81.438934      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (22.0")  | 900.5 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 898.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN AND GRAYISH BROWN, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, MOIST | 897.0 | 2      | 6           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 3      | 9           | 23              | 61         | SS-1         | 2.00        | 17            | 15 | 20 | 30 | 18 | 22        | 17 | 5  | 16 | A-4a (3)           | 370        |              |
| LOOSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP @5.0'; MEDIUM DENSE     |       | 4      | 3           | 6               | 39         | SS-2         | -           | 42            | 16 | 15 | 16 | 11 | 27        | 17 | 10 | 12 | A-2-4 (0)          | 430        |              |
|  |       | 5      | 2           | 12              | 67         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-2-4 (V)          | -          |              |
|  |       | 6      | 4           | 12              | 67         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-2-4 (V)          | -          |              |
|  |       | 7      | 2           | 12              | 67         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |
|  | 892.5 | 8      | 3           | 12              | 67         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |
|  |       | EOB    | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-019-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 900.8 (NAVD88) EOB: 8.0 ft. | PAGE: 1 OF 1               |
| START: 10/29/19 END: 10/29/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.523695, -81.437805      |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm   | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|-----------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |           |           |
| ASPHALT (14.5") & CONCRETE (7.0")  | 900.8 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |           |
|  | 898.9 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |           |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, MOIST @3.5'; TRACE CLAY, DAMP |       | 2      | 6       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |           |
|  |       | 3      | 9       | 23              | 61      | SS-1      | -        | 38            | 15 | 17 | 19 | 11 | 19        | 16 | 3  | 12 | A-2-4 (0)       | 640       |           |
|  |       | 4      | 6       | 5               | 16      | 33        | SS-2     | -             | 43 | 15 | 18 | 15 | 9         | 23 | 16 | 7  | 10              | A-2-4 (0) | 570       |
|  | 894.3 | 5      | 6       | 7               | 23      | 39        | SS-3     | -             | -  | -  | -  | -  | -         | -  | -  | -  | 11              | A-2-4 (V) | -         |
|  |       | 6      | 7       | 9               |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |           |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP                       | 892.8 | 7      | 8       | 22              | 44      | SS-4      | -        | 52            | 16 | 13 | 12 | 7  | NP        | NP | NP | 8  | A-1-b (0)       | -         |           |
|  |       | 8      | 8       | 7               |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-020-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>893.2 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/30/19</u> END: <u>10/30/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.524438, -81.436744</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC        | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|-----------|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |           |                    |            |              |
| ASPHALT (12.5") & CONCRETE (7.0")  | 893.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  | 891.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
| DENSE, BROWN, GRAVEL AND STONE FRAGMENTS<br>WITH SAND, LITTLE SILT, TRACE CLAY, MOIST<br><br>@3.5'; MEDIUM DENSE<br><br>@5.0'; DENSE |       | 2      | 8           | 32              | 28         | SS-1         | -           | -             | -  | -  | -  | -  | -         | -  | 10 | A-1-b (V) | -                  |            |              |
|  |       | 3      | 14          | 8               |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  |       | 4      | 7           | 5               | 16         | 89           | SS-2        | -             | 38 | 21 | 16 | 16 | 9         | 21 | 17 | 4         | 12                 | A-1-b (0)  | 440          |
|  |       | 5      | 6           | 12              | 6          |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  |       | 6      | 14          | 10              | 35         | 50           | SS-3        | -             | 53 | 14 | 16 | 11 | 6         | NP | NP | NP        | 9                  | A-1-b (0)  | 350          |
|  |       | 7      | 14          | 10              | 6          |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  | 885.2 | 7      | 14          | 14              | 41         | 39           | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  | -         | 8                  | A-1-b (V)  | -            |
|  |       | 8      | 14          | 14              |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 7 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-021-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 885.1 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/30/19 END: 10/30/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.525103, -81.435603      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.0") & CONCRETE (8.0")   | 885.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 883.2 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| LOOSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, MOIST                   | 881.6 | 2      | 2           | 9               | 83         | SS-1         | -           | 33            | 16 | 17 | 21 | 13 | 21        | 16 | 5  | 10 | A-2-4 (0)          | 850        |              |
|   |       | 3      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, REDDISH BROWN, <b>SANDY SILT</b> , LITTLE CLAY, TRACE GRAVEL AND STONE FRAGMENTS, WET @5.0'; MOIST |       | 4      | 2           | 12              | 67         | SS-2         | 1.50        | 4             | 7  | 29 | 41 | 19 | 17        | 15 | 2  | 17 | A-4a (5)           | 390        |              |
|   |       | 5      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 878.6 | 6      | 4           | 12              | 67         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-4a (V)           | -          |              |
|   |       | 7      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| LOOSE, BROWN, <b>COARSE AND FINE SAND</b> , TRACE SILT, TRACE CLAY, TRACE GRAVEL, MOIST                   | 877.1 | 8      | 3           | 6               | 39         | SS-4         | -           | 1             | 22 | 61 | 8  | 8  | NP        | NP | NP | 10 | A-3a (0)           | -          |              |
|   |       | EOB    | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-022-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>880.2 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/30/19</u> END: <u>10/30/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.525950, -81.434704</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (19.0")  | 880.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 878.6 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, GRAYISH BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, DAMP |       | 2      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 876.7 | 3      | 5           | 15              | 89         | SS-1         | -           | 34            | 14 | 18 | 24 | 10 | 21        | 18 | 3  | 14 | A-2-4 (0)          | 260        |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, SILT, AND CLAY, DAMP  |       | 4      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 875.2 | 5      | 4           | 13              | 67         | SS-2         | -           | 36            | 29 | 9  | 12 | 14 | 41        | 14 | 27 | 12 | A-2-7 (2)          | 970        |              |
| LOOSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, DAMP    |       | 6      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 7      | 4           | 10              | 78         | SS-3         | -           | 16            | 34 | 27 | 13 | 10 | 20        | 13 | 7  | 11 | A-2-4 (0)          | -          |              |
|  | 872.2 | 8      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    | 3           | 10              | 44         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET:                      | EXPLORATION ID<br>B-023-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN:              | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 880.5 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/30/19 END: 10/30/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.526858, -81.433892      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC       | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----------|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |          |                    |            |              |
| ASPHALT (14.0") & CONCRETE (10.0")  | 880.5 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   | 878.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| SOFT, BROWN, SANDY SILT, LITTLE CLAY, TRACE GRAVEL AND STONE FRAGMENTS, WET |       | 2      | 0           | 0               | 11         | SS-1         | 0.50        | -             | -  | -  | -  | -  | -         | -  | 24 | A-4a (V) | -                  |            |              |
| @3.5'; REDDISH BROWN, MOIST   |       | 3      | 0           | 1               | 78         | SS-2         | 0.50        | 5             | 7  | 26 | 42 | 20 | 24        | 17 | 7  | 20       | A-4a (5)           | 300        |              |
| @5.0'; MEDIUM STIFF, WET  |       | 4      | 0           | 1               | 78         | SS-2         | 0.50        | 5             | 7  | 26 | 42 | 20 | 24        | 17 | 7  | 20       | A-4a (5)           | 300        |              |
|   |       | 5      | 1           | 1               | 4          | 39           | SS-3        | 0.75          | -  | -  | -  | -  | -         | -  | 22 | A-4a (V) | -                  |            |              |
| @6.5'; STIFF, BROWN AND BLACK, LITTLE GRAVEL AND STONE FRAGMENTS            |       | 6      | 2           | 1               | 4          | 39           | SS-3        | 0.75          | -  | -  | -  | -  | -         | -  | 22 | A-4a (V) | -                  |            |              |
|   |       | 7      | 7           | 1               | 7          | 15           | SS-4        | 1.50          | 16 | 12 | 23 | 36 | 13        | 22 | 19 | 3        | 19                 | A-4a (3)   | 210          |
|   | 872.5 | 7      | 7           | 1               | 7          | 15           | SS-4        | 1.50          | 16 | 12 | 23 | 36 | 13        | 22 | 19 | 3        | 19                 | A-4a (3)   | 210          |
|   |       | 8      | 7           | 3               |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-024-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 879.9 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 10/30/19 END: 10/30/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.527829, -81.433238      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.5") & CONCRETE (9.0")   | 879.9 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BLACK, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, WITH SLAG, WET @3.5'; WITH WOOD          | 877.9 | 2      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 3      | 5           | 17              | 39         | SS-1         | -           | 34            | 14 | 23 | 21 | 8  | NP        | NP | NP | 21 | A-2-4 (0)          | 570        |              |
| @5.0'; LOOSE, BLACK AND GRAY  |       | 4      | 10          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 5      | 8           | 23              | 67         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 24 | A-2-4 (V)          | -          |              |
|   | 873.4 | 6      | 2           | 6               | 67         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 30 | A-2-4 (V)          | -          |              |
| LOOSE, GRAY, <b>COARSE AND FINE SAND</b> , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, SLIGHTLY ORGANIC (LOI = 2.7%), WET | 871.9 | 7      | 4           | 6               | 78         | SS-4         | -           | 20            | 4  | 50 | 17 | 9  | NP        | NP | NP | 24 | A-3a (0)           | 250        |              |
|   |       | 8      | 2           | 6               | 78         | SS-4         | -           | 20            | 4  | 50 | 17 | 9  | NP        | NP | NP | 24 | A-3a (0)           | 250        |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 10 LB. BENTONITE CHIPS



|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-025-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>879.5 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>10/30/19</u> END: <u>10/30/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.528864, -81.432844</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC        | ODOT<br>CLASS (GI) | SO <sub>4</sub><br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|-----------|--------------------|------------------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |           |                    |                        |              |
| ASPHALT (22.0")   | 879.5 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |
|   | 877.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |
| LOOSE, BLACK AND GRAY, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, WET @3.5'; VERY LOOSE |       | 2      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |
|   |       | 3      | 4           | 10              | 17         | SS-1         | -           | -             | -  | -  | -  | -  | -         | -  | 17 | A-1-b (V) | -                  |                        |              |
|   | 874.5 | 4      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |
|   |       | 5      | 1           |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |
| MEDIUM STIFF, GRAY AND BROWN MOTTLED, <b>SILT AND CLAY</b> , SOME SAND, TRACE GRAVEL, MOIST @6.5'; WET              |       | 6      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |
|   |       | 7      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |
|   | 871.5 | 8      | 1           | 6               | 83         | SS-3         | 0.50        | 3             | 4  | 17 | 31 | 45 | 35        | 20 | 15 | 27        | A-6a (10)          | 340                    |              |
|   |       |        | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |
|   |       |        | 1           | 6               | 94         | SS-4         | 0.50        | -             | -  | -  | -  | -  | -         | -  | -  | 34        | A-6a (V)           | -                      |              |
|   |       | EOB    | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |                        |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 7 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-026-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>879.5 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/4/19</u> END: <u>11/4/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.531011, -81.432373</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (16.25") & CONCRETE (7.75")  | 879.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 877.5 | 2      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN, <b>SILT AND CLAY</b> , SOME SAND,<br>LITTLE STONE FRAGMENTS, DAMP | 876.0 | 3      | 5           | 15              | 56         | SS-1         | 3.00        | 13            | 8  | 14 | 35 | 30 | 33        | 19 | 14 | 18 | A-6a (8)           | 760        |              |
|  |       | 4      | 5           | 7               | 19         | SS-2         | 3.00        | 20            | 10 | 22 | 27 | 21 | 26        | 18 | 8  | 14 | A-4a (3)           | 610        |              |
| VERY STIFF, BROWN, <b>SANDY SILT</b> , SOME CLAY,<br>LITTLE STONE FRAGMENTS, DAMP    |       | 5      | 6           | 6               | 19         | SS-3         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 15 | A-4a (V)           | -          |              |
|  |       | 6      | 6           | 7               | 19         | SS-3         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 15 | A-4a (V)           | -          |              |
|  |       | 7      | 5           | 6               | 19         | SS-4         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 15 | A-4a (V)           | -          |              |
|  | 871.5 | 8      | 6           | 7               | 19         | SS-4         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 15 | A-4a (V)           | -          |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ



NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 7 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-027-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>878.8 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/4/19</u> END: <u>11/4/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.532100, -81.432150</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (13.5") & CONCRETE (8.5")  | 878.8 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 876.9 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| LOOSE, GRAY, <b>SANDY SILT</b> , LITTLE STONE<br>FRAGMENTS, LITTLE CLAY, WET | 875.3 | 2      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 3      | 2           | 6               | 78         | SS-1         | -           | 20            | 9  | 16 | 36 | 19 | NP        | NP | NP | 30 | A-4a (4)           | 180        |              |
| SOFT, GRAY, <b>SILT AND CLAY</b> , SOME SAND, LITTLE<br>STONE FRAGMENTS, WET |       | 4      | 0           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @5.0'; STIFF, BROWN AND GRAY MOTTLED, MOIST                                  |       | 5      | 2           | 3               | 89         | SS-2         | 0.50        | 20            | 6  | 19 | 32 | 23 | 29        | 18 | 11 | 29 | A-6a (4)           | 120        |              |
| @6.5'; "AND" SAND, TRACE STONE FRAGMENTS                                     |       | 6      | 1           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 7      | 3           | 9               | 100        | SS-3         | 1.50        | -             | -  | -  | -  | -  | -         | -  | -  | 23 | A-6a (V)           | -          |              |
|  | 870.8 | 8      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    | 4           | 10              | 89         | SS-4         | 1.50        | 4             | 5  | 34 | 33 | 24 | 28        | 15 | 13 | 21 | A-6a (6)           | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:08 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                             |  |                          |  |                              |
|-----------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-028-0-19 |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____      | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 880.9 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 11/4/19 END: 11/4/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.535230, -81.430995      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS  | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|---------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|--------------------|------------|--------------|
|   |       |         |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |                    |            |              |
| ASPHALT (16.25") & CONCRETE (8.0")  | 880.9 | 1       |             |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
| LOOSE, BROWN, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, DAMP   | 878.9 | 2       | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
|   |       | 3       | 2           | 7               | 28         | SS-1         | -           | 36            | 5  | 24 | 17 | 18 | 22        | 15 | 7  | 12                 | A-2-4 (0)  | 690          |
|   |       | 4       | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
|   | 875.9 | 5       | 2           | 6               | 11         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 13                 | A-2-4 (V)  | -            |
| MEDIUM STIFF, GRAYISH BROWN, <b>SILT AND CLAY</b> , SOME SAND, TRACE STONE FRAGMENTS, MOIST                             | 874.4 | 6       | 1           | 6               | 39         | SS-3         | 1.00        | 6             | 9  | 22 | 30 | 33 | 31        | 20 | 11 | 24                 | A-6a (6)   | 630          |
|   |       | 7       | 0           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
| SOFT, GRAYISH BROWN, <b>CLAY</b> , "AND" SILT, LITTLE SAND, TRACE STONE FRAGMENTS, SLIGHTLY ORGANIC (LOI = 2.8%), MOIST | 872.9 | W 873.9 | 0           | 3               | 78         | SS-4         | 0.25        | 7             | 3  | 16 | 41 | 33 | 46        | 28 | 18 | 41                 | A-7-6 (12) | 390          |
|   |       | EOB     | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                             |  |                          |  |                              |
|-----------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET:                      | EXPLORATION ID<br>B-029-0-19 |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN:            | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 887.4 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 11/4/19 END: 11/4/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.536284, -81.430709      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC       | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----------|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |          |                    |            |              |
| ASPHALT (15.5") & CONCRETE (8.5")  | 887.4 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|  | 885.4 | 2      |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| STIFF, BROWN AND GRAY, <b>SILT AND CLAY</b> , SOME<br>STONE FRAGMENTS, LITTLE SAND, WITH COAL<br>FRAGMENTS, DAMP<br>@3.5'; MEDIUM STIFF, MOIST |       | 3      | 1           | 7               | 22         | SS-1         | 2.00        | -             | -  | -  | -  | -  | -         | -  | 18 | A-6a (V) | -                  |            |              |
|  |       | 4      | 1           | 6               | 83         | SS-2         | 1.00        | 20            | 5  | 12 | 30 | 33 | 36        | 21 | 15 | 28       | A-6a (8)           | 260        |              |
|  |       | 5      | 3           | 12              | 89         | SS-3         | 2.00        | 10            | 5  | 13 | 34 | 38 | 34        | 21 | 13 | 22       | A-6a (9)           | 360        |              |
| @5.0'; STIFF, REDDISH BROWN, TRACE STONE<br>FRAGMENTS  |       | 6      | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|  |       | 7      | 3           | 4               | 13         | 100          | SS-4        | 2.00          | -  | -  | -  | -  | -         | -  | -  | 22       | A-6a (V)           | -          |              |
|  | 879.4 | 8      | 4           | 5               |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-030-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>888.5 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/4/19</u> END: <u>11/4/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.539515, -81.430164</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.5") & CONCRETE (8.0")   | 888.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 886.5 | 2      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN WITH BLACK, <b>SANDY SILT</b> ,<br>SOME CLAY, LITTLE STONE FRAGMENTS, MOIST | 885.0 | 3      | 4           | 9               | 44         | SS-1         | 3.50        | 12            | 5  | 13 | 38 | 32 | 29        | 19 | 10 | 20 | A-4a (7)           | 790        |              |
| STIFF, BROWN WITH BLACK, <b>SILT AND CLAY</b> , LITTLE<br>SAND, TRACE STONE FRAGMENTS, MOIST  |       | 4      | 2           | 9               | 44         | SS-2         | 1.50        | 6             | 4  | 12 | 45 | 33 | 34        | 21 | 13 | 21 | A-6a (9)           | 540        |              |
| @5.0'; DAMP   |       | 5      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; VERY STIFF   |       | 6      | 4           | 13              | 67         | SS-3         | 1.50        | -             | -  | -  | -  | -  | -         | -  | -  | 18 | A-6a (V)           | -          |              |
|   |       | 7      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 880.5 | 8      | 6           | 19              | 83         | SS-4         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 17 | A-6a (V)           | -          |              |
|   |       | EOB    | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-031-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>888.1 (NAVD88)</u> EOB: <u>6.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/4/19</u> END: <u>11/4/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.540637, -81.429983</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (17.5") & CONCRETE (6.5")   | 888.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 886.1 | 2      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN, <b>SANDY SILT</b> , SOME STONE<br>FRAGMENTS, LITTLE CLAY, DAMP     |       | 3      | 9           | 26              | 56         | SS-1         | 3.00        | 35            | 6  | 22 | 21 | 16 | 24        | 16 | 8  | 14 | A-4a (0)           | 590        |              |
| @3.5'; SOME CLAY, TRACE STONE FRAGMENTS,<br>MOIST                                     | 884.2 | 4      | 10          | 57              | 67         | SS-2A        | 3.00        | 5             | 8  | 40 | 23 | 24 | 19        | 12 | 7  | 12 | A-4a (2)           | 710        |              |
|   |       | 5      | 22          |                 |            | SS-2B        | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | Rock (V)           | -          |              |
| <b>SANDSTONE</b> , YELLOWISH BROWN, MODERATELY<br>WEATHERED, VERY WEAK, FINE GRAINED. |       | 6      | 19          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 881.6 | 6      | 21          | 115             | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 7  | Rock (V)           | -          |              |
|   |       | EOB    | 58          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-032-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>885.2 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/4/19</u> END: <u>11/4/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.543697, -81.428602</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (14.5") & CONCRETE (8.5")   | 885.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 883.3 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN AND GRAY MOTTLED, <b>SILTY CLAY</b> ,<br>LITTLE SAND, TRACE STONE FRAGMENTS, MOIST                             |       | 2      | 2           | 7               | 39         | SS-1         | 2.00        | 4             | 4  | 7  | 29 | 56 | 38        | 21 | 17 | 24 | A-6b (11)          | 620        |              |
|   | 881.7 | 3      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN AND GRAY MOTTLED, <b>SILT AND<br/>CLAY</b> , SOME SAND, TRACE STONE FRAGMENTS,<br>MOIST<br>@5.0'; MEDIUM STIFF |       | 4      | 1           | 9               | 56         | SS-2         | 1.50        | 2             | 5  | 28 | 25 | 40 | 34        | 21 | 13 | 28 | A-6a (7)           | 350        |              |
|   |       | 5      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; STIFF, BROWN WITH GRAY   |       | 6      | 2           | 6               | 78         | SS-3         | 1.00        | -             | -  | -  | -  | -  | -         | -  | -  | 24 | A-6a (V)           | -          |              |
|   |       | 7      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 877.2 | 7      | 4           | 12              | 100        | SS-4         | 2.00        | -             | -  | -  | -  | -  | -         | -  | -  | 25 | A-6a (V)           | -          |              |
|   |       | 8      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS



