

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>118+23, 7' RT.</u>	EXPLORATION ID: <u>B-001-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>625.0 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.566997, -81.004417</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
10.5 inches Asphalt 6.5 inches Concrete	625.0																		
STIFF TO VERY STIFF, BROWN AND RED-BROWN, CLAY , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP @ 5.0' - 5.5' : Medium Sand Seam @ 5.5' - 6.0' : Mottled Gray	623.6	1																	
		2	5	14	33	SS-1	-	-	-	-	-	-	-	-	-	-	13	A-7-6 (V)	-
		3	3																
		4	5	15	78	SS-2	3.00	6	10	11	34	39	44	23	21	20	A-7-6 (13)	-	
		5	5	17	56	SS-3	2.00	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-	
		6	4																
		617.5	7	6	14	67	SS-4	2.50	6	11	11	30	42	43	21	22	20	A-7-6 (13)	<100
		EOB	4																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>122+43, 7' LT.</u>	EXPLORATION ID: <u>B-002-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>623.4 (MSL)</u> EOB: <u>8.1 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.567968, -81.003617</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12.5 inches Asphalt 12 inches Concrete	623.4																		
	621.6	1																	
SOFT TO MEDIUM STIFF, BROWN TO REDDISH-BROWN, CLAY , SOME SAND, LITTLE GRAVEL, SOME SILT, DAMP		2	2																
		3	3	8	44	SS-1	2.00	13	14	12	28	33	41	21	20	19	A-7-6 (9)	<100	
		4	1	4	11	SS-2	1.50	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-	
		5	3	7	72	SS-3	1.00	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
	616.8	6	2	3															
STIFF, REDDISH-BROWN, SILTY CLAY , LITTLE SAND, TRACE GRAVEL, DAMP	615.3	7	2	3	11	67	SS-4	4.00	3	6	8	37	46	38	21	17	21	A-6b (11)	-
		8	3	5															
		EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111 MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>126+24, 6' RT.</u>	EXPLORATION ID: <u>B-003-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>622.0 (MSL)</u> EOB: <u>7.3 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.568872, -81.002934</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10 inches Asphalt 6 inches Concrete	622.0																		
VERY STIFF, BROWN AND RED-BROWN, SILT AND CLAY , LITTLE GRAVEL AND STONE FRAGMENTS, SOME SAND, DAMP	620.7	1	5																
		2	7	22	56	SS-1	-	-	-	-	-	-	-	-	16	A-6a (V)	-		
		3	4	9															
VERY STIFF TO HARD, BROWN AND RED-BROWN, SILTY CLAY , "AND" SAND, TRACE GRAVEL, DAMP SS-3 : Gravel Stuck in Shoe	617.7	4	6	21	83	SS-2	2.50	10	18	20	28	24	34	22	12	14	A-6a (4)	<100	
		5	6	10	42	22	SS-3	-	-	-	-	-	-	-	-	15	A-6b (V)	-	
		6	4	8	22	94	SS-4	1.50	2	10	30	23	35	33	16	17	20	A-6b (7)	-
@ 6.8' - 7.3' : Sand and Gravel Seam	614.7	EOB	8																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>130+42, 7' LT.</u>	EXPLORATION ID: <u>B-004-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>3" SAMPLER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>621.2 (MSL)</u> EOB: <u>7.8 ft.</u>	
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.569945, -81.002403</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13.5 inches Asphalt 8 inches Concrete	621.2																		
STIFF, DARK BROWN TRACE GRAY, CLAY , "AND" SILT, TRACE SAND, TRACE GRAVEL, DAMP	619.4	1																	
	616.4	2	9	15	33	SS-1	3.00	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-	
3		4	5	14	56	SS-2	3.00	1	0	3	48	48	55	29	26	26	A-7-6 (17)	<100	
STIFF TO VERY STIFF, BROWN MOTTLED GRAY, SILT AND CLAY LITTLE SAND, DAMP	613.4	4	4	6															
		5	4	6	17	44	SS-3	2.50	-	-	-	-	-	-	-	23	A-6a (V)	-	
		6	6	6															
		7	3	4	14	100	SS-4	2.00	0	1	17	50	32	37	22	15	23	A-6a (10)	-
		EOB	6																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111 MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>134+56, 7' RT.</u>	EXPLORATION ID: <u>B-005-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>623.0 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.570986, -81.001814</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
13 inches Asphalt 8 inches Concrete	623.0																		
STIFF TO VERY STIFF, DARK BROWN, SILTY CLAY , TRACE GRAVEL, LITTLE SAND, DAMP	621.2	1																	
		2	4																
STIFF, BROWN AND RED-BROWN TRACE GRAY, CLAY , SOME SILT, LITTLE GRAVEL, LITTLE SAND, DAMP	618.5	3	8	18	61	SS-1	1.00	2	4	13	49	32	39	22	17	22	A-6b (11)	-	
		4	3	5															
	615.0	5	3	10	22	SS-2	2.00	-	-	-	-	-	-	-	-	19	A-6b (V)	-	
		6	2	4															
	615.0	7	4	14	94	SS-3	2.00	12	10	10	29	39	44	21	23	22	A-7-6 (12)	<100	
		8	6	3															
		EOB	3	14	39	SS-4	1.50	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111 MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>138+58, 7' LT.</u>	EXPLORATION ID: <u>B-006-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>625.1 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.572027, -81.001333</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
14 inches Asphalt 7 inches Concrete	625.1																		
	623.3	1																	
STIFF, BROWN TO REDDISH-BROWN, CLAY , LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP		2	5																
		3	3	10	17	SS-1	4.00	-	-	-	-	-	-	-	-	-	16	A-7-6 (V)	-
	620.1	4	4	10	67	SS-2	2.50	18	11	11	28	32	43	21	22	18	A-7-6 (10)	<100	
STIFF, BROWN TO REDDISH-BROWN, SILTY CLAY , SOME GRAVEL, SOME SAND, DAMP		5	4	3															
		6	4	11	56	SS-3	3.00	-	-	-	-	-	-	-	-	-	19	A-6b (V)	-
	617.1	7	4	4	11	44	SS-4	1.50	23	10	16	25	26	39	19	20	17	A-6b (7)	-
		8	4	4	11	44	SS-4	1.50	23	10	16	25	26	39	19	20	17	A-6b (7)	-
		EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>142+65, 7' RT.</u>	EXPLORATION ID: <u>B-007-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.0 (MSL)</u> EOB: <u>7.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.573049, -81.000751</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
13 inches Asphalt 7 inches Concrete	627.0																			
VERY STIFF, DARK RED-BROWN TO RED-BROWN AND BROWN, CLAY , TRACE STONE FRAGMENTS, SOME SAND, DAMP	625.3	1																		
		2	4																	
VERY DENSE, BROWN AND LIGHT BROWN, STONE FRAGMENTS WITH SAND DAMP	622.0	3	2	6	11	SS-1	-	-	-	-	-	-	-	-	-	17	A-7-6 (V)	130		
		4	4	8	50/5"	-	59	SS-2	2.50	7	11	10	33	39	45	23	22	20	A-7-6 (13)	-
	620.0	5																		
		6	50/2"	-	100	SS-3	-	-	-	-	-	-	-	-	-	-	-	7	A-1-b (V)	-
	620.0	7	50/1"	-	100	SS-4	-	-	-	-	-	-	-	-	-	-	-	6	A-1-b (V)	-
		EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>146+65, 8' LT.</u>	EXPLORATION ID: <u>B-008-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>630.2 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.574071, -81.000233</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13 inches Asphalt 8 inches Concrete	630.2																		
STIFF TO VERY STIFF, BROWN, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP	628.4	1																	
		2	6	20	67	SS-1	3.00	9	12	14	28	37	40	20	20	18	A-6b (10)	<100	
STIFF TO VERY STIFF, BROWN, CLAY , LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP 5.0' - 6.5' : Trace Light Brown, Little Stone Fragments	625.2	3	4	15	33	SS-2	3.00	-	-	-	-	-	-	-	-	23	A-6b (V)	-	
		4	4	15	83	SS-3	2.50	13	10	12	28	37	41	22	19	18	A-7-6 (10)	-	
	622.2	5	4	15	56	SS-4	2.00	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-	
		6	4	15															
		7	3	15															
		7	4	15															
		8	7	15															
		8	7	15															
		EOB																	