|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / LEWIS</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-033-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>884.9 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/5/19</u> END: <u>11/5/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.544717, -81.428038</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (12.0") & CONCRETE (8.0")  | 884.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 883.2 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, GRAYISH BROWN, <b>SILTY CLAY</b> , LITTLE SAND, TRACE STONE FRAGMENTS, MOIST |       | 2      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 3      | 4           | 13              | 67         | SS-1         | 2.50        | 3             | 4  | 7  | 36 | 50 | 40        | 21 | 19 | 23 | A-6b (12)          | 360        |              |
| @3.5'; BROWN AND GRAY MOTTLED  |       | 4      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 5      | 3           | 12              | 83         | SS-2         | 2.50        | 6             | 4  | 8  | 34 | 48 | 40        | 24 | 16 | 25 | A-6b (10)          | 550        |              |
|  |       | 6      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 7      | 4           | 12              | 78         | SS-3         | 2.50        | -             | -  | -  | -  | -  | -         | -  | -  | 25 | A-6b (V)           | -          |              |
|  |       | 8      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 876.9 | EOB    | 4           | 15              | 100        | SS-4         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 22 | A-6b (V)           | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                             |  |                          |  |                            |
|-----------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-034-0-19 |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____      | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 883.3 (NAVD88) EOB: 8.0 ft. | PAGE: 1 OF 1               |
| START: 11/5/19 END: 11/5/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.547589, -81.426013      |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|---------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |         |           |
| ASPHALT (13.5") & CONCRETE (8.0")  | 883.3 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 881.5 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| MEDIUM STIFF, GRAY, SANDY SILT, SOME CLAY, SOME STONE FRAGMENTS, DAMP                        |       | 2      | 3       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 879.8 | 3      | 2       | 7               | 56      | SS-1      | 1.00     | 22            | 5  | 8  | 43 | 22 | 28        | 19 | 9  | 17 | A-4a (6)        | 200     |           |
| STIFF, GRAY, SILT AND CLAY, SOME SAND, LITTLE STONE FRAGMENTS, MOIST                         |       | 4      | 2       | 9               | 89      | SS-2      | 1.00     | 14            | 3  | 20 | 34 | 29 | 30        | 18 | 12 | 22 | A-6a (6)        | 160     |           |
| @5.0'; GRAY TO BROWN   |       | 5      | 3       | 3               |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 876.8 | 6      | 5       | 16              | 78      | SS-3      | 1.50     | -             | -  | -  | -  | -  | -         | -  | -  | 21 | A-6a (V)        | -       |           |
| VERY DENSE, BROWN AND YELLOWISH BROWN, STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP | 875.3 | 7      | 12      | 55              | 100     | SS-4      | -        | 21            | 3  | 42 | 20 | 14 | NP        | NP | NP | 12 | A-2-4 (0)       | -       |           |
|  |       | 8      | 18      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  |       | EOB    | 20      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|                             |  |                          |  |                |
|-----------------------------|--|--------------------------|--|----------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / LEWIS | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET:                      | EXPLORATION ID |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        | B-035-0-19     |
| PID: 100603 SFN:            | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 886.4 (NAVD88) EOB: 8.0 ft. | PAGE           |
| START: 11/5/19 END: 11/5/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.548531, -81.425260      | 1 OF 1         |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (13.5") & CONCRETE (8.0")   | 886.4 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM STIFF, GRAY AND BROWN MOTTLED,<br><b>SANDY SILT</b> , SOME CLAY, TRACE STONE<br>FRAGMENTS, WITH COAL FRAGMENTS, MOIST<br>@3.5'; STIFF, SOME STONE FRAGMENTS, DAMP<br><br>@5.0'; VERY STIFF | 884.6 | 2      | 2           | 6               | 44         | SS-1         | 1.00        | 5             | 8  | 19 | 42 | 26 | 26        | 18 | 8  | 19 | A-4a (7)           | 280        |              |
|   |       | 3      | 1           | 2               | 15         | SS-2         | 2.00        | 26            | 6  | 17 | 31 | 20 | 25        | 18 | 7  | 16 | A-4a (3)           | 330        |              |
|   |       | 4      | 8           | 6               | 20         | SS-3         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 14 | A-4a (V)           | -          |              |
|   |       | 5      | 7           | 6               | 20         | SS-3         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 14 | A-4a (V)           | -          |              |
|   |       | 6      | 8           | 6               | 20         | SS-3         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 14 | A-4a (V)           | -          |              |
|   |       | 7      | 8           | 6               | 20         | SS-3         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 14 | A-4a (V)           | -          |              |
|   | 878.4 | 8      | 12          | 49              | 89         | SS-4         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-4a (V)           | -          |              |
|   |       | EOB    | 22          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-036-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>895.1 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/5/19</u> END: <u>11/5/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.551223, -81.422800</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (16.25") & CONCRETE (7.75")  | 895.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 893.1 | 2      | 1           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN, SILT AND CLAY, LITTLE SAND,<br>TRACE GRAVEL AND STONE FRAGMENTS, MOIST | 891.6 | 3      | 3           | 10              | 56         | SS-1         | 2.00        | 7             | 8  | 12 | 39 | 34 | 30        | 19 | 11 | 21 | A-6a (8)           | 1100       |              |
|  |       | 4      | 1           | 6               | 50         | SS-2         | 2.00        | 1             | 11 | 16 | 37 | 35 | 29        | 20 | 9  | 21 | A-4a (7)           | 480        |              |
| STIFF, BROWN, SANDY SILT, SOME CLAY, TRACE<br>GRAVEL AND STONE FRAGMENTS, MOIST      |       | 5      | 2           | 3               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 6      | 4           | 12              | 50         | SS-3         | 2.00        | -             | -  | -  | -  | -  | -         | -  | -  | 22 | A-4a (V)           | -          |              |
|  |       | 7      | 1           | 3               | 9          | 78           | SS-4        | 2.00          | -  | -  | -  | -  | -         | -  | -  | 19 | A-4a (V)           | -          |              |
|  | 887.1 | 8      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                             |  |                          |  |                              |
|-----------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / LEWIS | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-037-0-19 |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____      | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 892.0 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 11/5/19 END: 11/5/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.552189, -81.422092      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.5") & CONCRETE (7.0")  | 892.0 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 890.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN AND GRAY, <b>SANDY SILT</b> , SOME<br>CLAY, TRACE GRAVEL AND STONE FRAGMENTS,<br>DAMP<br>@3.5'; VERY STIFF, MODERATELY ORGANIC (LOI =<br>5.6%)<br>@5.0'; STIFF, MOIST<br>@6.5'; NO ORGANICS |       | 2      | 3           | 15              | 50         | SS-1         | 1.50        | 4             | 9  | 14 | 43 | 30 | 28        | 20 | 8  | 18 | A-4a (8)           | 460        |              |
|  |       | 3      | 4           | 6               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 4      | 4           | 6               | 17         | 100          | SS-2        | 2.00          | 14 | 9  | 12 | 38 | 27        | 31 | 23 | 8  | 16                 | A-4a (6)   | 310          |
|  |       | 5      | 2           | 6               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 6      | 3           | 4               | 10         | 100          | SS-3        | 2.00          | -  | -  | -  | -  | -         | -  | -  | -  | 26                 | A-4a (V)   | -            |
|  |       | 7      | 2           | 3               | 12         | 67           | SS-4        | 2.00          | -  | -  | -  | -  | -         | -  | -  | -  | 19                 | A-4a (V)   | -            |
|  | 884.0 | 8      | 3           | 5               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                             |  |                          |  |                |
|-----------------------------|--|--------------------------|--|----------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET:                      | EXPLORATION ID |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        | B-038-0-19     |
| PID: 100603 SFN:            | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 892.9 (NAVD88) EOB: 8.5 ft. | PAGE           |
| START: 11/5/19 END: 11/5/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.554498, -81.419142      | 1 OF 1         |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (15.5") & CONCRETE (10.0")   | 892.9 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 890.8 | 2      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, GRAY WITH BROWN, SILT AND CLAY,<br>SOME SAND, TRACE GRAVEL AND STONE<br>FRAGMENTS, DAMP TO MOIST<br>@4.0'; BROWN MOTTLED WITH GRAY |       | 3      | 4           | 15              | 89         | SS-1         | 3.00        | 5             | 8  | 13 | 38 | 36 | 34        | 22 | 12 | 20 | A-6a (9)           | 320        |              |
|  |       | 4      | 3           | 4               | 13         | 100          | SS-2        | 2.50          | 2  | 7  | 14 | 42 | 35        | 34 | 21 | 13 | 20                 | A-6a (9)   | 280          |
|  |       | 5      | 3           | 4               | 13         | 100          | SS-2        | 2.50          | 2  | 7  | 14 | 42 | 35        | 34 | 21 | 13 | 20                 | A-6a (9)   | 280          |
|  |       | 6      | 3           | 5               | 15         | 94           | SS-3        | 2.50          | -  | -  | -  | -  | -         | -  | -  | 22 | A-6a (V)           | -          |              |
| @7.0'; WITH COAL FRAGMENTS   |       | 7      | 5           | 5               | 15         | 94           | SS-3        | 2.50          | -  | -  | -  | -  | -         | -  | -  | 22 | A-6a (V)           | -          |              |
|  | 884.4 | 8      | 6           | 7               | 19         | 100          | SS-4        | 2.50          | -  | -  | -  | -  | -         | -  | -  | 19 | A-6a (V)           | -          |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 7 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / LEWIS</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-039-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>909.6 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/5/19</u> END: <u>11/5/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.555919, -81.416918</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (24.0")  | 909.6 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| LOOSE, BLACK, <b>GRAVEL</b> , LITTLE SAND, TRACE SILT, MOIST                   | 907.6 | 2      | 3           | 6               | 28         | SS-1         | -           | 84            | 13 | 2  | 1  | 0  | NP        | NP | NP | 10 | A-1-a (0)          | 170        |              |
| VERY SOFT, GRAYISH BROWN, <b>SILT AND CLAY</b> , SOME SAND, TRACE GRAVEL, DAMP | 906.1 | 3      | 0           | 1               | 17         | SS-2         | 0.25        | -             | -  | -  | -  | -  | -         | -  | -  | 15 | A-6a (V)           | -          |              |
| @5.0'; STIFF   |       | 4      | 1           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; VERY STIFF  |       | 5      | 2           | 7               | 44         | SS-3         | 2.00        | 8             | 7  | 14 | 42 | 29 | 31        | 19 | 12 | 17 | A-6a (8)           | 510        |              |
|  |       | 6      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 7      | 8           | 23              | 50         | SS-4         | 2.50        | -             | -  | -  | -  | -  | -         | -  | -  | 16 | A-6a (V)           | -          |              |
|  | 901.6 | 8      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                             |  |                          |  |                            |
|-----------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-040-0-19 |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____      | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 927.6 (NAVD88) EOB: 7.0 ft. | PAGE: 1 OF 1               |
| START: 11/6/19 END: 11/6/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.557407, -81.414771      |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|---------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |         |           |
| ASPHALT (12.0") & CONCRETE (9.0")  | 927.6 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 925.9 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| VERY STIFF, BROWN AND GRAY MOTTLED, SANDY SILT, SOME STONE FRAGMENTS, LITTLE CLAY, DAMP    | 924.1 | 2      | 7       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 924.1 | 3      | 6       | 17              | 67      | SS-1      | 2.50     | 26            | 9  | 13 | 34 | 18 | 28        | 19 | 9  | 10 | A-4a (3)        | 240     |           |
| VERY STIFF, BROWN AND GRAY MOTTLED, SILT AND CLAY, SOME STONE FRAGMENTS, LITTLE SAND, DAMP | 923.1 | 4      | 4       | 49              | 89      | SS-2A     | 3.00     | 33            | 7  | 8  | 29 | 23 | 33        | 18 | 15 | 12 | A-6a (5)        | 340     |           |
|  | 923.1 | 5      | 5       | 29              |         | SS-2B     | -        | -             | -  | -  | -  | -  | -         | -  | -  | 8  | Rock (V)        | -       |           |
|  | 923.1 | 6      | 60/3"   | -               | 100     | SS-3      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 4  | Rock (V)        | -       |           |
| SHALE, DARK GRAY, MODERATELY WEATHERED, VERY WEAK, LAMINATED. @5.0'; GRAY.                 | 920.6 | 7      | 46      | -               | 100     | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 6  | Rock (V)        | -       |           |
|  | 920.6 | EOB    |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS



|                             |  |                          |  |                |
|-----------------------------|--|--------------------------|--|----------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / LEWIS | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET:                      | EXPLORATION ID |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        | B-041-0-19     |
| PID: 100603 SFN:            | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 936.3 (NAVD88) EOB: 8.0 ft. | PAGE           |
| START: 11/6/19 END: 11/6/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.558860, -81.412686      | 1 OF 1         |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC       | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----------|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |          |                    |            |              |
| ASPHALT (12.0") & CONCRETE (9.5")  | 936.3 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| STIFF, BROWN AND GRAY, SILT AND CLAY, SOME<br>STONE FRAGMENTS, LITTLE SAND, DAMP   | 934.6 | 2      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| @3.5'; HARD, WITH COAL FRAGMENTS   |       | 3      | 7           | 19              | 33         | SS-1         | 1.75        | -             | -  | -  | -  | -  | -         | -  | 16 | A-6a (V) | -                  |            |              |
|  |       | 4      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|  | 931.3 | 5      | 7           | 20              | 78         | SS-2         | 4.50        | 21            | 7  | 12 | 39 | 21 | 31        | 20 | 11 | 12       | A-6a (5)           | 230        |              |
| HARD, BROWN AND GRAY, SILT, SOME CLAY,<br>LITTLE SAND, TRACE STONE FRAGMENTS, DAMP |       | 6      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|  |       | 7      | 5           | 16              | 56         | SS-3         | 4.50        | 5             | 4  | 12 | 51 | 28 | 30        | 20 | 10 | 12       | A-4b (8)           | 230        |              |
|  |       | 8      | 6           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|  | 928.3 | EOB    | 10          | 41              | 89         | SS-4         | 4.50        | -             | -  | -  | -  | -  | -         | -  | 13 | A-4b (V) | -                  |            |              |

NOTE: ENCOUNTERED A BOULDER AT 3 FT. MOVED SOUTH 1 FT AND REDRILLED.