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>150+65, 7' RT.</u>	EXPLORATION ID: <u>B-009-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>634.7 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.575048, -80.999583</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt 8 inches Concrete	634.7																		
STIFF TO VERY STIFF, DARK BROWN AND RED-BROWN, TRACE GRAY, CLAY , LITTLE TO TRACE GRAVEL, SOME TO LITTLE SAND, SOME SILT, DAMP	633.0	1																	
		2	3																
		3	5	17	72	SS-1	3.00	15	14	11	29	31	41	22	19	19	A-7-6 (9)	<100	
		4	5	3	10	SS-2	-	-	-	-	-	-	-	-	-	16	A-7-6 (V)	-	
		5	2	4	10	SS-2	-	-	-	-	-	-	-	-	-	16	A-7-6 (V)	-	
		6	3	11	72	SS-3	2.50	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-	
		7	3	5	11	SS-3	2.50	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-	
	626.7	8	3	11	SS-4	3.00	9	9	8	31	43	44	23	21	21	A-7-6 (13)	-		
		EOB	5	11	SS-4	3.00	9	9	8	31	43	44	23	21	21	A-7-6 (13)	-		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>154+55, 7' LT.</u>	EXPLORATION ID: <u>B-010-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>639.7 (MSL)</u> EOB: <u>7.7 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.576022, -80.999003</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt 8 inches Concrete	639.7																		
LOOSE, BROWN, GRAVEL WITH SAND AND SILT DAMP	638.0	1	2	7	22	SS-1	-	-	-	-	-	-	-	-	-	-	13	A-2-4 (V)	-
STIFF TO VERY STIFF, BROWN TRACE LIGHT BROWN, CLAY, LITTLE TO TRACE GRAVEL, SOME TO LITTLE SAND, SOME SILT, DAMP	636.5	2	3	11	83	SS-2	1.50	13	14	11	28	34	43	22	21	19	A-7-6 (10)	140	
		3	2	18	67	SS-3	3.50	8	10	8	33	41	45	24	21	20	A-7-6 (13)	-	
Below 6.2' : Reddish- to Orangish- Brown		4	4	14	44	SS-4	3.50	-	-	-	-	-	-	-	-	-	16	A-7-6 (V)	-
	632.0	7	4	6															

EOB

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D\1910318\20200111 MOE-7-2.21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>158+62, 6' RT.</u>	EXPLORATION ID: <u>B-011-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>642.0 (MSL)</u> EOB: <u>8.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.576985, -80.998272</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
13 inches Asphalt 8 inches Concrete	642.0																	
VERY STIFF, DARK RED-BROWN, BROWN, AND GRAY, CLAY , LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP	640.2	1																
		2	5															
		3	7 11	25	89	SS-1	3.00	17	12	9	32	30	41	22	19	17	A-7-6 (9)	<100
	638.0	4	4															
STIFF TO VERY STIFF, RED-BROWN, TRACE GRAY AND BROWN, CLAY , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP		5	4 5	13	56	SS-2	2.00	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-
		6	4 6	18	78	SS-3	3.50	3	8	7	33	49	48	24	24	21	A-7-6 (15)	-
		7	6 7	22	56	SS-4	4.00	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-
	633.5	8	8	22	56	SS-4	4.00	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-
		EOB																

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>162+94, 7' LT.</u>	EXPLORATION ID: <u>B-012-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>641.6 (MSL)</u> EOB: <u>7.8 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.578027, -80.997539</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
13 inches Asphalt 7 inches Concrete	641.6																			
	639.8	1																		
STIFF TO VERY STIFF, DARK BROWN TRACE GRAY, CLAY , TRACE GRAVEL, LITTLE TO SOME SAND, SOME SILT, DAMP		2	6	8	20	39	SS-1	-	-	-	-	-	-	-	-	-	-	13	A-7-6 (V)	-
		3	4	5	14	67	SS-2	2.00	2	8	11	37	42	45	23	22	24	A-7-6 (14)	<100	
Below 4.8' : Trace Light Brown, Trace Stone Fragments		4	5	3	10	89	SS-3	2.50	-	-	-	-	-	-	-	-	26	A-7-6 (V)	-	
		5	3	4	6	6	SS-4	-	5	14	10	32	39	46	23	23	21	A-7-6 (13)	-	
	633.8	6	5	6	17	44														
		7	6	6																
		EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D\1910318\20200111 MOE-7-2-21 BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>166+96, 6' RT.</u>	EXPLORATION ID: <u>B-013-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>640.5 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.578943, -80.996742</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)	
11 inches Asphalt 8 inches Concrete	640.5																			
	638.9	1																		
STIFF TO VERY STIFF, DARK RED-BROWN TO RED-BROWN, TRACE BROWN AND GRAY, CLAY , TRACE GRAVEL, SOME TO LITTLE SAND, SOME SILT, DAMP		2	4																	
		3	8	22	100	SS-1	1.50	8	13	9	33	37	46	23	23	23	A-7-6 (13)	<100		
		4	3	5	6	15	56	SS-2	2.00	-	-	-	-	-	-	-	22	A-7-6 (V)	-	
		5	3	5	6	17	72	SS-3	3.50	2	8	6	33	51	47	23	24	19	A-7-6 (15)	-
		6	3	4	7	13	17	SS-4	-	-	-	-	-	-	-	-	-	15	A-7-6 (V)	-
	632.5	7	4	5																
		8	5																	
		EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111 MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>172+44, 6' LT.</u>	EXPLORATION ID: <u>B-014-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>638.1 (MSL)</u> EOB: <u>7.7 ft.</u>	
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.580208, -80.995684</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13 inches Asphalt 7 inches Concrete	638.1																		
VERY STIFF, DARK BROWN, SILTY CLAY , SOME GRAVEL, SOME SAND, SOME SILT, DAMP	636.4	1																	
		2	10	25	56	SS-1	2.50	-	-	-	-	-	-	-	15	A-6b (V)	-		
STIFF, DARK BROWN TRACE GRAY, CLAY , "AND" SILT, TRACE GRAVEL, SOME SAND, DAMP	633.4	3	10	25	78	SS-2	2.00	22	11	16	28	23	37	20	17	15	A-6b (6)	<100	
		4	7	11															
	630.4	5	3	14	89	SS-3	2.00	5	14	13	36	32	50	29	21	28	A-7-6 (13)	-	
		6	3	7															
		7	5	15	72	SS-4	3.00	-	-	-	-	-	-	-	-	25	A-7-6 (V)	-	
		EOB	6																