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

|                             |  |                          |  |                              |
|-----------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-042-0-19 |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____      | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 938.2 (NAVD88) EOB: 7.0 ft. | PAGE<br>1 OF 1               |
| START: 11/6/19 END: 11/6/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.559679, -81.411614      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (11.0") & CONCRETE (9.0")   | 938.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 936.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN AND GRAY, SANDY SILT, SOME CLAY, LITTLE STONE FRAGMENTS, DAMP | 935.7 | 2      | 6           | 10              | 83         | 78           | SS-1A       | -             | 15 | 7  | 14 | 40 | 24        | 26 | 17 | 9  | 12                 | A-4a (6)   | 320          |
| SHALE, DARK GRAY, SLIGHTLY TO MODERATELY WEATHERED, WEAK, LAMINATED.            |       | 3      | 28          | 47              |            |              | SS-1B       | -             | -  | -  | -  | -  | -         | -  | -  | -  | 9                  | Rock (V)   | -            |
|   | 933.2 | 4      | 28          | 50              | -          | 100          | SS-2        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 10                 | Rock (V)   | -            |
| COAL, BLACK, SLIGHTLY WEATHERED.  |       | 5      | 38          | 50              | -          | 100          | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 9                  | Rock (V)   | -            |
|   | 931.7 | 6      | 38          | 50              | -          | 100          | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 9                  | Rock (V)   | -            |
| SHALE, GRAY, SLIGHTLY WEATHERED, VERY WEAK TO WEAK, LAMINATED.                  | 931.2 | 7      | 58          |                 | -          | 100          | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 6                  | Rock (V)   | -            |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\TE\000697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|                             |  |                          |  |                              |
|-----------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-043-0-19 |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____      | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 928.7 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 11/6/19 END: 11/6/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.561322, -81.409763      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (10.5") & CONCRETE (9.0")  | 928.7 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND AND SILT, LITTLE CLAY,<br>DAMP                          | 927.1 | 1      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 2      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 925.2 | 3      | 9           | 20              | 67         | SS-1         | -           | 34            | 16 | 21 | 18 | 11 | 22        | 15 | 7  | 12 | A-2-4 (0)          | 800        |              |
|  |       | 4      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 5      | 5           | 15              | 39         | SS-2         | 2.00        | 10            | 7  | 11 | 41 | 31 | 34        | 20 | 14 | 18 | A-6a (9)           | 320        |              |
| STIFF, BROWN AND GRAY, SILT AND CLAY, LITTLE<br>SAND, TRACE GRAVEL AND STONE FRAGMENTS,<br>DAMP<br>@5.0'; VERY STIFF |       | 6      | 6           | 17              | 50         | SS-3         | 2.00        | -             | -  | -  | -  | -  | -         | -  | -  | 16 | A-6a (V)           | -          |              |
|  |       | 7      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 920.7 | 8      | 3           | 10              | 56         | SS-4         | 4.00        | -             | -  | -  | -  | -  | -         | -  | -  | 15 | A-6a (V)           | -          |              |
|  |       | EOB    | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-044-0-19 |
| TYPE: <u>ROADWAY</u>                      | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____             | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>905.6 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/6/19</u> END: <u>11/6/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.563122, -81.408176</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC       | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----------|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |          |                    |            |              |
| ASPHALT (14.0") & CONCRETE (9.0")   | 905.6 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   | 903.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| HARD, BROWN, <b>SANDY SILT</b> , SOME GRAVEL AND<br>STONE FRAGMENTS, LITTLE CLAY, DAMP<br><br>@3.5'; VERY STIFF |       | 2      | 7           | 30              | 39         | SS-1         | 4.5+        | -             | -  | -  | -  | -  | -         | -  | 8  | A-4a (V) | -                  |            |              |
|   |       | 3      | 12          | 19              | 100        | SS-2         | 2.50        | 21            | 5  | 34 | 21 | 19 | 19        | 14 | 5  | 13       | A-4a (1)           | 600        |              |
| @5.0'; SOME CLAY, LITTLE GRAVEL AND STONE<br>FRAGMENTS<br><br>@6.5'; MOIST                                      |       | 4      | 8           | 13              | 78         | SS-3         | 2.50        | 19            | 6  | 29 | 25 | 21 | 22        | 16 | 6  | 15       | A-4a (2)           | 370        |              |
|   |       | 5      | 6           | 15              | 100        | SS-4         | 2.25        | -             | -  | -  | -  | -  | -         | -  | -  | 18       | A-4a (V)           | -          |              |
|   | 897.6 | 6      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   |       | 7      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   |       | 8      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                             |  |                          |  |                              |
|-----------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74      | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-045-0-19 |
| TYPE: ROADWAY               | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____      | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 901.9 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 11/6/19 END: 11/6/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.565118, -81.406849      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |                    |            |              |
| ASPHALT (10.25") & CONCRETE (9.25")   | 901.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
|   | 900.3 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
| VERY STIFF, BROWN AND GRAY, SANDY SILT, SOME CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, MOIST |       | 2      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
| @3.5'; HARD, MODERATELY ORGANIC (LOI = 4.2%), DAMP  |       | 3      | 5           | 15              | 67         | SS-1         | 3.75        | 16            | 7  | 26 | 28 | 23 | 24        | 16 | 8  | 16                 | A-4a (3)   | 810          |
| @5.0'; VERY STIFF, WITH WOOD FRAGMENTS, MOIST   |       | 4      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
| @6.5'; STIFF  |       | 5      | 6           | 17              | 78         | SS-2         | 4.5+        | 11            | 8  | 14 | 42 | 25 | 28        | 20 | 8  | 16                 | A-4a (6)   | 830          |
|   |       | 6      | 5           | 15              | 33         | SS-3         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 20                 | A-4a (V)   | -            |
|   |       | 7      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
|   | 893.9 | 8      | 4           | 9               | 89         | SS-4         | 1.50        | -             | -  | -  | -  | -  | -         | -  | -  | 21                 | A-4a (V)   | -            |
|   |       | EOB    | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-046-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               | PAGE<br>1 OF 1               |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>901.9 (NAVD88)</u> EOB: <u>8.0 ft.</u> |                              |
| START: <u>11/13/19</u> END: <u>11/13/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.566990, -81.405528</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (11.0") & CONCRETE (9.0")  | 901.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 900.2 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN, <b>SANDY SILT</b> , SOME GRAVEL<br>AND STONE FRAGMENTS, LITTLE CLAY, DAMP |       | 2      | 5           | 17              | 56         | SS-1         | 2.50        | 26            | 16 | 22 | 19 | 17 | 23        | 16 | 7  | 12 | A-4a (0)           | 800        |              |
|  |       | 3      | 6           | 29              | 56         | SS-2         | 2.25        | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-4a (V)           | -          |              |
|  |       | 4      | 6           | 29              | 56         | SS-2         | 2.25        | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-4a (V)           | -          |              |
|  |       | 5      | 7           | 26              | 89         | SS-3         | 3.50        | 9             | 8  | 32 | 27 | 24 | 21        | 15 | 6  | 11 | A-4a (3)           | 410        |              |
| @5.0'; GRAYISH BROWN, SOME CLAY, TRACE<br>GRAVEL AND STONE FRAGMENTS                         |       | 6      | 9           | 26              | 89         | SS-3         | 3.50        | 9             | 8  | 32 | 27 | 24 | 21        | 15 | 6  | 11 | A-4a (3)           | 410        |              |
|  |       | 7      | 10          | 62              | 67         | SS-4         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-4a (V)           | -          |              |
|  | 893.9 | 8      | 31          | 62              | 67         | SS-4         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-4a (V)           | -          |              |
|  |       | EOB    | 12          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-047-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 903.0 (NAVD88) EOB: 6.8 ft. | PAGE: 1 OF 1               |
| START: 11/13/19 END: 11/13/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.569011, -81.404207      |                            |

| MATERIAL DESCRIPTION AND NOTES  | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | ODOT CLASS (GI) | SO4 ppm   | BACK FILL |    |
|---|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|-----------------|-----------|-----------|----|
|   |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |                 |           |           | WC |
| ASPHALT (10.75") & CONCRETE (8.75")   | 903.0 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |           |    |
| VERY DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP<br><br>SANDSTONE, YELLOWISH BROWN, MODERATELY WEATHERED, WEAK TO SLIGHTLY STRONG, VERY FINE GRAINED TO FINE GRAINED. | 901.4 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |           |    |
|   | 900.0 | 2      | 12      | -               | 33      | SS-1      | -        | 52            | 14 | 13 | 12 | 9  | 22        | 16 | 6  | -               | A-1-b (0) | 220       |    |
|   |       | 3      | 47      |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |           |    |
|   | 896.2 | 4      | 44      | -               | 33      | SS-2      | -        | -             | -  | -  | -  | -  | -         | -  | -  | -               | 4         | Rock (V)  | -  |
|   |       | 5      | 50      | -               | 100     | SS-3      | -        | -             | -  | -  | -  | -  | -         | -  | -  | -               | 5         | Rock (V)  | -  |
|   |       | 6      | 50/3"   | -               | 100     | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | -  | -               | 6         | Rock (V)  | -  |
|   | EOB   |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |           |    |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-048-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>906.0 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/13/19</u> END: <u>11/13/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.570890, -81.402873</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |     |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|-----|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |     |
| ASPHALT (11.5") & CONCRETE (9.0")  | 906.0 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |     |
|  | 904.3 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |     |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND AND SILT, LITTLE CLAY,<br>DAMP<br>@3.5'; VERY DENSE |       | 2      | 7           | 20              | 83         | SS-1         | -           | 28            | 27 | 22 | 12 | 11 | 21        | 14 | 7  | 11 | A-2-4 (0)          | 1400       |              |     |
|  |       | 3      | 6           | 11              | 39         | 73           | 89          | SS-2          | -  | -  | -  | -  | -         | -  | -  | 8  | A-2-4 (V)          | -          |              |     |
| @5.0'; DENSE, YELLOWISH BROWN, TRACE CLAY  |       | 4      | 27          | 14              | 9          | 33           | 78          | SS-3          | -  | 45 | 4  | 36 | 9         | 6  | NP | NP | NP                 | 6          | A-2-4 (0)    | 150 |
| @6.5'; MEDIUM DENSE  |       | 5      | 7           | 9               | 7          | 23           | 100         | SS-4          | -  | -  | -  | -  | -         | -  | -  | 8  | A-2-4 (V)          | -          |              |     |
|  | 898.0 | 7      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |     |
|  |       | 8      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |     |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |     |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS



|   |   |                                 |  |                                     |
|---|---|---------------------------------|--|-------------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br><u>B-049-0-19</u> |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                                     |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>908.3 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br><u>1 OF 1</u>               |
| START: <u>11/13/19</u> END: <u>11/13/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.572749, -81.401280</u>             |                                     |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (10.5") & CONCRETE (9.0")   | 908.3 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 906.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, DAMP             | 904.8 | 2      | 10          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 3      | 7           | 16              | 33         | SS-1         | -           | 33            | 18 | 20 | 17 | 12 | 21        | 14 | 7  | 8  | A-2-4 (0)          | 2600       |              |
| MEDIUM STIFF, REDDISH BROWN, <b>SILT</b> , SOME CLAY, TRACE SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST |       | 4      | 3           | 9               | 100        | SS-2         | 0.50        | 1             | 1  | 5  | 62 | 31 | 31        | 22 | 9  | 27 | A-4b (8)           | 980        |              |
|   |       | 5      | 2           | 3               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 6      | 3           | 9               | 100        | SS-3         | 0.50        | -             | -  | -  | -  | -  | -         | -  | -  | 26 | A-4b (V)           | -          |              |
|   |       | 7      | 3           | 3               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; SOFT   |       | 8      | 3           | 10              | 100        | SS-4         | 0.25        | -             | -  | -  | -  | -  | -         | -  | -  | 25 | A-4b (V)           | -          |              |
|   | 900.3 | EOB    | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-050-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 907.5 (NAVD88) EOB: 6.7 ft. | PAGE: 1 OF 1               |
| START: 11/13/19 END: 11/13/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.574362, -81.399404      |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|---------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |         |           |
| ASPHALT (10.25") & CONCRETE (9.25")  | 907.5 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| VERY DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP<br><br>SANDSTONE, BROWN AND YELLOWISH BROWN, HIGHLY WEATHERED, WEAK TO SLIGHTLY STRONG, VERY FINE GRAINED TO FINE GRAINED. | 905.9 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 904.5 | 2      | 14      | -               | 83      | SS-1      | -        | 28            | 18 | 30 | 13 | 11 | NP        | NP | NP | 10 | A-2-4 (0)       | 450     |           |
|  |       | 3      | 50      | -               | 100     | SS-2      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 7  | Rock (V)        | -       |           |
|  | 900.8 | 4      | 56      | -               | 100     | SS-3      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 4  | Rock (V)        | -       |           |
|  |       | 5      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 6     | EOB    | 60/2"   | -               | 100     | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 4  | Rock (V)        | -       |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 3 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-051-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>904.2 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/13/19</u> END: <u>11/13/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.575770, -81.397667</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (10.5") & CONCRETE (8.5")   | 904.2 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND AND SILT, LITTLE CLAY,<br>DAMP | 902.6 | 2      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 3      | 9           | 23              | 67         | SS-1         | -           | 39            | 19 | 16 | 14 | 12 | 22        | 15 | 7  | 10 | A-2-4 (0)          | 700        |              |
|   |       | 4      | 7           | 11              | 26         | SS-2         | -           | 42            | 17 | 15 | 14 | 12 | 24        | 15 | 9  | 8  | A-2-4 (0)          | 310        |              |
|   |       | 5      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 897.7 | 6      | 7           | 6               | 19         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 13 | A-2-4 (V)          | -          |              |
| HARD, BROWN, SILT AND CLAY, SOME SAND, SOME<br>GRAVEL AND STONE FRAGMENTS, DAMP             | 896.2 | 7      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 8      | 12          | 12              | 35         | SS-4         | 4.5+        | 27            | 14 | 17 | 21 | 21 | 25        | 14 | 11 | 11 | A-6a (2)           | -          |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-052-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>905.0 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/13/19</u> END: <u>11/13/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.577206, -81.395853</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (16.0")  | 905.0 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN AND GRAY, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, MOIST @3.0'; DAMP | 903.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 2      | 3           | 5               | 17         | 44           | SS-1        | -             | 36 | 22 | 24 | 10 | 8         | NP | NP | NP | 11                 | A-1-b (0)  | 220          |
|  |       | 3      | 5           | 9               | 25         | 67           | SS-2        | -             | 50 | 15 | 19 | 11 | 5         | NP | NP | NP | 9                  | A-1-b (0)  | 160          |
|  |       | 4      | 8           | 9               | 7          | 15           | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 9                  | A-1-b (V)  | -            |
|  |       | 5      | 9           | 7               | 3          | 15           | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 9                  | A-1-b (V)  | -            |
| @6.0'; LOOSE, MOIST  | 897.5 | 6      | 2           | 3               | 10         | 39           | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 11                 | A-1-b (V)  | -            |
|  |       | 7      | 3           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-053-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>901.9 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/13/19</u> END: <u>11/13/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.578864, -81.393844</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (16.0")   | 901.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 900.6 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, DAMP | 898.9 | 2      | 10          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 3      | 19          | 58              | 67         | SS-1         | -           | 22            | 16 | 33 | 15 | 14 | NP        | NP | NP | 9  | A-2-4 (0)          | 170        |              |
| DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, DAMP   | 894.4 | 4      | 19          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 5      | 18          | 41              | 83         | SS-2         | -           | 38            | 20 | 20 | 13 | 9  | 20        | 16 | 4  | 8  | A-1-b (0)          | 170        |              |
|   |       | 6      | 10          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 7      | 16          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.0'; MEDIUM DENSE   |       | 6      | 11          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 7      | 10          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 894.4 | 7      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | EOB    | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-054-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 901.9 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/13/19 END: 11/13/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.580322, -81.391715      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |  |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|--|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |  |
| ASPHALT (9.0") & CONCRETE (8.25")   | 901.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |  |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, DAMP  | 900.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |  |
|   | 898.9 | 2      | 9           | 16              | 41         | 67           | SS-1        | -             | 33 | 28 | 20 | 13 | 6         | NP | NP | NP | 7                  | A-1-b (0)  | 320          |  |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS</b> , SOME SAND, LITTLE SILT, TRACE CLAY, DAMP | 897.4 | 3      | 9           | 8               | 20         | 78           | SS-2        | -             | 51 | 24 | 10 | 12 | 3         | NP | NP | NP | 3                  | A-1-a (0)  | <100         |  |
|   |       | 4      | 3           | 6               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |  |
| SOFT, LIGHT BROWN, <b>SILT</b> , SOME CLAY, TRACE SAND, TRACE GRAVEL, WET @6.0'; STIFF            |       | 5      | 3           | 3               | 10         | 56           | SS-3        | 0.25          | -  | -  | -  | -  | -         | -  | -  | -  | 28                 | A-4b (V)   | -            |  |
|   |       | 6      | 2           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |  |
|   | 894.4 | 7      | 2           | 3               | 7          | 100          | SS-4        | 1.50          | 1  | 1  | 1  | 66 | 31        | 30 | 20 | 10 | 29                 | A-4b (8)   | -            |  |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |  |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-055-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 901.9 (NAVD88) EOB: 7.5 ft. | PAGE: 1 OF 1               |
| START: 11/14/19 END: 11/14/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.581755, -81.389531      |                            |

| MATERIAL DESCRIPTION<br>AND NOTES                                | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.25") & CONCRETE (8.75")                               | 901.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 900.4 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN, SANDY SILT, SOME GRAVEL,<br>LITTLE CLAY, DAMP |       | 2      | 2           | 15              | 44         | SS-1         | 2.50        | 22            | 19 | 23 | 23 | 13 | 19        | 13 | 6  | 11 | A-4a (0)           | 840        |              |
| @3.0'; STIFF, BROWN, SOME CLAY, TRACE GRAVEL,<br>MOIST           |       | 3      | 3           | 12              | 50         | SS-2         | 2.00        | 7             | 8  | 15 | 43 | 27 | 27        | 17 | 10 | 17 | A-4a (7)           | 950        |              |
| @4.5'; BROWN AND GRAYISH BROWN                                   |       | 4      | 4           | 15              | 83         | SS-3         | 2.00        | -             | -  | -  | -  | -  | -         | -  | -  | 17 | A-4a (V)           | -          |              |
|  |       | 5      | 3           | 15              | 83         | SS-3         | 2.00        | -             | -  | -  | -  | -  | -         | -  | -  | 17 | A-4a (V)           | -          |              |
|  |       | 6      | 6           | 20              | 78         | SS-4         | 1.75        | -             | -  | -  | -  | -  | -         | -  | -  | 18 | A-4a (V)           | -          |              |
|  | 894.4 | 7      | 7           | 20              | 78         | SS-4         | 1.75        | -             | -  | -  | -  | -  | -         | -  | -  | 18 | A-4a (V)           | -          |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-056-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>902.2 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/14/19</u> END: <u>11/14/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.583106, -81.387358</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.0") & CONCRETE (9.0")  | 902.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 900.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN AND GRAY, <b>SILTY SAND</b> , LITTLE CLAY, TRACE GRAVEL, DAMP                                | 899.2 | 2      | 2           | 9               | 56         | SS-1         | 1.50        | 9             | 15 | 38 | 26 | 12 | 17        | 14 | 3  | 11 | A-4a (1)           | 150        |              |
|   |       | 3      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| STIFF, BROWN MOTTLED WITH GRAY, <b>SILT AND CLAY</b> , SOME SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST |       | 4      | 5           | 13              | 83         | SS-2         | 2.00        | 3             | 7  | 20 | 41 | 29 | 27        | 16 | 11 | 19 | A-6a (7)           | 190        |              |
|   |       | 5      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 6      | 4           | 12              | 100        | SS-3         | 1.50        | -             | -  | -  | -  | -  | -         | -  | -  | 22 | A-6a (V)           | -          |              |
|   |       | 7      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.0'; VERY STIFF   | 894.7 | EOB    | 5           | 16              | 89         | SS-4         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 23 | A-6a (V)           | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS



|                               |  |                          |   |                            |
|-------------------------------|--|--------------------------|---|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                 | EXPLORATION ID: B-057-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800         |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 902.2 (NAVD88) EOB: 6.25 ft. | PAGE: 1 OF 1               |
| START: 11/14/19 END: 11/14/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.584583, -81.385086       |                            |