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>176+43, 8' RT.</u>	EXPLORATION ID: <u>B-015-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>636.6 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.581066, -80.994806</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
18 inches Asphalt 6 inches Concrete	636.6	1																	
STIFF, DARK REDDISH-BROWN TRACE GRAY, CLAY , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	634.6	2	3	14	72	SS-1	3.00	7	8	9	28	48	51	25	26	23	A-7-6 (17)	<100	
		3	3	7															
	631.6	4	3	5	15	22	SS-2	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-	
		5	2	6															
STIFF TO VERY STIFF, DARK REDDISH-BROWN TRACE GRAY, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP		6	4	5	13	67	SS-3	3.50	5	10	14	36	35	37	20	17	19	A-6b (10)	-
		7	3	7	21	67	SS-4	3.50	-	-	-	-	-	-	-	-	20	A-6b (V)	-
	628.6	8	7	8															
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>180+61, 7' LT.</u>	EXPLORATION ID: <u>B-016-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>635.6 (MSL)</u> EOB: <u>8.2 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.581919, -80.993816</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI						
18 inches Asphalt 8 inches Concrete	635.6																				
	633.4	1																			
MEDIUM DENSE TO DENSE, BROWN, GRAVEL WITH SAND AND SILT TRACE CLAY, DAMP		2	8																		
		3	10	25	33	SS-1	-	-	-	-	-	-	-	-	8	A-2-4 (V)	-				
		4	22	36	100	SS-2	-	30	19	25	18	8	NP	NP	NP	7	A-2-4 (0)	<100			
		5	16																		
		6	7	6	17	78	SS-3	-	38	15	21	16	10	NP	NP	NP	9	A-2-4 (0)	-		
		6	6																		
	627.4	7	3	13	33	SS-4	-	-	-	-	-	-	-	-	-	-	-	12	A-2-4 (V)	-	
		8	4	5																	
		EOB																			

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>184+46, 7' RT.</u>	EXPLORATION ID: <u>B-017-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>635.5 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.582529, -80.992700</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt 7 inches Concrete	635.5																		
	633.9	1																	
MEDIUM STIFF TO STIFF, DARK REDDISH-BROWN, SILT AND CLAY LITTLE SAND, DAMP		2	3																
		3	4	13	89	SS-1	2.00	0	1	11	49	39	38	23	15	22	A-6a (10)	<100	
		4	2	4	8	SS-2	1.50	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
		5	1																
		6	2	4	8	SS-3	0.50	0	2	14	51	33	36	21	15	22	A-6a (10)	-	
		7	3																
	627.5	8	3	5	11	SS-4	2.00	-	-	-	-	-	-	-	-	21	A-6a (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>188+39, 8' LT.</u>	EXPLORATION ID: <u>B-018-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>637.1 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/19/21</u> END: <u>1/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.583206, -80.991611</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
14 inches Asphalt 7 inches Concrete	637.1																	
MEDIUM STIFF TO STIFF, ORANGISH-BROWN, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP	635.3	1																
		2	3	8	56	SS-1	2.00	3	11	14	38	34	36	21	15	20	A-6a (9)	<100
		3	3	11	56	SS-2	3.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-
		4	3	5														
	630.6	5	4	14	44	SS-3	1.50	-	-	-	-	-	-	-	-	20	A-6a (V)	-
		6	4	6														
STIFF, GRAYISH-BROWN, SILTY CLAY , LITTLE SAND, DAMP	629.1	7	2	10	100	SS-4	1.50	0	1	19	47	33	35	19	16	22	A-6b (10)	-
		8	3	4														
		EOB																