| MATERIAL DESCRIPTION AND NOTES  | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm  | BACK FILL |
|---|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|----------|-----------|
|   |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |          |           |
| ASPHALT (8.0") & CONCRETE (10.0")   | 902.2 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |          |           |
| MEDIUM DENSE, BROWN AND BLACK, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP | 900.7 | 1      | 4       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |          |           |
| DENSE, BROWN, SANDY SILT, LITTLE STONE FRAGMENTS, LITTLE CLAY, DAMP                             | 899.2 | 2      | 11      | 30              | 50      | SS-1      | -        | 30            | 4  | 32 | 23 | 11 | NP        | NP | NP | 11 | A-2-4 (0)       | 760      |           |
| DENSE, BROWN, SANDY SILT, LITTLE STONE FRAGMENTS, LITTLE CLAY, DAMP                             | 897.7 | 3      | 12      | 11              | 32      | 56        | SS-2     | -             | 16 | 2  | 34 | 37 | 11        | NP | NP | NP | 10              | A-4a (3) | 530       |
| SANDSTONE, BROWN, HIGHLY WEATHERED, WEAK, VERY FINE GRAINED TO FINE GRAINED.                    | 895.9 | 4      | 12      | 11              | 32      | 56        | SS-2     | -             | 16 | 2  | 34 | 37 | 11        | NP | NP | NP | 10              | A-4a (3) | 530       |
|   |       | 5      | 12      | 45              | -       | 67        | SS-3     | -             | -  | -  | -  | -  | -         | -  | -  | -  | 8               | Rock (V) | -         |
|   |       | 6      | 60/3"   | -               | 100     | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 8               | Rock (V) | -         |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-058-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 902.2 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/14/19 END: 11/14/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.585953, -81.382886      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |     |  |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|--------------------|------------|--------------|-----|--|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |                    |            |              | WC  |  |
| ASPHALT (9.0") & CONCRETE (9.0")   | 902.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |     |  |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND AND SILT, TRACE CLAY,<br>DAMP<br>@3.0'; BROWN AND GRAY, LITTLE CLAY | 900.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |     |  |
|  |       | 2      | 3           | 5               | 12         | 33           | SS-1        | -             | 45 | 17 | 13 | 18 | 7         | 21 | 13 | 8                  | 9          | A-2-4 (0)    | 490 |  |
|  |       | 3      | 3           | 5               | 13         | 39           | SS-2        | -             | 36 | 12 | 17 | 23 | 12        | 23 | 15 | 8                  | 11         | A-2-4 (0)    | 290 |  |
|  | 897.7 | 4      | 3           | 5               | 13         | 39           | SS-2        | -             | 36 | 12 | 17 | 23 | 12        | 23 | 15 | 8                  | 11         | A-2-4 (0)    | 290 |  |
| VERY STIFF, BROWN AND GRAY, SILT AND CLAY,<br>"AND" STONE FRAGMENTS, LITTLE SAND, DAMP<br>@6.0'; BROWN                           |       | 5      | 3           | 4               | 15         | 39           | SS-3        | 3.00          | -  | -  | -  | -  | -         | -  | -  | -                  | 13         | A-6a (V)     | -   |  |
|  |       | 6      | 4           | 4               | 15         | 39           | SS-3        | 3.00          | -  | -  | -  | -  | -         | -  | -  | -                  | 13         | A-6a (V)     | -   |  |
|  | 894.7 | 7      | 4           | 5               | 20         | 89           | SS-4        | 3.50          | 45 | 5  | 9  | 23 | 18        | 30 | 19 | 11                 | 15         | A-6a (1)     | -   |  |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |     |  |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\TE\000697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|   |  |                                 |  |                              |
|---|--|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u>  | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-059-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCINTOSH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>               | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>901.5 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/18/19</u> END: <u>11/18/19</u> | SAMPLING METHOD: <u>SPT</u>                    | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.587359, -81.380759</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (8.0") & CONCRETE (9.0")  | 901.5 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN AND GRAY, <b>SILT AND CLAY</b> ,<br>SOME SAND, LITTLE STONE FRAGMENTS, DAMP<br><br>@3.0'; SOME STONE FRAGMENTS<br><br><br>@6.0'; LIGHT BROWN AND GRAY MOTTLED | 900.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 2      | 3           | 4               | 13         | 67           | SS-1        | 3.00          | 11 | 9  | 14 | 34 | 32        | 30 | 19 | 11 | 17                 | A-6a (7)   | 340          |
|   |       | 3      | 4           | 5               | 16         | 100          | SS-2        | 4.00          | 28 | 10 | 15 | 25 | 22        | 30 | 19 | 11 | 18                 | A-6a (3)   | 250          |
|   |       | 4      | 5           | 6               | 17         | 67           | SS-3        | 2.50          | -  | -  | -  | -  | -         | -  | -  | -  | 17                 | A-6a (V)   | -            |
|   |       | 5      | 4           | 7               | 13         | 61           | SS-4        | 3.50          | -  | -  | -  | -  | -         | -  | -  | -  | 15                 | A-6a (V)   | -            |
|   |       | 6      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 894.0  | 7           | 4               | 5          |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-060-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>902.1 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/14/19</u> END: <u>11/14/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.588745, -81.378511</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    |    | SO4<br>ppm | BACK<br>FILL |                    |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|------------|--------------|--------------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI | WC |            |              | ODOT<br>CLASS (GI) |
| ASPHALT (9.0") & CONCRETE (9.0")   | 902.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |            |              |                    |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, MOIST      | 900.6 | 1      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |            |              |                    |
| VERY STIFF, BROWN AND GRAY, <b>SANDY SILT</b> , SOME GRAVEL AND STONE FRAGMENTS, LITTLE CLAY, DAMP | 899.1 | 2      | 8           | 20              | 17         | SS-1         | -           | 55            | 28 | 10 | 5  | 2  | 28        | 19 | 9  | 9  | A-2-4 (0)  | 210          |                    |
|  |       | 3      | 5           | 6               |            |              |             |               |    |    |    |    |           |    |    |    |            |              |                    |
|  |       | 4      | 9           | 7               | 23         | 56           | SS-2        | -             | 32 | 13 | 14 | 26 | 15        | 24 | 16 | 8  | 11         | A-4a (1)     | 220                |
|  |       | 5      | 3           | 7               | 26         | 44           | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 11         | A-4a (V)     | -                  |
|  |       | 6      | 9           | 11              |            |              |             |               |    |    |    |    |           |    |    |    |            |              |                    |
| @6.0'; HARD  | 894.6 | 7      | 11          | 14              | 36         | 39           | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 11         | A-4a (V)     | -                  |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |            |              |                    |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-061-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>902.1 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/18/19</u> END: <u>11/18/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.590153, -81.376328</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (10.5") & CONCRETE (9.5")   | 902.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 900.4 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN AND GRAY MOTTLED, <b>SANDY SILT</b> , SOME CLAY, LITTLE STONE FRAGMENTS, DAMP |       | 2      | 8           | 36              | 39         | SS-1         | 3.00        | 17            | 7  | 10 | 42 | 24 | 27        | 19 | 8  | 17 | A-4a (6)           | 560        |              |
|   |       | 3      | 11<br>14    | 30              | 50         | SS-2         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 13 | A-4a (V)           | -          |              |
| @5.0'; GRAY MOTTLED WITH BROWN  |       | 4      | 10<br>11    | 30              | 50         | SS-2         | 3.50        | -             | -  | -  | -  | -  | -         | -  | -  | 13 | A-4a (V)           | -          |              |
|   |       | 5      | 5           | 10              |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; HARD   |       | 6      | 6           | 9               | 22         | 78           | SS-3        | 3.25          | 36 | 5  | 6  | 32 | 21        | 29 | 19 | 10 | 13                 | A-4a (4)   | 380          |
|   |       | 7      | 7           | 9               | 23         | 44           | SS-4        | 4.50          | -  | -  | -  | -  | -         | -  | -  | 11 | A-4a (V)           | -          |              |
|   | 894.1 | 8      | 7           | 9               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-062-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>902.1 (NAVD88)</u> EOB: <u>8.0 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/18/19</u> END: <u>11/18/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.591877, -81.372746</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.75") & CONCRETE (10.25")  | 902.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 900.4 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN MOTTLED WITH GRAY, <b>SANDY SILT</b> , SOME CLAY, LITTLE STONE FRAGMENTS, WITH SLAG, MOIST<br>@3.5'; STIFF |       | 2      | 4           | 17              | 67         | SS-1         | 3.50        | 13            | 8  | 14 | 41 | 24 | 26        | 17 | 9  | 19 | A-4a (6)           | 620        |              |
| @5.0'; VERY STIFF, DAMP  |       | 3      | 7           | 17              | 50         | SS-2         | 1.00        | -             | -  | -  | -  | -  | -         | -  | -  | 17 | A-4a (V)           | -          |              |
| @6.5'; BROWN AND GRAY MOTTLED  |       | 4      | 7           | 17              | 50         | SS-2         | 1.00        | -             | -  | -  | -  | -  | -         | -  | -  | 17 | A-4a (V)           | -          |              |
|  |       | 5      | 5           | 15              | 56         | SS-3         | 3.25        | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-4a (V)           | -          |              |
|  |       | 6      | 5           | 15              | 56         | SS-3         | 3.25        | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-4a (V)           | -          |              |
|  |       | 7      | 5           | 16              | 67         | SS-4         | 3.25        | 20            | 7  | 11 | 38 | 24 | 28        | 18 | 10 | 15 | A-4a (5)           | 230        |              |
|  | 894.1 | 8      | 5           | 16              | 67         | SS-4         | 3.25        | 20            | 7  | 11 | 38 | 24 | 28        | 18 | 10 | 15 | A-4a (5)           | 230        |              |
|  |       | EOB    | 6           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-063-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 902.2 (NAVD88) EOB: 8.0 ft. | PAGE: 1 OF 1               |
| START: 11/18/19 END: 11/18/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.592812, -81.370113      |                            |

| MATERIAL DESCRIPTION AND NOTES  | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|---|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|---------|-----------|
|   |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |         |           |
| ASPHALT (10.0") & CONCRETE (9.0")   | 902.2 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| MEDIUM DENSE, BROWN, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, DAMP  | 900.6 | 1      | 5       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| VERY STIFF, BROWN AND GRAY, <b>SANDY SILT</b> , SOME STONE FRAGMENTS, LITTLE CLAY, WITH SLAG, DAMP @4.3' - 5.0'; ENCOUNTERED BOULDERS/COBBLES | 898.7 | 2      | 6       | 17              | 100     | SS-1      | -        | 29            | 13 | 26 | 19 | 13 | 21        | 17 | 4  | 15 | A-2-4 (0)       | 180     |           |
|   |       | 3      | 8       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|   |       | 4      | 50      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|   |       | 5      | 39      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|   | 895.7 | 6      | 18      | 46              | 50      | SS-3      | 3.00     | -             | -  | -  | -  | -  | -         | -  | -  | 14 | A-4a (V)        | -       |           |
|   |       | 7      | 14      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| VERY STIFF, BROWN AND GRAY MOTTLED, <b>SANDY SILT</b> , SOME CLAY, TRACE STONE FRAGMENTS, MOIST   | 894.2 | 7      | 6       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|   |       | 8      | 7       | 20              | 89      | SS-4      | 2.50     | 2             | 4  | 26 | 44 | 24 | 24        | 16 | 8  | 18 | A-4a (7)        | -       |           |
|   |       | EOB    |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-064-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 902.1 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 11/18/19 END: 11/18/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.593640, -81.367622      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |                    |            |              |
| ASPHALT (9.5") & CONCRETE (9.5")   | 902.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
|  | 900.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
| STIFF, BROWN, SANDY SILT, SOME STONE<br>FRAGMENTS, LITTLE CLAY, MOIST  | 898.6 | 2      | 5           | 15              | 78         | SS-1         | 2.00        | 22            | 13 | 24 | 25 | 16 | 22        | 15 | 7  | 16                 | A-4a (1)   | 410          |
|  |       | 3      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
| VERY STIFF, BROWN, SILT, SOME CLAY, LITTLE<br>SAND, TRACE STONE FRAGMENTS, MOIST                                       | 897.1 | 4      | 4           | 13              | 89         | SS-2         | 2.50        | 1             | 2  | 15 | 52 | 30 | 27        | 17 | 10 | 19                 | A-4b (8)   | 370          |
|  |       | 5      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
| STIFF, BROWN AND GRAY, SILT AND CLAY, LITTLE<br>SAND, TRACE STONE FRAGMENTS, MODERATELY<br>ORGANIC (LOI = 4.6%), MOIST |       | 6      | 4           | 12              | 100        | SS-3         | 1.50        | 2             | 4  | 11 | 52 | 31 | 29        | 18 | 11 | 21                 | A-6a (8)   | -            |
|  |       | 7      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |
|  | 894.1 | 8      | 2           | 7               | 100        | SS-4         | 1.50        | -             | -  | -  | -  | -  | -         | -  | -  | 21                 | A-6a (V)   | -            |
|  |       | EOB    | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 7 LB. BENTONITE CHIPS



|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-065-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>990.9 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/19/19</u> END: <u>11/19/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.608914, -81.366610</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.5") & CONCRETE (9.0")  | 990.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, MOIST     | 989.7 | 1      | 6           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 2      | 8           | 26              | 67         | SS-1         | -           | 38            | 24 | 18 | 14 | 6  | NP        | NP | NP | 12 | A-1-b (0)          | 170        |              |
|   | 987.9 | 3      | 7           | 10              |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 4      | 10          | 32              | 44         | SS-2         | 4.50        | -             | -  | -  | -  | -  | -         | -  | -  | 15 | A-4a (V)           | -          |              |
| HARD, BROWN AND GRAY, <b>SANDY SILT</b> , LITTLE CLAY, TRACE STONE FRAGMENTS, MOIST @4.5'; VERY STIFF |       | 5      | 7           | 22              | 67         | SS-3         | 3.25        | 7             | 28 | 14 | 38 | 13 | 26        | 16 | 10 | 19 | A-4a (3)           | 160        |              |
|   |       | 6      | 11          | 8               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 983.4 | 7      | 12          | 35              | 56         | SS-4         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 16 | A-4a (V)           | -          |              |
|   |       | EOB    | 12          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |   |                |
|-------------------------------|--|--------------------------|---|----------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET:                       | EXPLORATION ID |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800         | B-066-0-19     |
| PID: 100603 SFN:              | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 1011.1 (NAVD88) EOB: 7.5 ft. | PAGE           |
| START: 11/18/19 END: 11/18/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.609930, -81.367148       | 1 OF 1         |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV.  | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC       | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|--------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----------|--------------------|------------|--------------|
|  |        |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |          |                    |            |              |
| ASPHALT (4.5") & CONCRETE (9.5")   | 1011.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| MEDIUM DENSE, BROWN, SANDY SILT, "AND" GRAVEL AND STONE FRAGMENTS, LITTLE CLAY, DAMP     | 1010.0 | 1      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| SHALE, DARK GRAY WITH REDDISH BROWN, MODERATELY WEATHERED, VERY WEAK TO WEAK, LAMINATED. | 1008.1 | 2      | 6           | 15              | 44         | SS-1         | -           | 37            | 3  | 12 | 33 | 15 | NP        | NP | NP | 10       | A-4a (3)           | 300        |              |
|  |        | 3      | 7           | 4               |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|  |        | 4      | 12          | 38              | 78         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 20       | Rock (V)           | -          |              |
|  |        | 5      | 17          | 62              | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 21       | Rock (V)           | -          |              |
|  | 1003.6 | 6      | 14          | 21              |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|  |        | 7      | 19          | 54              | 100        | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | 19 | Rock (V) | -                  |            |              |
|  |        | EOB    | 18          |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|                               |  |                          |   |                              |
|-------------------------------|--|--------------------------|---|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                 | EXPLORATION ID<br>B-067-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800         |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 1028.7 (NAVD88) EOB: 7.0 ft. | PAGE<br>1 OF 1               |
| START: 11/19/19 END: 11/19/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.610982, -81.367542       |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV.  | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|--------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |        |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (3.5") & CONCRETE (8.5")  | 1028.7 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND AND SILT, TRACE CLAY,<br>DAMP TO MOIST | 1027.7 | 1      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @3.0'; VERY DENSE, LITTLE CLAY  | 1025.1 | 2      | 12          | 29              | 28         | SS-1         | -           | 43            | 33 | 10 | 5  | 9  | 20        | 13 | 7  | 13 | A-2-4 (0)          | 220        |              |
| SHALE, GRAYISH BROWN WITH REDDISH BROWN,<br>HIGHLY WEATHERED, VERY WEAK TO WEAK,<br>LAMINATED.      | 1025.1 | 3      | 20          | 8               |            | SS-2A        | -           | 42            | 20 | 18 | 6  | 14 | 22        | 13 | 9  | 10 | A-2-4 (0)          | 380        |              |
|   |        | 4      | 26          | 84              | 89         | SS-2B        | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | Rock (V)           | -          |              |
|   |        | 5      | 33          | 104             | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | Rock (V)           | -          |              |
|   |        | 6      | 30          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 1021.7 | 7      | 59          | -               | 100        | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | Rock (V)           | -          |              |
|   |        | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

|                               |  |                          |   |                              |
|-------------------------------|--|--------------------------|---|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                 | EXPLORATION ID<br>B-068-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800         |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 1041.4 (NAVD88) EOB: 6.3 ft. | PAGE<br>1 OF 1               |
| START: 11/18/19 END: 11/18/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.612012, -81.368044       |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV.  | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC       | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|--------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----------|--------------------|------------|--------------|
|   |        |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |          |                    |            |              |
| ASPHALT (5.0") & CONCRETE (9.0")  | 1041.4 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| STIFF, GRAYISH BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND AND SILT, TRACE CLAY,<br>MOIST    | 1040.3 | 1      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| SANDSTONE, REDDISH BROWN, HIGHLY<br>WEATHERED, VERY WEAK, MEDIUM TO COARSE<br>GRAINED, FRIABLE. | 1038.4 | 2      | 12<br>14    | 38              | 67         | SS-1         | -           | 46            | 6  | 21 | 18 | 9  | NP        | NP | NP | 15       | A-2-4 (0)          | 330        |              |
|   |        | 3      | 14<br>18    | 49              | 67         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9        | Rock (V)           | -          |              |
|   |        | 4      | 12<br>16    | 46              | 89         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8        | Rock (V)           | -          |              |
|   |        | 5      | 16<br>16    | 46              | 89         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8        | Rock (V)           | -          |              |
|   | 1035.2 | 6      | 50/3"       | -               | 100        | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | 9  | Rock (V) | -                  |            |              |
|   |        | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 4 LB. BENTONITE CHIPS

|                               |  |                          |   |                              |
|-------------------------------|--|--------------------------|---|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                 | EXPLORATION ID<br>B-069-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800         |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 1047.2 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/19/19 END: 11/19/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.613089, -81.368245       |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV.  | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|--------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |        |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (4.75") & CONCRETE (8.75")  | 1047.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP                      | 1046.0 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN AND GRAY, SILT AND CLAY, "AND" STONE FRAGMENTS, SOME SAND, MOIST @4.5'; WITH COAL FRAGMENTS | 1044.2 | 2      | 9           | 12              | 50         | SS-1         | -           | 42            | 22 | 19 | 11 | 6  | NP        | NP | NP | 9  | A-1-b (0)          | 200        |              |
|   |        | 3      | 2           | 13              | 33         | SS-2         | 2.50        | -             | -  | -  | -  | -  | -         | -  | -  | 13 | A-6a (V)           | -          |              |
| @6.0'; YELLOWISH BROWN  | 1039.7 | 4      | 6           | 16              | 67         | SS-3         | 3.00        | 38            | 11 | 14 | 16 | 21 | 27        | 14 | 13 | 16 | A-6a (1)           | 520        |              |
|   |        | 5      | 4           | 16              | 56         | SS-4         | 3.00        | -             | -  | -  | -  | -  | -         | -  | -  | 13 | A-6a (V)           | -          |              |
|   |        | 6      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |        | 7      | 6           | 5               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |        | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |   |                              |
|-------------------------------|--|--------------------------|---|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                 | EXPLORATION ID<br>B-070-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800         |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 1048.6 (NAVD88) EOB: 7.0 ft. | PAGE<br>1 OF 1               |
| START: 11/18/19 END: 11/18/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.614190, -81.368355       |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV.  | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|--------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |        |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.0") & CONCRETE (9.0")   | 1048.6 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN AND GRAY, GRAVEL AND<br>STONE FRAGMENTS WITH SAND, SILT, AND CLAY,<br>DAMP | 1047.4 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |        | 2      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |        | 3      | 4           | 12              | 33         | SS-1         | -           | 47            | 15 | 9  | 14 | 15 | 27        | 15 | 12 | 14 | A-2-6 (0)          | 240        |              |
|  | 1045.1 | 4      | 9           | 20              | 59         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | Rock (V)           | -          |              |
| SHALE, GRAY, HIGHLY WEATHERED, VERY WEAK<br>TO WEAK, LAMINATED.                                |        | 5      | 21          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |        | 6      | 50          |                 |            | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 7  | Rock (V)           | -          |              |
|  | 1041.6 | 7      | 24          |                 |            | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 6  | Rock (V)           | -          |              |
|  |        | EOB    | 57          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |   |                              |
|---|---|---------------------------------|---|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                               | EXPLORATION ID<br>B-071-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>                |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>1043.1 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/19/19</u> END: <u>11/19/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.615271, -81.368180</u>              |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV.  | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|--------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |        |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.75") & CONCRETE (8.25")  | 1043.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS</b> , "AND" SAND, TRACE SILT, TRACE CLAY, DAMP | 1042.0 | 1      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |        | 2      | 5           | 22              | 28         | SS-1         | -           | 52            | 27 | 11 | 7  | 3  | NP        | NP | NP | 7  | A-1-a (0)          | 200        |              |
| HARD, BROWN, <b>SILT</b> , SOME SAND, SOME CLAY, TRACE GRAVEL AND STONE FRAGMENTS, DAMP           | 1040.1 | 3      | 11          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |        | 4      | 12          | 35              | 100        | SS-2         | 4.5+        | 3             | 4  | 18 | 53 | 22 | 26        | 19 | 7  | 17 | A-4b (8)           | 270        |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, DAMP     | 1038.6 | 5      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |        | 6      | 6           | 23              | 100        | SS-3         | -           | 37            | 9  | 24 | 19 | 11 | NP        | NP | NP | 18 | A-2-4 (0)          | -          |              |
|   |        | 7      | 8           | 16              | 83         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-2-4 (V)          | -          |              |
|   | 1035.6 | EOB    | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |   |                              |
|-------------------------------|--|--------------------------|---|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                 | EXPLORATION ID<br>B-072-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800         |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 1032.3 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/19/19 END: 11/19/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.616369, -81.367887       |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV.  | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC        | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|--------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|-----------|--------------------|------------|--------------|
|   |        |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |           |                    |            |              |
| ASPHALT (5.25") & CONCRETE (9.25")  | 1032.3 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL WITH SAND</b> , TRACE SILT, TRACE CLAY, (NOT ENOUGH TO TEST), DAMP           | 1031.1 | 1      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
| VERY STIFF TO HARD, BROWN AND GRAY, <b>SILT AND CLAY</b> , SOME SAND, SOME GRAVEL AND STONE FRAGMENTS, DAMP | 1029.3 | 2      | 5           | 13              | 11         | SS-1         | -           | -             | -  | -  | -  | -  | -         | -  | 11 | A-1-b (V) | -                  |            |              |
|   |        | 3      | 16          | 26              | 56         | SS-2         | -           | 26            | 13 | 15 | 19 | 27 | 29        | 17 | 12 | 15        | A-6a (3)           | 190        |              |
|   |        | 4      | 9           | 26              | 56         | SS-2         | -           | 26            | 13 | 15 | 19 | 27 | 29        | 17 | 12 | 15        | A-6a (3)           | 190        |              |
| SHALE, GRAY AND REDDISH BROWN, HIGHLY WEATHERED, VERY WEAK, LAMINATED.                                      | 1026.3 | 5      | 9           | 38              | 78         | SS-3         | 4.5+        | 21            | 8  | 15 | 19 | 37 | 32        | 18 | 14 | 15        | A-6a (6)           | 340        |              |
|   |        | 6      | 11          | 38              | 78         | SS-3         | 4.5+        | 21            | 8  | 15 | 19 | 37 | 32        | 18 | 14 | 15        | A-6a (6)           | 340        |              |
|   | 1024.8 | 7      | 12          | 52              | 89         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | 13 | Rock (V)  | -                  |            |              |
|   |        | EOB    | 14          |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|   |        |        | 22          |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:09 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS



|   |   |                                 |   |                              |
|---|---|---------------------------------|---|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                               | EXPLORATION ID<br>B-073-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>                |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>1015.9 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/19/19</u> END: <u>11/19/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.617362, -81.367307</u>              |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV.  | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|--------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |        |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.25") & CONCRETE (8.75")   | 1015.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, REDDISH BROWN, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, DAMP                  | 1014.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |        | 2      | 19          | 78              | 83         | SS-1         | -           | 48            | 2  | 32 | 10 | 8  | NP        | NP | NP | 9  | A-2-4 (0)          | 190        |              |
|  |        | 3      | 28          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |        | 4      | 26          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @4.5'; DENSE   |        | 5      | 19          | 54              | 83         | SS-2         | -           | 39            | 5  | 34 | 13 | 9  | NP        | NP | NP | 9  | A-2-4 (0)          | 220        |              |
|  |        | 6      | 20          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |        | 7      | 17          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, REDDISH BROWN, <b>COARSE AND FINE SAND</b> , SOME STONE FRAGMENTS, LITTLE SILT, LITTLE CLAY, DAMP | 1009.9 |        | 12          | 33              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |
|  | 1008.4 |        | 12          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |        | 7      | 10          | 36              | 67         | SS-4         | -           | 22            | 3  | 48 | 16 | 11 | NP        | NP | NP | 11 | A-3a (0)           | -          |              |
|  |        | EOB    | 11          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |        |        | 14          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-074-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 997.3 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/19/19 END: 11/19/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.618347, -81.366621      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.0") & CONCRETE (9.5")  | 997.3 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>COARSE AND FINE SAND</b> , LITTLE GRAVEL AND STONE FRAGMENTS, LITTLE SILT, LITTLE CLAY, DAMP | 996.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 2      | 10          | 32              | 56         | SS-1         | -           | 18            | 7  | 49 | 15 | 11 | NP        | NP | NP | 10 | A-3a (0)           | 210        |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, DAMP                  | 994.3 | 3      | 8           | 26              | 78         | SS-2         | -           | 18            | 4  | 43 | 27 | 8  | NP        | NP | NP | 12 | A-2-4 (0)          | 230        |              |
|   |       | 4      | 9           | 26              | 78         | SS-2         | -           | 18            | 4  | 43 | 27 | 8  | NP        | NP | NP | 12 | A-2-4 (0)          | 230        |              |
|   |       | 5      | 9           | 29              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-2-4 (V)          | -          |              |
|   |       | 6      | 10          | 29              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-2-4 (V)          | -          |              |
|   | 989.8 | 7      | 10          | 30              | 61         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |
|   |       | EOB    | 11          | 30              | 61         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-075-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>983.4 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/19/19</u> END: <u>11/19/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.619229, -81.365787</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (4.5") & CONCRETE (9.0")   | 983.4 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>COARSE AND FINE SAND</b> ,<br>LITTLE GRAVEL AND STONE FRAGMENTS, LITTLE<br>CLAY, MOIST<br>@3.0'; DENSE | 982.3 | 1      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 2      | 9           | 28              | 83         | SS-1         | -           | 13            | 8  | 47 | 22 | 10 | NP        | NP | NP | 11 | A-3a (0)           | 140        |              |
|  |       | 3      | 10          | 10              |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 4      | 14          | 36              | 67         | SS-2         | -           | 16            | 5  | 51 | 12 | 16 | NP        | NP | NP | 12 | A-3a (0)           | 210        |              |
|  |       | 5      | 8           | 10              | 11         |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 6      | 10          | 32              | 83         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-3a (V)           | -          |              |
|  |       | 7      | 8           | 12              |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.0'; MEDIUM DENSE, BROWN AND GRAY  | 975.9 | EOB    | 6           | 19              | 78         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 14 | A-3a (V)           | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-076-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>976.6 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/19/19</u> END: <u>11/19/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.620188, -81.365029</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.25") & CONCRETE (9.0")   | 976.6 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 975.4 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN, <b>COARSE AND FINE SAND</b> ,<br>LITTLE SILT, TRACE STONE FRAGMENTS, TRACE<br>CLAY, DAMP<br>@3.0'; LITTLE CLAY |       | 2      | 28          | 102             | 89         | SS-1         | -           | 10            | 4  | 61 | 17 | 8  | NP        | NP | NP | 8  | A-3a (0)           | 190        |              |
|   |       | 3      | 20          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 972.1 | 4      | 18          | 68              | 89         | SS-2         | -           | 7             | 2  | 60 | 20 | 11 | NP        | NP | NP | 10 | A-3a (0)           | 110        |              |
|   |       | 5      | 19          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN, <b>SANDY SILT</b> , TRACE CLAY,<br>TRACE STONE FRAGMENTS, DAMP<br>@6.0'; MEDIUM DENSE, MOIST                   |       | 6      | 23          | 62              | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-4a (V)           | -          |              |
|   |       | 7      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 969.1 | EOB    | 6           | 20              | 100        | SS-4         | -           | 1             | 1  | 54 | 36 | 8  | NP        | NP | NP | 20 | A-4a (2)           | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-077-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 972.1 (NAVD88) EOB: 6.3 ft. | PAGE: 1 OF 1               |
| START: 11/19/19 END: 11/19/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.621065, -81.364202      |                            |

| MATERIAL DESCRIPTION AND NOTES  | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC       | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|---|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----------|-----------------|---------|-----------|
|   |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |          |                 |         |           |
| ASPHALT (7.0") & CONCRETE (9.0")  | 972.1 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |          |                 |         |           |
| VERY DENSE, BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE STONE FRAGMENTS, TRACE CLAY, DAMP @3.0'; LITTLE STONE FRAGMENTS | 970.8 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |          |                 |         |           |
|   |       | 2      | 26      | 70              | 89      | SS-1      | -        | 9             | 37 | 31 | 17 | 6  | NP        | NP | NP | 7        | A-3a (0)        | 490     |           |
|   |       | 3      | 7       | 16              |         |           |          |               |    |    |    |    |           |    |    |          |                 |         |           |
| SANDSTONE, BROWN, HIGHLY WEATHERED, VERY WEAK, MEDIUM GRAINED.  | 967.6 | 4      | 14      | 55              | 67      | SS-2      | -        | 16            | 21 | 37 | 17 | 9  | NP        | NP | NP | 10       | A-3a (0)        | 350     |           |
|   |       | 5      | 26      |                 | 67      | SS-3      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 8        | Rock (V)        | -       |           |
|   | 965.8 | 6      | 47      |                 |         | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | 8  | Rock (V) | -               |         |           |
|   |       | EOB    | 50/3"   | -               | 100     |           | -        | -             | -  | -  | -  | -  | -         | -  | -  | -        | -               |         |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-078-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>967.2 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/19/19</u> END: <u>11/19/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.622010, -81.363428</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (6.25") & CONCRETE (9.0")  | 967.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, GRAYISH BROWN, <b>SANDY SILT</b> , LITTLE CLAY, TRACE STONE FRAGMENTS, DAMP                             | 965.9 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 2      | 10          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 3      | 15          | 45              | 100        | SS-1         | -           | 1             | 9  | 47 | 27 | 16 | NP        | NP | NP | 10 | A-4a (2)           | 440        |              |
| @3.0'; VERY DENSE  |       | 4      | 26          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 963.2 | 5      | 55          | -               | 100        | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-4a (V)           | -          |              |
| VERY DENSE, BROWN, <b>STONE FRAGMENTS</b> , SOME SAND, TRACE SILT, TRACE CLAY, WITH COBBLES AND BOULDERS, DAMP | 961.2 | 6      | 50/4"       | -               | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-a (V)          | -          |              |
| VERY DENSE, BROWN AND GRAY, <b>COARSE AND FINE SAND</b> , SOME SILT, LITTLE CLAY, TRACE STONE FRAGMENTS, DAMP  | 959.7 | 7      | 26          | 78              | 100        | SS-4         | -           | 4             | 6  | 58 | 21 | 11 | NP        | NP | NP | 11 | A-3a (0)           | 130        |              |
|  |       | EOB    | 33          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       |        | 21          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-079-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 963.7 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/19/19 END: 11/19/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.622881, -81.362599      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.0") & CONCRETE (9.5")   | 963.7 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 962.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, (NOT ENOUGH TO TEST), DAMP              | 960.7 | 2      | 10          | 19              | 22         | SS-1         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-1-b (V)          | -          |              |
|  |       | 3      | 24          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, YELLOWISH BROWN, <b>SANDY SILT</b> , LITTLE GRAVEL AND STONE FRAGMENTS, LITTLE CLAY, DAMP                              | 959.2 | 4      | 33          | 93              | 100        | SS-2         | -           | 12            | 4  | 48 | 25 | 11 | NP        | NP | NP | 9  | A-4a (0)           | 190        |              |
|  |       | 5      | 24          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, YELLOWISH BROWN, <b>COARSE AND FINE SAND</b> , SOME SILT, LITTLE CLAY, TRACE STONE FRAGMENTS, DAMP @6.0'; MEDIUM DENSE | 956.2 | 6      | 20          | 58              | 78         | SS-3         | -           | 9             | 4  | 53 | 23 | 11 | NP        | NP | NP | 10 | A-3a (0)           | 160        |              |
|  |       | 7      | 10          | 16              | 28         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-3a (V)           | -          |              |
|  |       | EOB    | 5           | 6               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-080-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 959.9 (NAVD88) EOB: 7.5 ft. | PAGE: 1 OF 1               |
| START: 11/19/19 END: 11/19/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.623849, -81.361840      |                            |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS  | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|---------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |         |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.0") & CONCRETE (9.0")  | 959.9 |         |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, DAMP                         | 958.7 | W 957.6 |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       |         | 14          | 58              | 89         | SS-1         | -           | 29            | 11 | 38 | 15 | 7  | NP        | NP | NP | 9  | A-2-4 (0)          | 1100       |              |
|   |       |         | 18          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       |         | 22          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 955.4 |         | 16          | 58              | -          | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |
|   |       |         | 20          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, REDDISH BROWN, <b>COARSE AND FINE SAND</b> , SOME SILT, TRACE CLAY, TRACE STONE FRAGMENTS, MOIST | 953.9 |         | 12          | 33              | 78         | SS-3         | -           | 6             | 2  | 57 | 26 | 9  | NP        | NP | NP | 16 | A-3a (0)           | 140        |              |
|   |       |         | 18          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       |         | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM STIFF, BLUEISH GRAY, <b>SILT</b> , SOME CLAY, TRACE SAND, SLIGHTLY ORGANIC (LOI = 2.3%), WET     | 952.4 | EOB     | 1           | 6               | 100        | SS-4         | 1.00        | 0             | 1  | 8  | 59 | 32 | 27        | 18 | 9  | 25 | A-4b (8)           | -          |              |
|   |       |         | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS



|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-081-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>957.3 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.624723, -81.361016</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.0") & CONCRETE (9.25")   | 957.3 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, DAMP   | 956.2 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY LOOSE, BROWN AND GRAY, <b>SANDY SILT</b> , LITTLE CLAY, TRCE STONE FRAGMENTS, SLIGHTLY ORGANIC (LOI = 2.2%), WET @4.5'; MEDIUM DENSE, BROWN AND GRAY MOTTLED | 954.3 | 2      | 10          | 28              | 67         | SS-1         | -           | 38            | 4  | 40 | 15 | 3  | NP        | NP | NP | 10 | A-2-4 (0)          | 160        |              |
|   |       | 3      | 2           | 4               | 78         | SS-2         | -           | 1             | 6  | 50 | 30 | 13 | NP        | NP | NP | 21 | A-4a (2)           | 270        |              |
|   |       | 4      | 1           | 4               | 78         | SS-2         | -           | 1             | 6  | 50 | 30 | 13 | NP        | NP | NP | 21 | A-4a (2)           | 270        |              |
|   |       | 5      | 3           | 15              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | -  | 21                 | A-4a (V)   | -            |
|   |       | 6      | 3           | 15              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | -  | 21                 | A-4a (V)   | -            |
|   | 949.8 | 7      | 5           | 13              | 89         | SS-4         | -           | 0             | 0  | 53 | 32 | 15 | NP        | NP | NP | 20 | A-4a (2)           | -          |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-082-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>954.3 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.625695, -81.360302</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.0") & CONCRETE (9.0")  | 954.3 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 953.2 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>COARSE AND FINE SAND</b> , LITTLE SILT, LITTLE STONE FRAGMENTS, TRACE CLAY, DAMP |       | 2      | 11          | 49              | 67         | SS-1         | -           | 19            | 9  | 43 | 20 | 9  | NP        | NP | NP | 9  | A-3a (0)           | 250        |              |
|   |       | 3      | 12          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 949.8 | 4      | 16          | 38              | 67         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-3a (V)           | 130        |              |
|   |       | 5      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM STIFF, GRAY AND BROWN MOTTLED, <b>SILT</b> , SOME SAND, SOME CLAY, WET                     |       | 6      | 3           | 7               | 44         | SS-3         | 1.00        | -             | -  | -  | -  | -  | -         | -  | -  | 23 | A-4b (V)           | -          |              |
|   |       | 7      | 1           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 946.8 | 7      | 2           | 7               | 100        | SS-4         | 1.00        | 0             | 1  | 26 | 53 | 20 | 22        | 15 | 7  | 21 | A-4b (8)           | <100       |              |
|   |       | EOB    | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-083-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>952.2 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.626650, -81.359624</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.0") & CONCRETE (9.25")  | 952.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>COARSE AND FINE SAND</b> ,<br>TRACE SILT, TRACE CLAY, TRACE STONE<br>FRAGMENTS, DAMP<br>@3.0'; LOOSE | 951.0 | 1      | 9           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 2      | 10          | 23              | 89         | SS-1         | -           | 1             | 7  | 79 | 8  | 5  | NP        | NP | NP | 7  | A-3a (0)           | 140        |              |
|  |       | 3      | 6           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 4      | 4           | 10              | 78         | SS-2         | -           | 5             | 30 | 52 | 8  | 5  | NP        | NP | NP | 8  | A-3a (0)           | 130        |              |
|  |       | 5      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 6      | 3           | 10              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-3a (V)           | -          |              |
| @6.0'; MOIST   |       | 7      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 944.7 | EOB    | 2           | 6               | 78         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 20 | A-3a (V)           | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-084-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>950.9 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.627700, -81.359123</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (5.25") & CONCRETE (8.75")  | 950.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL WITH SAND</b> ,<br>TRACE SILT, TRACE CLAY, DAMP                                      | 949.7 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 2      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>COARSE AND FINE SAND</b> ,<br>SOME GRAVEL, LITTLE SILT, TRACE CLAY, DAMP                    | 947.9 | 3      | 9           | 28              | 78         | SS-1         | -           | 38            | 22 | 28 | 7  | 5  | NP        | NP | NP | 9  | A-1-b (0)          | 390        |              |
|   |       | 4      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| LOOSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS<br/>WITH SAND</b> , TRACE SILT, TRACE CLAY, DAMP<br>@6.0'; MEDIUM DENSE | 946.4 | 5      | 6           | 16              | 89         | SS-2         | -           | 23            | 21 | 41 | 11 | 4  | NP        | NP | NP | 11 | A-3a (0)           | 290        |              |
|   |       | 6      | 4           | 5               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 7      | 4           | 10              | 78         | SS-3         | -           | 48            | 29 | 14 | 6  | 3  | NP        | NP | NP | 8  | A-1-b (0)          | -          |              |
|   |       | EOB    | 4           | 3               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 943.4 |        | 5           | 20              | 61         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-1-b (V)          | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-085-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>950.2 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.628722, -81.358616</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (4.25") & CONCRETE (9.5")   | 950.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, DAMP | 949.0 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 2      | 7           | 17              | 89         | SS-1         | -           | 31            | 23 | 34 | 7  | 5  | NP        | NP | NP | 9  | A-1-b (0)          | 350        |              |
|   |       | 3      | 5           | 13              | 94         | SS-2         | -           | 30            | 37 | 21 | 6  | 6  | NP        | NP | NP | 9  | A-1-b (0)          | 360        |              |
|   |       | 4      | 5           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 5      | 5           | 6               | 17         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-1-b (V)          | -          |              |
|   |       | 6      | 6           | 6               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 7      | 6           | 5               | 15         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|   | 942.7 | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-086-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 949.6 (NAVD88) EOB: 7.5 ft. | PAGE: 1 OF 1               |
| START: 11/20/19 END: 11/20/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.629798, -81.358307      |                            |

| MATERIAL DESCRIPTION AND NOTES  | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|---|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|---------|-----------|
|   |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |         |           |
| ASPHALT (5.5") & CONCRETE (8.75")   | 949.6 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| DENSE, BROWN, COARSE AND FINE SAND, LITTLE GRAVEL AND STONE FRAGMENTS, LITTLE SILT, LITTLE CLAY, DAMP | 948.4 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| @3.0'; MEDIUM DENSE, TRACE GRAVEL AND STONE FRAGMENTS   |       | 2      | 11      | 36              | 67      | SS-1      | -        | 13            | 27 | 37 | 12 | 11 | NP        | NP | NP | 8  | A-3a (0)        | 690     |           |
| @4.5'; DENSE  |       | 3      | 7       | 19              | 50      | SS-2      | -        | 1             | 34 | 42 | 11 | 12 | NP        | NP | NP | 8  | A-3a (0)        | 630     |           |
| @6.0'; VERY DENSE   |       | 4      | 8       | 49              | 100     | SS-3      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 7  | A-3a (V)        | -       |           |
|   |       | 5      | 4       | 57              | 56      | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 7  | A-3a (V)        | -       |           |
|   | 942.1 | 6      | 37      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|   |       | 7      | 21      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|   |       | EOB    | 18      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-087-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>950.9 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.630857, -81.357969</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (4.0") & CONCRETE (9.25")   | 950.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>COARSE AND FINE SAND</b> , LITTLE GRAVEL AND STONE FRAGMENTS, LITTLE SILT, LITTLE CLAY, DAMP<br>@3.0'; MEDIUM DENSE, REDDISH BROWN | 949.8 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 2      | 17          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 3      | 19<br>14    | 48              | 100        | SS-1         | -           | 19            | 24 | 37 | 10 | 10 | NP        | NP | NP | 7  | A-3a (0)           | 510        |              |
|   |       | 4      | 9<br>8      | 23              | 100        | SS-2         | -           | 10            | 22 | 43 | 13 | 12 | NP        | NP | NP | 9  | A-3a (0)           | 120        |              |
|   |       | 5      | 12<br>7     | 23              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 7  | A-3a (V)           | -          |              |
| @6.0'; TRACE CLAY, TRACE STONE FRAGMENTS  |       | 6      | 7           | 9               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 943.4 | 7      | 11          | 23              | 22         | SS-4         | -           | 1             | 22 | 58 | 13 | 6  | NP        | NP | NP | 5  | A-3a (0)           | -          |              |
|   |       | EOB    | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-088-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>953.1 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.631954, -81.357763</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD    | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC       | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|----------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----------|--------------------|------------|--------------|
|   |       |        |                |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |          |                    |            |              |
| ASPHALT (5.25") & CONCRETE (8.75")  | 953.1 |        |                |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
| VERY DENSE, BROWN, <b>COARSE AND FINE SAND</b> ,<br>SOME STONE FRAGMENTS, LITTLE SILT, TRACE<br>CLAY, DAMP<br>@3.0'; LITTLE CLAY, TRACE STONE FRAGMENTS | 951.9 | 1      |                |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   |       | 2      | 16<br>32<br>28 | 87              | 33         | SS-1         | -           | 20            | 13 | 43 | 15 | 9  | NP        | NP | NP | 7        | A-3a (0)           | 130        |              |
|   |       | 3      | 26<br>27<br>22 | 71              | 39         | SS-2         | -           | 1             | 16 | 50 | 20 | 13 | NP        | NP | NP | 7        | A-3a (0)           | 110        |              |
|   |       | 4      | 18<br>20       | 51              | 56         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8        | A-3a (V)           | -          |              |
| @6.0'; MEDIUM DENSE   | 945.6 | 5      | 9<br>15        | 23              | 28         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | 8  | A-3a (V) | -                  |            |              |
|   |       | 6      | 8              |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   |       | 7      | 8              |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |
|   |       | EOB    |                |                 |            |              |             |               |    |    |    |    |           |    |    |          |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS



|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-089-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 954.2 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/20/19 END: 11/20/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.632605, -81.357537      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (6.0") & CONCRETE (9.0")  | 954.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, DAMP                   | 952.9 | 1      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 2      | 11          | 32              | 78         | SS-1         | -           | 28            | 21 | 30 | 12 | 9  | NP        | NP | NP | 8  | A-1-b (0)          | 270        |              |
|   | 951.2 | 3      | 17          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 4      | 14          | 33              | 100        | SS-2         | -           | 6             | 40 | 33 | 12 | 9  | NP        | NP | NP | 7  | A-3a (0)           | 230        |              |
| DENSE, BROWN, <b>COARSE AND FINE SAND</b> , LITTLE SILT, TRACE CLAY, TRACE GRAVEL AND STONE FRAGMENTS, DAMP |       | 5      | 7           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @4.5'; MEDIUM DENSE, BROWN AND YELLOWISH BROWN  |       | 6      | 7           | 20              | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 7  | A-3a (V)           | -          |              |
| @6.0'; YELLOWISH BROWN  |       | 7      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 946.7 | 7      | 4           | 12              | 100        | SS-4         | -           | 3             | 45 | 32 | 12 | 8  | NP        | NP | NP | 7  | A-3a (0)           | -          |              |
|   |       | EOB    | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-090-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>955.9 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.633512, -81.357341</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (4.5") & CONCRETE (9.0")   | 955.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, DAMP | 954.8 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @3.0'; MEDIUM DENSE, LITTLE SILT   |       | 2      | 15          | 42              | 67         | SS-1         | -           | 43            | 23 | 18 | 9  | 7  | NP        | NP | NP | 10 | A-1-b (0)          | 660        |              |
| @4.5'; DENSE   |       | 3      | 10          | 28              | 78         | SS-2         | -           | 40            | 15 | 21 | 14 | 10 | NP        | NP | NP | 9  | A-1-b (0)          | 330        |              |
|  |       | 4      | 9           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 5      | 14          | 33              | 100        | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|  |       | 6      | 12          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 7      | 15          | 42              | 100        | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-1-b (V)          | -          |              |
|  | 948.4 | EOB    | 14          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-091-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 958.1 (NAVD88) EOB: 8.0 ft. | PAGE<br>1 OF 1               |
| START: 11/20/19 END: 11/20/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.634573, -81.357010      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.25") & CONCRETE (9.25")   | 958.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 956.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN, GRAVEL AND STONE<br>FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY,<br>DAMP<br>@3.5'; DENSE |       | 2      | 16          | 55              | 44         | SS-1         | -           | 46            | 12 | 24 | 11 | 7  | NP        | NP | NP | 10 | A-1-b (0)          | 400        |              |
|  |       | 3      | 20<br>18    |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @5.0'; MEDIUM DENSE  |       | 4      | 16<br>14    | 38              | 50         | SS-2         | -           | 46            | 17 | 17 | 12 | 8  | NP        | NP | NP | 9  | A-1-b (0)          | 410        |              |
|  |       | 5      | 12          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| @6.5'; BROWN AND GRAY, SLIGHTLY ORGANIC (LOI =<br>3.9%) WITH WOOD FRAGMENTS, DAMP TO MOIST                   |       | 6      | 8           | 29              | 67         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-1-b (V)          | -          |              |
|  |       | 7      | 10<br>10    |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 950.1 | 8      | 5<br>8      | 29              | 100        | SS-4         | -           | 36            | 20 | 20 | 14 | 10 | 22        | 16 | 6  | 13 | A-1-b (0)          | -          |              |
|  |       | EOB    | 12          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-092-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / MCLEISH</u> | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>959.9 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/20/19</u> END: <u>11/20/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.635669, -81.356802</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |   |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|---|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |   |
| ASPHALT (8.75") & CONCRETE (9.25")   | 959.9 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |   |
| VERY DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, DAMP | 958.4 | 2      | 9           | 22              | 65         | 56           | SS-1        | -             | 31 | 19 | 30 | 12 | 8         | NP | NP | NP | 8                  | A-1-b (0)  | 2100         |   |
|  |       | 3      | 19          | 15              | 52         | 83           | SS-2        | -             | 27 | 26 | 28 | 12 | 7         | NP | NP | NP | 7                  | A-1-b (0)  | 830          |   |
|  |       | 4      | 21          | 26              | 45         | -            | 33          | SS-3          | -  | -  | -  | -  | -         | -  | -  | -  | -                  | 6          | A-1-b (V)    | - |
|  |       | 5      | 26          | 45              | -          | 33           | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  | -  | -                  | 6          | A-1-b (V)    | - |
| @5.5' - 6.0'; ENCOUNTERED BOULDERS/COBBLES   | 952.4 | 6      | 11          | 8               | 22         | 61           | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 5                  | A-1-b (V)  | -            |   |
| @6.0'; MEDIUM DENSE  |       | 7      | 8           | 7               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |   |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |   |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 7 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-093-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / MCLEISH | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 962.6 (NAVD88) EOB: 8.0 ft. | PAGE: 1 OF 1               |
| START: 11/20/19 END: 11/20/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.636729, -81.356470      |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|---------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |         |           |
| ASPHALT (9.0") & CONCRETE (10.0")  | 962.6 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP<br>@3.5'; MEDIUM DENSE    | 961.0 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  |       | 2      | 20      | 38              | 78      | SS-1      | -        | 35            | 16 | 26 | 12 | 11 | 20        | 13 | 7  | 10 | A-2-4 (0)       | 1100    |           |
|  |       | 3      | 16      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  |       | 4      | 10      | 22              | 28      | SS-2      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-2-4 (V)       | -       |           |
|  | 957.6 | 5      | 9       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP<br>@6.5'; DENSE |       | 6      | 6       | 22              | 78      | SS-3      | -        | 42            | 16 | 21 | 16 | 5  | NP        | NP | NP | 9  | A-1-b (0)       | 420     |           |
|  |       | 7      | 5       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 954.6 | 8      | 7       | 32              | 89      | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)       | -       |           |
|  |       | EOB    | 11      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-094-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>   | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>964.3 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/25/19</u> END: <u>11/25/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.637814, -81.356233</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD   | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|---------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |               |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.0") & CONCRETE (9.0")   | 964.3 |        |               |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, DAMP @3.0'; MEDIUM DENSE | 962.8 | 1      |               |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 2      | 7             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 3      | 17<br>22      | 57              | 33         | SS-1         | -           | 29            | 18 | 26 | 19 | 8  | NP        | NP | NP | 9  | A-2-4 (0)          | 210        |              |
|  |       | 4      | 15<br>11<br>8 | 28              | 22         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-2-4 (V)          | -          |              |
|  |       | 5      | 7<br>5        | 15              | 67         | SS-3         | -           | 57            | 16 | 12 | 9  | 6  | 22        | 15 | 7  | 8  | A-2-4 (0)          | 300        |              |
|  |       | 6      | 5             | 5               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 956.8  | 7             | 4               | 13         | 89           | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |
|  |       | EOB    |               |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-095-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / LEWIS   | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 967.0 (NAVD88) EOB: 7.5 ft. | PAGE: 1 OF 1               |
| START: 11/25/19 END: 11/25/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.639015, -81.355878      |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | SO4 ppm | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|---------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |         |           |
| ASPHALT (9.0") & CONCRETE (9.0")   | 967.0 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| DENSE, GRAYISH BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP         | 965.5 | 1      | 8       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
|  | 964.0 | 2      | 12      | 36              | 78      | SS-1      | -        | 29            | 13 | 27 | 21 | 10 | 18        | 13 | 5  | 8  | A-2-4 (0)       | 290     |           |
|  | 964.0 | 3      | 10      | 13              |         |           |          |               |    |    |    |    |           |    |    |    |                 |         |           |
| HARD, REDDISH BROWN AND GRAY, SANDY SILT, SOME CLAY, TRACE GRAVEL AND STONE FRAGMENTS, DAMP    | 962.5 | 4      | 11      | 29              | 100     | SS-2      | 4.5+     | 2             | 6  | 19 | 48 | 25 | 24        | 16 | 8  | 15 | A-4a (8)        | 210     |           |
|  | 962.5 | 5      | 9       | 7               | 20      | SS-3      | -        | 11            | 9  | 65 | 9  | 6  | NP        | NP | NP | 8  | A-3a (0)        | -       |           |
| MEDIUM DENSE, REDDISH BROWN, COARSE AND FINE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP | 959.5 | 6      | 6       | 7               | 20      | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 6  | A-3a (V)        | -       |           |
|  | 959.5 | 7      | 7       | 7               | 20      | SS-4      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 6  | A-3a (V)        | -       |           |

EOB

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-096-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / LEWIS   | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 967.7 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/25/19 END: 11/25/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.640098, -81.355665      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (8.0") & CONCRETE (9.25")  | 967.7 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP  | 966.3 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, DAMP  | 964.7 | 2      | 14          | 46              | 78         | SS-1         | -           | 45            | 21 | 16 | 14 | 4  | 18        | 15 | 3  | 9  | A-1-b (0)          | 260        |              |
|  |       | 3      | 8           | 15              |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 4      | 15          | 49              | 89         | SS-2         | -           | 36            | 11 | 19 | 29 | 5  | 17        | 14 | 3  | 10 | A-2-4 (0)          | 280        |              |
|  |       | 5      | 8           | 19              |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 961.7 | 6      | 10          | 38              | 78         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-2-4 (V)          | -          |              |
|  |       | 7      | 4           | 16              |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN AND GRAY, SANDY SILT, SOME CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, SLIGHTLY ORGANIC (LOI = 2.6%), MOIST | 960.2 | EOB    | 4           | 12              | 78         | SS-4         | 3.00        | 15            | 6  | 13 | 46 | 20 | 25        | 15 | 10 | 19 | A-4a (6)           | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS



|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-097-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / LEWIS   | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 967.3 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/25/19 END: 11/25/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.641163, -81.355329      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (8.5") & CONCRETE (9.5")  | 967.3 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, DAMP                         | 965.8 | 1      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 964.3 | 2      | 12          | 36              | 56         | SS-1         | -           | 44            | 17 | 19 | 14 | 6  | NP        | NP | NP | 8  | A-1-b (0)          | 430        |              |
| STIFF, YELLOWISH BROWN, <b>SILT AND CLAY</b> , SOME SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST                 | 962.8 | 3      | 7           | 17              | 67         | SS-2         | 1.50        | 3             | 6  | 22 | 42 | 27 | 27        | 15 | 12 | 16 | A-6a (8)           | <100       |              |
|   | 962.8 | 4      | 6           | 6               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>COARSE AND FINE SAND</b> , SOME GRAVEL AND STONE FRAGMENTS, LITTLE SILT, TRACE CLAY, DAMP |       | 5      | 6           | 5               | 17         | SS-3         | -           | 24            | 21 | 34 | 12 | 9  | NP        | NP | NP | 12 | A-3a (0)           | -          |              |
|   |       | 6      | 5           | 7               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 959.8 | 7      | 5           | 7               | 17         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-3a (V)           | -          |              |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-098-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>   | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>965.5 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/25/19</u> END: <u>11/25/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.642244, -81.355089</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.0") & CONCRETE (9.0")   | 965.5 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, DAMP        | 964.0 | 1      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, DAMP            | 962.5 | 2      | 15<br>17    | 46              | 56         | SS-1         | -           | 41            | 29 | 15 | 11 | 4  | NP        | NP | NP | 6  | A-1-b (0)          | <100       |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, DAMP | 961.0 | 3      | 17<br>13    | 38              | 89         | SS-2         | -           | 34            | 18 | 18 | 20 | 10 | 20        | 14 | 6  | 9  | A-2-4 (0)          | 140        |              |
|  |       | 4      | 9<br>7      | 19              | 89         | SS-3         | -           | 44            | 28 | 10 | 12 | 6  | NP        | NP | NP | 7  | A-1-b (0)          | -          |              |
|  |       | 5      | 7<br>6      | 6               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 6      | 7<br>6      | 17              | 78         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|  | 958.0 | 7      | 6<br>6      | 6               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-099-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / LEWIS   | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 963.8 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/25/19 END: 11/25/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.643311, -81.354757      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (8.5") & CONCRETE (9.5")   | 963.8 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS, SOME SAND, TRACE SILT, TRACE CLAY, DAMP | 962.3 | 2      | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  | 960.8 | 3      | 8           | 25              | 56         | SS-1         | -           | 54            | 17 | 17 | 8  | 4  | NP        | NP | NP | 7  | A-1-a (0)          | 160        |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, MOIST   |       | 4      | 7           | 16              | 67         | SS-2         | -           | 54            | 11 | 9  | 6  | 20 | NP        | NP | NP | 15 | A-2-4 (0)          | <100       |              |
|  |       | 5      | 5           | 17              | 67         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 11 | A-2-4 (V)          | -          |              |
| @6.0'; DAMP  |       | 6      | 4           | 12              | 44         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-2-4 (V)          | -          |              |
|  | 956.3 | 7      | 4           | 12              | 44         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-2-4 (V)          | -          |              |
|  |       | EOB    | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-100-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / LEWIS   | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 962.0 (NAVD88) EOB: 7.5 ft. | PAGE: 1 OF 1               |
| START: 11/25/19 END: 11/25/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.644402, -81.354551      |                            |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC        | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|-----------|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |           |                    |            |              |
| ASPHALT (8.75") & CONCRETE (8.75")   | 962.0 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
| VERY DENSE, BROWN, <b>GRAVEL AND STONE<br/>FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY,<br>DAMP<br><br>@4.5'; DENSE<br><br>@6.0'; MEDIUM DENSE | 960.5 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  |       | 2      | 13          | 52              | 89         | SS-1         | -           | 45            | 22 | 18 | 10 | 5  | NP        | NP | NP | 6         | A-1-b (0)          | <100       |              |
|  |       | 3      | 18          |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  |       | 4      | 31          | 57              | 33         | SS-2         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 6         | A-1-b (V)          | -          |              |
|  |       | 5      | 24          |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  |       | 6      | 15          |                 |            |              |             |               |    |    |    |    |           |    |    |           |                    |            |              |
|  |       | 7      | 12          | 32              | 67         | SS-3         | -           | 54            | 15 | 11 | 17 | 3  | NP        | NP | NP | 10        | A-1-b (0)          | <100       |              |
|  | 954.5 | EOB    | 9           | 30              | 78         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | 7  | A-1-b (V) | -                  |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|                               |  |                          |  |                              |
|-------------------------------|--|--------------------------|--|------------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID<br>B-101-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / LEWIS   | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                              |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 960.5 (NAVD88) EOB: 7.5 ft. | PAGE<br>1 OF 1               |
| START: 11/25/19 END: 11/25/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.645466, -81.354213      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.0") & CONCRETE (9.0")  | 960.5 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, SILT, AND CLAY, DAMP   | 959.0 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN AND GRAY, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, SLIGHTLY ORGANIC (LOI = 2.2%), MOIST @4.5'; STIFF | 957.5 | 2      | 4           | 10              | 26         | 44           | SS-1        | -             | 37 | 11 | 17 | 23 | 12        | 25 | 12 | 13 | 11                 | A-2-6 (1)  | 230          |
|   |       | 3      | 5           | 4               | 12         | 78           | SS-2        | 2.50          | 7  | 4  | 16 | 49 | 24        | 27 | 16 | 11 | 19                 | A-6a (8)   | 260          |
| MEDIUM DENSE, BROWN, GRAVEL WITH SAND, TRACE SILT, TRACE CLAY, MOIST @6.0'; LOOSE, DAMP                                 | 955.2 | 4      | 3           | 4               | 15         | 89           | SS-3A       | 1.00          | -  | -  | -  | -  | -         | -  | -  | -  | 15                 | A-6a (V)   | -            |
|   |       | 5      | 5           | 5               | 15         | 89           | SS-3B       | -             | -  | -  | -  | -  | -         | -  | -  | -  | 12                 | A-1-b (V)  | -            |
| EOB   | 953.0 | 6      | 4           | 3               | 9          | 44           | SS-4        | -             | 38 | 23 | 29 | 6  | 4         | NP | NP | NP | 8                  | A-1-b (0)  | -            |
|   |       | 7      | 3           | 3               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                               |  |                          |  |                            |
|-------------------------------|--|--------------------------|--|----------------------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET: _____                | EXPLORATION ID: B-102-0-19 |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / LEWIS   | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        |                            |
| PID: 100603 SFN: _____        | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 958.5 (NAVD88) EOB: 7.5 ft. | PAGE: 1 OF 1               |
| START: 11/25/19 END: 11/25/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.646544, -81.353978      |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | ODOT CLASS (GI) | SO4 ppm   | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|-----------------|-----------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |                 |           |           |
| ASPHALT (8.0") & CONCRETE (9.0")   | 958.5 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |           |
| DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP                             | 957.1 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |           |
|  |       | 2      | 10      | 36              | 56      | SS-1      | -        | 43            | 13 | 20 | 14 | 10 | 20        | 13 | 7  | 9               | A-2-4 (0) | 250       |
|  |       | 3      | 10      | 38              | 44      | SS-2      | -        | -             | -  | -  | -  | -  | -         | -  | -  | 9               | A-2-4 (V) | -         |
| MEDIUM STIFF, GRAYISH BROWN, SILT AND CLAY, SOME SAND, LITTLE GRAVEL, SLIGHTLY ORGANIC (LOI = 2.2%), MOIST | 954.0 | 4      | 14      | 38              | 44      | SS-2      | -        | -             | -  | -  | -  | -  | -         | -  | 9  | A-2-4 (V)       | -         |           |
|  | 952.5 | 5      | 4       | 9               | 44      | SS-3      | 0.50     | 13            | 9  | 18 | 35 | 25 | 25        | 14 | 11 | 20              | A-6a (5)  | 220       |
| MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP                      | 951.0 | 6      | 8       | 3               | 3       |           |          |               |    |    |    |    |           |    |    |                 |           |           |
|  |       | 7      | 6       | 17              | 78      | SS-4      | -        | 36            | 18 | 21 | 14 | 11 | 24        | 14 | 10 | 12              | A-2-4 (0) | -         |
|  |       | EOB    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |           |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-103-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>   | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>956.9 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/26/19</u> END: <u>11/26/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.647611, -81.353645</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (8.5") & CONCRETE (9.5")  | 956.9 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, DAMP | 955.4 | 1      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>COARSE AND FINE SAND</b> , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP  | 953.9 | 2      | 9           | 28              | 56         | SS-1         | -           | 47            | 21 | 18 | 8  | 6  | NP        | NP | NP | 8  | A-1-b (0)          | <100       |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, DAMP | 952.4 | 3      | 6           | 10              |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>COARSE AND FINE SAND</b> , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP  | 952.4 | 4      | 5           | 13              | 44         | SS-2         | -           | 16            | 11 | 56 | 8  | 9  | NP        | NP | NP | 12 | A-3a (0)           | <100       |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, DAMP |       | 5      | 5           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, DAMP |       | 6      | 5           | 6               | 16         | 44           | SS-3        | -             | -  | -  | -  | -  | -         | -  | -  | 9  | A-1-b (V)          | -          |              |
|   |       | 7      | 6           | 4               | 12         | 56           | SS-4        | -             | 49 | 25 | 15 | 6  | 5         | NP | NP | NP | 11                 | A-1-b (0)  | -            |
|   | 949.4 | EOB    | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-104-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>   | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>955.1 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/26/19</u> END: <u>11/26/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.648693, -81.353434</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.0") & CONCRETE (9.0")  | 955.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>COARSE AND FINE SAND</b> ,<br>LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP | 953.6 | 2      | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 952.1 | 3      | 10          | 29              | 56         | SS-1         | -           | 17            | 16 | 56 | 7  | 4  | NP        | NP | NP | 7  | A-3a (0)           | <100       |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE<br/>FRAGMENTS WITH SAND, SILT, AND CLAY</b> , DAMP       |       | 4      | 7           | 17              | 78         | SS-2         | -           | 51            | 20 | 15 | 8  | 6  | 25        | 14 | 11 | 9  | A-2-6 (0)          | 340        |              |
|   |       | 5      | 6           | 16              | 67         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-2-6 (V)          | -          |              |
|   |       | 6      | 6           | 16              | 67         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 8  | A-2-6 (V)          | -          |              |
|   | 947.6 | 7      | 7           | 28              | 78         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 7  | A-2-6 (V)          | -          |              |
|   |       | EOB    | 12          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS



|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-105-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>   | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>955.1 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/26/19</u> END: <u>11/26/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.649761, -81.353103</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (8.75") & CONCRETE (9.25")  | 955.1 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, <b>COARSE AND FINE SAND</b> , SOME GRAVEL AND STONE FRAGMENTS, LITTLE SILT, LITTLE CLAY, DAMP | 953.6 | 1      | 5           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| MEDIUM DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE CLAY, TRACE SILT, DAMP             | 952.1 | 2      | 12          | 33              | 67         | SS-1         | -           | 25            | 12 | 38 | 12 | 13 | 20        | 16 | 4  | 10 | A-3a (0)           | 150        |              |
|   |       | 3      | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 4      | 7           | 17              | 56         | SS-2         | -           | 25            | 32 | 33 | 4  | 6  | NP        | NP | NP | 9  | A-1-b (0)          | 130        |              |
|   |       | 5      | 4           | 5               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 6      | 4           | 4               | 12         | SS-3         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 12 | A-1-b (V)          | -          |              |
|   |       | 7      | 4           | 4               |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   | 947.6 | EOB    | 3           | 12              | 56         | SS-4         | -           | -             | -  | -  | -  | -  | -         | -  | -  | 10 | A-1-b (V)          | -          |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|   |   |                                 |  |                              |
|---|---|---------------------------------|--|------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br>B-106-0-19 |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>   | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                              |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>956.8 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br>1 OF 1               |
| START: <u>11/26/19</u> END: <u>11/26/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.650842, -81.352867</u>             |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |      |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |   |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|------|----|----|----|-----------|----|----|----|--------------------|------------|--------------|---|
|  |       |        |             |                 |            |              |             | GR            | CS   | FS | SI | CL | LL        | PL | PI |    |                    |            |              |   |
| ASPHALT (8.75") & CONCRETE (9.25")   | 956.8 |        |             |                 |            |              |             |               |      |    |    |    |           |    |    |    |                    |            |              |   |
| DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, DAMP                 | 955.3 | 1      |             |                 |            |              |             |               |      |    |    |    |           |    |    |    |                    |            |              |   |
| HARD, BROWN AND GRAY, <b>SANDY SILT</b> , SOME GRAVEL, LITTLE CLAY, DAMP<br><br>@4.5'; VERY STIFF, MOIST | 953.8 | 2      | 6           | 17              | 48         | 56           | SS-1        | -             | 47   | 24 | 17 | 7  | 5         | NP | NP | NP | 8                  | A-1-b (0)  | 110          |   |
|  |       | 3      | 8           | 13              | 41         | 78           | SS-2        | 4.5+          | 27   | 13 | 18 | 28 | 14        | 22 | 15 | 7  | 13                 | A-4a (1)   | 150          |   |
| STIFF, BROWN, <b>SILT</b> , SOME CLAY, LITTLE SAND, TRACE GRAVEL, MOIST                                  | 950.8 | 4      | 9           | 7               | 25         | 89           | SS-3        | 3.50          | -    | -  | -  | -  | -         | -  | -  | -  | 15                 | A-4a (V)   | -            |   |
|  |       | 5      | 10          | 6               | 5          | 15           | 89          | SS-4          | 1.50 | 2  | 4  | 12 | 51        | 31 | 31 | 22 | 9                  | 23         | A-4b (8)     | - |
|  | 949.3 | 6      |             |                 |            |              |             |               |      |    |    |    |           |    |    |    |                    |            |              |   |
|  |       | 7      |             |                 |            |              |             |               |      |    |    |    |           |    |    |    |                    |            |              |   |
|  |       | EOB    |             |                 |            |              |             |               |      |    |    |    |           |    |    |    |                    |            |              |   |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

|   |   |                                 |  |                                     |
|---|---|---------------------------------|--|-------------------------------------|
| PROJECT: <u>TUS-800-22.74</u>               | DRILLING FIRM / OPERATOR: <u>ODOT / CAREY</u> | DRILL RIG: <u>CME 55 TRUCK</u>  | STATION / OFFSET: _____                              | EXPLORATION ID<br><u>B-107-0-19</u> |
| TYPE: <u>ROADWAY</u>                        | SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>   | HAMMER: <u>CME AUTOMATIC</u>    | ALIGNMENT: <u>CENTERLINE OF SR 800</u>               |                                     |
| PID: <u>100603</u> SFN: _____               | DRILLING METHOD: <u>3.5" SSA</u>              | CALIBRATION DATE: <u>4/2/18</u> | ELEVATION: <u>958.6 (NAVD88)</u> EOB: <u>7.5 ft.</u> | PAGE<br><u>1 OF 1</u>               |
| START: <u>11/26/19</u> END: <u>11/26/19</u> | SAMPLING METHOD: <u>SPT</u>                   | ENERGY RATIO (%): <u>87</u>     | LAT / LONG: <u>40.651918, -81.352588</u>             |                                     |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|---|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|   |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (9.0") & CONCRETE (9.0")  | 958.6 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY DENSE, BROWN, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, DAMP @3.0'; DENSE | 957.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|   |       | 2      | 9           | 20              | 57         | 33           | SS-1        | -             | 46 | 17 | 16 | 13 | 8         | 19 | 14 | 5  | 6                  | A-1-b (0)  | <100         |
|   |       | 3      | 14          | 15              | 35         | 22           | SS-2        | -             | -  | -  | -  | -  | -         | -  | -  | -  | 11                 | A-1-b (V)  | -            |
| VERY STIFF, BROWN AND GRAY, <b>SANDY SILT</b> , SOME GRAVEL AND STONE FRAGMENTS, LITTLE CLAY, MOIST         | 954.1 | 4      | 8           | 7               | 20         | 67           | SS-3        | 2.00          | 23 | 13 | 13 | 31 | 20        | 26 | 17 | 9  | 17                 | A-4a (3)   | 140          |
|   | 952.6 | 5      | 8           | 7               | 20         | 67           | SS-3        | 2.00          | 23 | 13 | 13 | 31 | 20        | 26 | 17 | 9  | 17                 | A-4a (3)   | 140          |
| MEDIUM STIFF, BROWN AND GRAY, <b>SILT</b> , SOME CLAY, LITTLE SAND, MOIST                                   | 951.1 | 6      | 2           | 2               | 7          | 100          | SS-4        | 0.50          | 0  | 4  | 6  | 54 | 36        | 30 | 20 | 10 | 26                 | A-4b (8)   | -            |
|   |       | 7      | 2           | 3               | 7          | 100          | SS-4        | 0.50          | 0  | 4  | 6  | 54 | 36        | 30 | 20 | 10 | 26                 | A-4b (8)   | -            |
|   |       | EOB    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

|                               |  |                          |  |                |
|-------------------------------|--|--------------------------|--|----------------|
| PROJECT: TUS-800-22.74        | DRILLING FIRM / OPERATOR: ODOT / CAREY | DRILL RIG: CME 55 TRUCK  | STATION / OFFSET:                      | EXPLORATION ID |
| TYPE: ROADWAY                 | SAMPLING FIRM / LOGGER: ODOT / LEWIS   | HAMMER: CME AUTOMATIC    | ALIGNMENT: CENTERLINE OF SR 800        | B-108-0-19     |
| PID: 100603 SFN:              | DRILLING METHOD: 3.5" SSA              | CALIBRATION DATE: 4/2/18 | ELEVATION: 959.5 (NAVD88) EOB: 7.5 ft. | PAGE           |
| START: 11/26/19 END: 11/26/19 | SAMPLING METHOD: SPT                   | ENERGY RATIO (%): 87     | LAT / LONG: 40.652477, -81.352404      | 1 OF 1         |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | SO4<br>ppm | BACK<br>FILL |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|------------|--------------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |            |              |
| ASPHALT (8.0") & CONCRETE (9.0")   | 959.5 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SAND, TRACE CLAY, DAMP          | 958.1 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
| VERY STIFF, BROWN AND GRAY, SANDY SILT, SOME GRAVEL AND STONE FRAGMENTS, LITTLE CLAY, DAMP | 956.5 | 2      | 6           | 33              | 33         | SS-1         | -           | 39            | 23 | 22 | 10 | 6  | NP        | NP | NP | 10 | A-1-b (0)          | 300        |              |
|  |       | 3      | 8           | 29              | 44         | SS-2         | 3.50        | 24            | 14 | 16 | 30 | 16 | 23        | 16 | 7  | 13 | A-4a (2)           | 130        |              |
| @6.0'; VERY SOFT, WET  | 952.0 | 4      | 9           | 26              | 78         | SS-3         | 2.00        | -             | -  | -  | -  | -  | -         | -  | -  | 15 | A-4a (V)           | -          |              |
|  |       | 5      | 16          | 7               | 33         | SS-4         | 0.00        | -             | -  | -  | -  | -  | -         | -  | -  | 22 | A-4a (V)           | -          |              |
|  |       | 6      | 10          |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | 7      | 2           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |
|  |       | EOB    | 3           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |            |              |

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 1/16/20 09:10 - X:\GINT\PROJECTS\2020 COMPLETE\060697.GPJ

NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM DISTRICT SURVEY GRADE INSTRUMENTS. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

HISTORICAL BORING LOGS  
TUS-800-25.10  
LANDSLIDE EXPLORATION  
2017

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC        | ODOT CLASS (GI) | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|-----------|-----------------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |           |                 |           |
| ASPHALT (12")  | 888.9 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
| DENSE, BLACK, ASPHALT GRINDINGS (FILL)   | 887.9 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 2      | 22      |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 3      | 21      | 41              | 67      | SS-1A     | -        | -             | -  | -  | -  | -  | -         | -  | 4  | A-1-b (V) |                 |           |
|  | 885.4 | 4      | 2       | 6               | 56      | SS-2A     | 1.00     | 56            | 17 | 11 | 9  | 7  | 22        | 17 | 5  | 8         | A-1-b (0)       |           |
| LOOSE, BROWN WITH BLACK, GRAVEL AND STONE FRAGMENTS WITH SAND, TRACE SILT, TRACE CLAY, WITH ASPHALT FRAGMENTS (FILL), DAMP   |       | 5      |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  | 882.9 | 6      | 3       |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
| VERY STIFF, BROWN MOTTLED WITH GRAY, SILTY CLAY, LITTLE SAND, LITTLE STONE FRAGMENTS, DAMP TO MOIST  |       | 7      | 5       | 14              | 67      | SS-3A     | 3.00     | 7             | 5  | 10 | 34 | 44 | 38        | 21 | 17 | 22        | A-6b (11)       |           |
|  |       | 8      |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
| @8.5'; HARD, BROWN AND GRAY MOTTLED  |       | 9      | 5       | 17              | 78      | SS-4A     | 4.50     | -             | -  | -  | -  | -  | -         | -  | -  | 20        | A-6b (V)        |           |
|  |       | 10     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 11     | 9       |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 12     | 9       | 12              | 30      | 89        | SS-5A    | 4.00          | -  | -  | -  | -  | -         | -  | -  | 18        | A-6b (V)        |           |
|  |       | 13     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
| @13.5'; VERY STIFF, DARK BROWN MOTTLED WITH BLACK  |       | 14     | 6       | 7               | 24      | 78        | SS-6A    | 3.50          | 15 | 6  | 13 | 31 | 35        | 38 | 19 | 19        | 20              | A-6b (10) |
|  |       | 15     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 16     | 8       | 15              | 71      | 78        | SS-7A    | 3.00          | -  | -  | -  | -  | -         | -  | -  | 17        | A-6b (V)        |           |
|  |       | 17     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 18     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 19     | 16      | 28              | 64      | 56        | SS-8A    | 3.00          | -  | -  | -  | -  | -         | -  | -  | 9         | A-6b (V)        |           |
|  |       | 20     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
| @21.0' - 24.6'; ENCOUNTERED BOULDERS/COBBLES   |       | 21     | 32      | 24              | 119     | 78        | SS-9A    | 3.00          | -  | -  | -  | -  | -         | -  | -  | 16        | A-6b (V)        |           |
|  |       | 22     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 23     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  | 864.3 | 24     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
| SANDSTONE, GRAYISH BROWN, HIGHLY TO MODERATELY WEATHERED, MODERATELY STRONG, FINE TO MEDIUM GRAINED, THICK BEDDED, MICACEOUS, BLOCKY, FAIR; RQD 83%, REC 100%.<br>@ 25.0' - 25.4'; $\gamma = 149$ pcf; $Q_u = 3,882$ psi   | 861.9 | 25     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 26     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
| SANDSTONE, GRAY WITH BROWN, MODERATELY TO SLIGHTLY WEATHERED, MODERATELY STRONG, FINE TO MEDIUM GRAINED, THICK BEDDED, MICACEOUS, BLOCKY, GOOD; RQD 14%, REC 100%.<br>@ 27.2' - 27.5'; $\gamma = 153$ pcf; $Q_u = 5,140$ psi<br>@28.7' - 29.8'; SILTSTONE, SLIGHTLY ARENACEOUS, VERY BLOCKY, FAIR<br>@29.8' - 29.9'; CLAY SEAM |       | 27     | 28      |                 | 79      | NQ2-1     |          |               |    |    |    |    |           |    |    |           | CORE            |           |
|  |       | 28     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 29     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 30     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | 31     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  | 856.4 | 32     |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |
|  |       | EOB    |         |                 |         |           |          |               |    |    |    |    |           |    |    |           |                 |           |

NOTES: HOLE DRY BEFORE CORING. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM DISTRICT SURVEY TIN.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTHS | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT CLASS (GI) | BACK FILL |
|--|-------|--------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|----|-----------------|-----------|
|  |       |        |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                 |           |
| ASPHALT (6")   | 889.0 | 1      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
| MEDIUM DENSE, DARK BROWN, <b>STONE FRAGMENTS WITH SAND</b> , TRACE SILT, TRACE CLAY, ASPHALT GRINDINGS (FILL), DAMP  | 888.5 | 2      | 7       | 10              | 26      | 33        | SS-1A    | 1.50          | 50 | 8  | 26 | 9  | 7         | NP | NP | NP | 12              | A-1-b (0) |
|  | 885.5 | 3      | 8       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
| STIFF, BROWN, <b>SILT AND CLAY</b> , LITTLE SAND, TRACE STONE FRAGMENTS, DAMP  |       | 4      | 7       | 5               | 11      | 22        | SS-2A    | 1.50          | -  | -  | -  | -  | -         | -  | -  | -  | 19              | A-6a (V)  |
|  |       | 5      | 3       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
| @6.0'; VERY STIFF, BROWN AND GRAY MOTTLED  |       | 6      | 5       | 6               | 21      | 67        | SS-3A    | 4.00          | 3  | 6  | 14 | 33 | 44        | 35 | 20 | 15 | 20              | A-6a (10) |
|  |       | 7      | 9       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
| @8.5' - 10.0'; HARD  |       | 8      |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
|  |       | 9      | 7       | 7               | 21      | 78        | SS-4A    | 4.50          | -  | -  | -  | -  | -         | -  | -  | -  | 18              | A-6a (V)  |
|  |       | 10     | 8       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
|  |       | 11     | 6       | 6               | 10      | 23        | SS-5A    | 3.00          | -  | -  | -  | -  | -         | -  | -  | -  | 21              | A-6a (V)  |
|  |       | 12     | 10      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
|  |       | 13     |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
|  |       | 14     | 4       | 5               | 20      | 78        | SS-6A    | 2.00          | -  | -  | -  | -  | -         | -  | -  | -  | 19              | A-6a (V)  |
|  |       | 15     | 9       |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
| HARD, DARK BROWN AND GRAY MOTTLED, <b>SANDY SILT</b> , SOME CLAY, LITTLE STONE FRAGMENTS, DAMP   | 873.0 | 16     | 11      | 13              | 38      | 89        | SS-7A    | 4.00          | 19 | 5  | 18 | 30 | 28        | 27 | 18 | 9  | 16              | A-4a (5)  |
|  |       | 17     | 14      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
|  |       | 18     |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
| @21.0' - 23.5'; ENCOUNTERED SANDSTONE BOULDERS/COBBLES   |       | 19     | 19      | 26              | 62      | 78        | SS-8A    | 4.50          | -  | -  | -  | -  | -         | -  | -  | -  | 12              | A-4a (V)  |
|  |       | 20     | 18      |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
|  |       | 21     | 32      | 60/4"           | -       | 83        | SS-9A    | 4.50          | -  | -  | -  | -  | -         | -  | -  | -  | 4               | A-4a (V)  |
|  |       | 22     |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
| <b>SANDSTONE</b> , GRAYISH BROWN, HIGHLY TO MODERATELY WEATHERED, MODERATELY STRONG, FINE TO MEDIUM GRAINED, THICK BEDDED, MICACEOUS, BLOCKY, FAIR; RQD 38%, REC 100%.<br>@ 23.6' - 24.0'; $\gamma = 151$ pcf; $Q_u = 4,711$ psi<br>@24.2'; VERY THIN CLAY SEAM<br>@ 24.4' - 24.7'; $\gamma = 148$ pcf; $Q_u = 3,641$ psi  | 865.5 | TR     |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
|  | 864.2 |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |
| <b>SANDSTONE</b> , GRAY WITH BROWN, MODERATELY TO SLIGHTLY WEATHERED, MODERATELY STRONG, FINE TO MEDIUM GRAINED, THICK BEDDED, MICACEOUS, BLOCKY, GOOD; RQD 63%, REC 100%.<br>@25.1'; LOW ANGLE FRACTURE<br>@26.5'; LOW ANGLE FRACTURE<br>@ 26.7' - 27.1'; $\gamma = 152$ pcf; $Q_u = 5,153$ psi<br>@26.9'; LOW ANGLE FRACTURE<br>@27.2'; LOW ANGLE FRACTURE<br>@28.2'; LOW ANGLE FRACTURE<br>@30.0' - 30.3'; FRACTURED WITH MID ANGLE FRACTURES<br>@31.4' - 31.7'; FRACTURED WITH MID ANGLE FRACTURES | 857.0 | EOB    | 50      |                 |         | 98        | NQ2-1    |               |    |    |    |    |           |    |    |    |                 | CORE      |
|  |       |        |         |                 |         |           |          |               |    |    |    |    |           |    |    |    |                 |           |

NOTES: HOLE DRY BEFORE CORING. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM DISTRICT SURVEY TIN.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

HISTORICAL BORING LOGS  
TUS-800-26.67  
RETAINING WALL EXPLORATION  
2018



|                             |   |                             |   |                            |
|-----------------------------|---|-----------------------------|---|----------------------------|
| PROJECT: TUS-800-26.67      | DRILLING FIRM / OPERATOR: ODOT / BRODIE | DRILL RIG: CME 850R TRACKED | STATION / OFFSET: 208+24, 12' RIGHT     | EXPLORATION ID: B-001-0-18 |
| TYPE: RETAINING WALL        | SAMPLING FIRM / LOGGER: ODOT / LEWIS    | HAMMER: CME AUTOMATIC       | ALIGNMENT: CENTERLINE OF SR 800         |                            |
| PID: 106997 SFN: N/A        | DRILLING METHOD: 3.75" HSA / NQ2        | CALIBRATION DATE: 6/1/17    | ELEVATION: 908.1 (NAVD88) EOB: 26.5 ft. | PAGE: 1 OF 1               |
| START: 6/11/18 END: 6/11/18 | SAMPLING METHOD: SPT                    | ENERGY RATIO (%): 81        | LAT / LONG: 40.555803, -81.417060       |                            |

| MATERIAL DESCRIPTION AND NOTES   | ELEV. | DEPTH | SPT/RQD | N <sub>60</sub> | REC (%) | SAMPLE ID | HP (tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | ODOT CLASS (GI) | BACK FILL |
|--|-------|-------|---------|-----------------|---------|-----------|----------|---------------|----|----|----|----|-----------|----|----|-----------------|-----------|
|  |       |       |         |                 |         |           |          | GR            | CS | FS | SI | CL | LL        | PL | PI |                 |           |
| ASPHALT (12") & BASE (6")  | 908.1 |       |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  | 906.6 | 1     |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
| MEDIUM DENSE, BROWN, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , TRACE CLAY, (NOT ENOUGH MATERIAL TO TEST), DAMP   | 904.6 | 2     | 5       | 14              | 22      | SS-1A     | -        | -             | -  | -  | -  | -  | -         | -  | 6  | A-2-4 (V)       |           |
|  |       | 3     | 5       |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
| VERY STIFF, BROWN AND GRAY, <b>SANDY SILT</b> , SOME CLAY, SOME STONE FRAGMENTS, DAMP  |       | 4     | 4       | 11              | 56      | SS-2A     | 3.00     | 23            | 8  | 14 | 25 | 30 | 25        | 17 | 8  | 9               | A-4a (4)  |
|  |       | 5     | 4       |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
| @6.0'; WITH COAL FRAGMENTS   |       | 6     | 3       |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  |       | 7     | 5       | 11              | 33      | SS-3A     | 2.50     | -             | -  | -  | -  | -  | -         | -  | 10 | A-4a (V)        |           |
|  |       | 8     |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
| @8.5' - 10.0'; STIFF   |       | 9     | 4       |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  |       | 10    | 4       | 12              | 33      | SS-4A     | 1.50     | -             | -  | -  | -  | -  | -         | -  | 13 | A-4a (V)        |           |
|  |       | 11    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  |       | 12    | 3       | 19              | 44      | SS-5A     | 2.50     | 27            | 5  | 10 | 28 | 30 | 30        | 20 | 10 | 16              | A-4a (5)  |
|  |       | 13    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
| @13.5'; WITH SANDSTONE FRAGMENTS   |       | 14    | 8       | 30              | 67      | SS-6A     | 3.00     | -             | -  | -  | -  | -  | -         | -  | 12 | A-4a (V)        |           |
|  |       | 15    | 7       | 15              |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  | 892.1 | 16    | 60/5"   | -               | 83      | SS-7A     | -        | -             | -  | -  | -  | -  | -         | -  | 5  | Rock (V)        |           |
| <b>SANDSTONE</b> , LIGHT BROWN, MODERATELY WEATHERED, SLIGHTLY STRONG, FINE TO MEDIUM GRAINED, VERY THIN TO THIN BEDDED, MICACEOUS, VERY BLOCKY, GOOD; RQD 33%, REC 77%. |       | 17    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
| @19.2' - 19.6'; HIGH ANGLE FRACTURE, VERY ROUGH  |       | 18    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
| @ 20.6' - 21.0'; $\gamma = 150$ pcf; $Q_u = 3,575$ psi   |       | 19    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
| @21.3' - 21.4'; HIGH ANGLE FRACTURE, VERY ROUGH  |       | 20    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  |       | 21    | 33      |                 | 77      | NQ2-1     |          |               |    |    |    |    |           |    |    |                 | CORE      |
| @23.5' - 24.0'; HIGH ANGLE FRACTURE, VERY ROUGH  |       | 22    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  |       | 23    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  |       | 24    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  |       | 25    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  | 881.6 | 26    |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |
|  |       |       |         |                 |         |           |          |               |    |    |    |    |           |    |    |                 |           |

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/24/20 09:20 - X:\GINT\PROJECTS\2018 COMPLETE\600479.GPJ

NOTES: HOLE DRY BEFORE CORING. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/24/20 09:20 - X:\GINT\PROJECTS\2018 COMPLETE\1600479.GPJ

|   |  |                                    |   |                                     |
|---|--|------------------------------------|---|-------------------------------------|
| PROJECT: <u>TUS-800-26.67</u>             | DRILLING FIRM / OPERATOR: <u>ODOT / BRODIE</u> | DRILL RIG: <u>CME 850R TRACKED</u> | STATION / OFFSET: <u>209+67, 15' RIGHT</u>            | EXPLORATION ID<br><u>B-002-0-18</u> |
| TYPE: <u>RETAINING WALL</u>               | SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>    | HAMMER: <u>CME AUTOMATIC</u>       | ALIGNMENT: <u>CENTERLINE OF SR 800</u>                |                                     |
| PID: <u>106997</u> SFN: <u>N/A</u>        | DRILLING METHOD: <u>3.75" HSA / NQ2</u>        | CALIBRATION DATE: <u>6/1/17</u>    | ELEVATION: <u>911.5 (NAVD88)</u> EOB: <u>24.0 ft.</u> | PAGE<br><u>1 OF 1</u>               |
| START: <u>6/11/18</u> END: <u>6/12/18</u> | SAMPLING METHOD: <u>SPT</u>                    | ENERGY RATIO (%): <u>81</u>        | LAT / LONG: <u>40.556049, -81.416659</u>              |                                     |

| MATERIAL DESCRIPTION<br>AND NOTES   | ELEV. | DEPTH | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    | WC | ODOT<br>CLASS (GI) | BACK<br>FILL |
|---|-------|-------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|--------------|
|   |       |       |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI |    |                    |              |
| ASPHALT (12") & BASE (6")   | 911.5 |       |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
|   | 910.0 | 1     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| MEDIUM DENSE, BROWN AND BLACK, <b>GRAVEL AND STONE FRAGMENTS WITH SAND</b> , TRACE CLAY, TRACE SILT, DAMP   | 908.0 | 2     | 9           | 5               | 11         | 33           | SS-1A       | -             | 45 | 26 | 16 | 5  | 8         | NP | NP | NP | 6                  | A-1-b (0)    |
|   |       | 3     |             | 3               |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| VERY LOOSE, BROWN, <b>STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, DAMP  |       | 4     | 2           | 1               | 4          | 22           | SS-2A       | -             | -  | -  | -  | -  | -         | -  | -  | -  | 10                 | A-2-4 (V)    |
|   |       | 5     |             | 2               |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| @6.0'; VERY DENSE   |       | 6     | 4           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
|   |       | 7     | 28          |                 | 78         | 56           | SS-3A       | -             | 44 | 5  | 16 | 18 | 17        | 25 | 20 | 5  | 12                 | A-2-4 (0)    |
|   |       | 8     |             | 30              |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| STIFF, BROWN, <b>SANDY SILT</b> , SOME CLAY, LITTLE STONE FRAGMENTS, DAMP   | 903.0 | 9     | 8           | 7               | 23         | 56           | SS-4A       | 1.50          | 20 | 8  | 17 | 25 | 30        | 27 | 20 | 7  | 16                 | A-4a (4)     |
|   |       | 10    |             | 10              |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| @11.0'; VERY STIFF  |       | 11    | 8           |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
|   |       | 12    | 10          |                 | 24         | 67           | SS-5A       | 3.00          | -  | -  | -  | -  | -         | -  | -  | -  | 15                 | A-4a (V)     |
|   |       | 13    |             | 8               |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| <b>SANDSTONE</b> , LIGHT BROWN, MODERATELY WEATHERED, SLIGHTLY STRONG, FINE TO MEDIUM GRAINED, VERY THIN TO THIN BEDDED, MICACEOUS, BLOCKY, GOOD; RQD 59%, REC 97%. | 898.0 | 14    | 60/4"       |                 |            | 83           | SS-6A       | -             | -  | -  | -  | -  | -         | -  | -  | -  | 4                  | Rock (V)     |
|   |       | 15    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| @17.7'; HIGH ANGLE FRACTURE, VERY ROUGH   |       | 16    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| @17.8'; HIGH ANGLE FRACTURE, VERY ROUGH   |       | 17    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| @18.4' - 18.8'; $\gamma = 147$ pcf; $Q_u = 3,570$ psi   |       | 18    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| @20.0' - 20.4'; HIGH ANGLE FRACTURE, VERY ROUGH   |       | 19    | 59          |                 |            | 97           | NQ2-1       |               |    |    |    |    |           |    |    |    |                    | CORE         |
| @21.6' - 22.0'; HIGH ANGLE FRACTURE, VERY ROUGH   |       | 20    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
| @22.9' - 23.3'; HIGH ANGLE FRACTURE, VERY ROUGH   |       | 21    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
|   | 887.5 | 22    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
|   |       | 23    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
|   |       | 24    |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |
|   |       | EOB   |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |

NOTES: HOLE DRY BEFORE CORING. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH AUGER CUTTINGS

HISTORICAL BORING LOGS  
TUS-800-27.11  
LANDSLIDE EXPLORATION  
2019

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 11/13/19 14:31 - \US0247-PFESS01\SHARED\_PROJECTS\175528006\FIELD\GINT LOGS\175528006 GINT LOGS.GPJ

|                             |   |                           |  |                              |
|-----------------------------|---|---------------------------|--|------------------------------|
| PROJECT: TUS-800-27.11      | DRILLING FIRM / OPERATOR: STANTEC / DC  | DRILL RIG: CME 45C #3     | STATION / OFFSET: _____                | EXPLORATION ID<br>B-002-0-19 |
| TYPE: LANDSLIDE             | SAMPLING FIRM / LOGGER: STANTEC / LT/EH | HAMMER: CME AUTOMATIC     | ALIGNMENT: _____                       | PAGE<br>1 OF 1               |
| PID: 110875 SFN: _____      | DRILLING METHOD: 3.25" HSA / NQ         | CALIBRATION DATE: 4/24/18 | ELEVATION: 937.2(NAVD88) EOB: 24.3 ft. |                              |
| START: 9/19/19 END: 9/19/19 | SAMPLING METHOD: SPT                    | ENERGY RATIO (%): 88.4    | LAT / LONG: 40.560375, -81.410731      |                              |

| MATERIAL DESCRIPTION<br>AND NOTES  | ELEV. | DEPTHS | SPT/<br>RQD | N <sub>60</sub> | REC<br>(%) | SAMPLE<br>ID | HP<br>(tsf) | GRADATION (%) |    |    |    |    | ATTERBERG |    |    |    | ODOT<br>CLASS (GI) | BACK<br>FILL |          |
|--|-------|--------|-------------|-----------------|------------|--------------|-------------|---------------|----|----|----|----|-----------|----|----|----|--------------------|--------------|----------|
|  |       |        |             |                 |            |              |             | GR            | CS | FS | SI | CL | LL        | PL | PI | WC |                    |              |          |
| ASPHALT PAVEMENT   | 937.2 |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
| CONCRETE PAVEMENT  | 936.3 | 1      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
| LOOSE TO MEDIUM DENSE, BROWN, <b>GRAVEL WITH SAND AND SILT</b> , LITTLE CLAY, TRACE COAL FRAGMENTS, DRY  | 935.2 | 2      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
| Becomes soft, damp   |       | 3      | 10          | 7               | 24         | 67           | SS-1        | -             | 26 | 7  | 32 | 23 | 12        | 32 | 22 | 10 | 10                 | A-2-4 (0)    |          |
|  |       | 4      | 5           | 4               | 13         | 67           | SS-2        | -             | 26 | 7  | 32 | 23 | 12        | 32 | 22 | 10 | 15                 | A-2-4 (0)    |          |
| MEDIUM STIFF, BROWN, <b>SILT AND CLAY</b> , AND SAND, TRACE COAL FRAGMENTS, DAMP   | 931.9 | 5      | 6           | 2               | 12         | 27           | SS-3        | -             | -  | -  | -  | -  | -         | 30 | 19 | 11 | 11                 | A-6a (V)     |          |
|  | 930.2 | 6      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
| VERY STIFF, GRAY AND TAN, <b>SILT AND CLAY</b> , SOME GRAVEL, TRACE SAND, (SEVERELY WEATHERED SHALE), DAMP   |       | 7      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  |       | 8      | 9           | 9               | 37         | 67           | SS-4        | -             | -  | -  | -  | -  | -         | -  | -  | -  | -                  | 10           | A-6a (V) |
|  |       | 9      |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  |       | 10     | 10          | 18              | 59         | 80           | SS-5        | -             | 22 | 0  | 4  | 49 | 25        | 32 | 21 | 11 | 6                  | A-6a (8)     |          |
|  |       | 11     |             | 22              |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
| Becomes hard   |       | 12     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  | 923.8 | 13     | 20          | 50/5"           | -          | 100          | SS-6        | -             | -  | -  | -  | -  | -         | -  | -  | -  | -                  | 7            | A-6a (V) |
| <b>SHALE</b> , GRAY, SLIGHTLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED TO VERY THIN BEDDED, FERRIFEROUS.<br>-Water Return: 40%<br>-Horizontal fracture at 13.9' (iron-stained)<br>-UCR = 270 psi (14.3' to 14.6')<br>-Highly fractured at 16.0' to 16.3', 17.4' to 18.2' |       | 14     |             | 78              |            | 94           | NQ-1        |               |    |    |    |    |           |    |    |    |                    |              | CORE     |
|  | 921.0 | 15     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
| <b>SHALE</b> , GRAY TO TAN, MODERATELY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED TO THIN BEDDED, FERRIFEROUS.<br>-Vertical fractures at 18.9' to 19.8'<br>-Loosing water near end of NQ-2   |       | 16     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  | 917.0 | 17     |             | 64              |            | 64           | NQ-2        |               |    |    |    |    |           |    |    |    |                    |              | CORE     |
|  | 915.8 | 18     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
| <b>SHALE</b> , GRAY, SLIGHTLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED TO THIN BEDDED.<br>-Water Return = 0%<br>-Highly fractured at 20.2' to 20.4'<br>-Black shale seam at 20.8' to 21.2'   |       | 19     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  | 912.9 | 20     |             | 90              |            | 100          | NQ-3        |               |    |    |    |    |           |    |    |    |                    |              | CORE     |
| <b>SANDSTONE</b> , GRAY, SLIGHTLY WEATHERED, MODERATELY STRONG, FINE TO MEDIUM GRAINED, LAMINATED TO THIN BEDDED, MICACEOUS.<br>-UCR = 6140 psi (21.4' to 21.8')   |       | 21     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  |       | 22     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  |       | 23     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  |       | 24     |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |
|  |       |        |             |                 |            |              |             |               |    |    |    |    |           |    |    |    |                    |              |          |

NOTES: DID NOT ENCOUNTER STATIC GROUNDWATER PRIOR TO CORING; DRILLING WATER INTRODUCED AT 13.4'. LAT/LONG AS PROVIDED BY CONSULTANT. ELEV FROM OSIP DEM.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE PELLETS