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>192+42, 6' RT.</u>	EXPLORATION ID: <u>B-019-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>638.7 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/11/21</u> END: <u>1/11/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.583834, -80.990434</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt 6 inches Concrete	638.7																		
STIFF, REDDISH-BROWN TRACE BROWN, SILTY CLAY , TRACE GRAVEL, LITTLE SAND, DAMP	637.2	1																	
		2	2	11	61	SS-1	2.50	-	-	-	-	-	-	-	19	A-6b (V)	-		
		3	4	6															
		4	4	5	13	17	SS-2	2.00	-	-	-	-	-	-	18	A-6b (V)	-		
STIFF, DARK REDDISH-BROWN, TRACE GRAY AND BROWN, SILT AND CLAY TRACE GRAVEL, LITTLE SAND, DAMP	631.7	5	3	5	10	67	SS-3	2.00	5	8	10	39	38	38	20	18	21	A-6b (11)	<100
	630.7	6	3	4	10	67	SS-3	2.00	5	8	10	39	38	38	20	18	21	A-6b (11)	<100
		7	3	4	15	78	SS-4	3.00	7	6	10	39	38	38	23	15	20	A-6a (10)	-
		8	4	7															
		EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111 MOE-7-2.21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>196+58, 7' LT.</u>	EXPLORATION ID: <u>B-020-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>641.6 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.584545, -80.989278</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13 inches Asphalt 8 inches Concrete	641.6																		
STIFF, BROWN, CLAY , "AND" SILT, TRACE SAND, DAMP	639.8	1																	
	638.1	2	3																
		3	4	10	61	SS-1	2.50	0	3	5	41	51	44	24	20	25	A-7-6 (13)	-	
STIFF TO VERY STIFF, ORANGISH-BROWN, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP		4	3																
		5	4	15	61	SS-2	3.00	4	8	13	34	41	37	21	16	20	A-6b (10)	<100	
		6	4	7															
		7	5	14	72	SS-3	2.50	-	-	-	-	-	-	-	-	19	A-6b (V)	-	
		8	5	5															
	633.6	7	7	20	89	SS-4	4.00	-	-	-	-	-	-	-	-	20	A-6b (V)	-	
		8	7	7															
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>200+38, 7' RT.</u>	EXPLORATION ID: <u>B-021-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>645.8 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.585136, -80.988164</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
12 inches Asphalt 6 inches Concrete	645.8																		
STIFF, BROWN AND REDDISH-BROWN, SILT AND CLAY , "AND" SAND, TRACE GRAVEL, DAMP	644.3	1																	
		2	3	11	44	SS-1	-	-	-	-	-	-	-	-	-	-	21	A-6a (V)	-
		3	3	5															
		4	4	5	13	100	SS-2	1.50	3	17	23	32	25	31	19	12	17	A-6a (5)	<100
		5	4	5	13	78	SS-3	0.50	-	-	-	-	-	-	-	-	21	A-6a (V)	-
	639.0	6	3																
STIFF, BROWN MOTTLED GRAY, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP	638.3	7	4	13	100	SS-4	1.50	-	-	-	-	-	-	-	-	-	-	A-6a (V)	-
			5			SS-4	0.50	1	3	26	40	30	32	17	15	24	A-6a (9)	-	

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21 BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>204+69, 6' LT.</u>	EXPLORATION ID: <u>B-022-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>650.6 (MSL)</u> EOB: <u>7.7 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.585872, -80.986966</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt 8 inches Concrete	650.6																		
STIFF TO VERY STIFF, DARK BROWN TRACE GRAY, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP	648.9	1																	
		2	5	10	24	17	SS-1	-	-	-	-	-	-	-	-	-	10	A-6a (V)	-
		3	3	7															
		4	4	3	10	89	SS-2	1.00	10	11	20	35	24	34	21	13	19	A-6a (6)	<100
		5	3	3	4	13	SS-3	1.50	-	-	-	-	-	-	-	-	24	A-6a (V)	-
MEDIUM DENSE, BROWN AND LIGHT BROWN, GRAVEL WITH SAND AND SILT TRACE CLAY, DAMP	644.4	6	7	5															
	642.9	7	7	5	17	67	SS-4	-	47	15	15	15	8	28	18	10	11	A-2-4 (0)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>208+59, 7' RT.</u>	EXPLORATION ID: <u>B-023-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>650.4 (MSL)</u> EOB: <u>7.6 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.586481, -80.985827</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt 7 inches Concrete	650.4																		
VERY STIFF, DARK REDDISH-BROWN AND BROWN, CLAY , "AND" SILT, TRACE SAND, TRACE GRAVEL, DAMP	648.8	1	4	9	21	67	SS-1	3.50	-	-	-	-	-	-	-	-	14	A-7-6 (V)	-
VERY STIFF, BROWN MOTTLED GRAY, CLAY , "AND" SILT, TRACE SAND, TRACE GRAVEL, DAMP	646.8	2	4	8	27	100	SS-2	3.50	1	1	6	47	45	43	20	23	21	A-7-6 (14)	<100
VERY STIFF, BROWN MOTTLED GRAY, SILT AND CLAY , TRACE GRAVEL, LITTLE SAND, DAMP	645.4	3	5	6	25	100	SS-3	3.00	1	0	11	62	26	29	18	11	18	A-6a (8)	-
MEDIUM DENSE, BROWN, SANDY SILT , DAMP	643.8	4	5	7	18	78	SS-4	-	-	-	-	-	-	-	-	-	13	A-4a (V)	-
@ 7.1' - 7.6' : Gray	642.8	5	6																



NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D\1910318\20200111 MOE-7-2.21 BORING LOGS.GPJ

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>212+72, 6' LT.</u>	EXPLORATION ID: <u>B-024-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>648.8 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.587185, -80.984680</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
13 inches Asphalt 8 inches Concrete	648.8																		
	647.0	1																	
MEDIUM STIFF TO STIFF, DARK BROWN TO GRAYISH-BROWN, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP		2	9																
		3	6	17	50	SS-1	4.50	-	-	-	-	-	-	-	-	-	18	A-6b (V)	-
		4	2	6	56	SS-2	1.00	4	9	16	41	30	37	21	16	20	A-6b (10)	<100	
		5	3	7	67	SS-3	1.50	3	6	11	44	36	38	22	16	25	A-6b (10)	-	
		6	2	3															
		7	3	11	100	SS-4	1.00	-	-	-	-	-	-	-	-	-	22	A-6b (V)	-
	640.8	8	5																
		EOB																	

(This area is intentionally left blank for additional notes or observations.)

NOTES: SS-2 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>216+78, 6' RT.</u>	EXPLORATION ID: <u>B-025-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>646.8 (MSL)</u> EOB: <u>7.6 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.587825, -80.983496</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
12 inches Asphalt 7 inches Concrete	646.8																		
STIFF, GRAYISH-BROWN TO BROWN MOTTLED GRAY, SILT AND CLAY LITTLE SAND, DAMP	645.2	1																	
		2	3	4	11	22	SS-1	3.00	-	-	-	-	-	-	-	-	21	A-6a (V)	-
		3	3	4	14	78	SS-2	2.00	0	1	11	59	29	34	19	15	23	A-6a (10)	120
		4	3	7	10	100	SS-3	1.50	-	-	-	-	-	-	-	-	25	A-6a (V)	-
MEDIUM STIFF, BROWN, SILT , LITTLE SAND, LITTLE CLAY, MOIST TO WET	640.7	5	3	4	8	100	SS-4	-	0	0	19	63	18	24	20	4	27	A-4b (8)	-
		6	2	3															
	639.2	7	3	3															
		EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>221+55, 7' LT.</u>	EXPLORATION ID: <u>B-026-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>641.8 (MSL)</u> EOB: <u>7.6 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.588634, -80.982165</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
11 inches Asphalt 8 inches Concrete	641.8																		
MEDIUM STIFF, DARK BROWN, CLAY , LITTLE SAND, DAMP	640.2	1	3																
		2	3	8	72	SS-1	1.00	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-	
	638.2	3	3																
STIFF, BROWN MOTTLED GRAY AND ORANGE, SILTY CLAY , LITTLE SAND, DAMP	637.2	4	3	10	89	SS-2	2.50	0	0	20	48	32	35	19	16	20	A-6b (10)	120	
		5	3	14	100	SS-3	2.00	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
STIFF, ORANGISH-BROWN, SILT AND CLAY SOME SAND, DAMP		6	4	6															
		7	3	11	100	SS-4	1.00	0	1	30	41	28	30	18	12	23	A-6a (8)	-	
	634.2	7	4	4															

EOB

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>225+56, 7' RT.</u>	EXPLORATION ID: <u>B-027-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>637.6 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.589261, -80.980994</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9 inches Asphalt 6 inches Concrete	637.6																		
STIFF, BROWN TO ORANGISH-BROWN, SILT AND CLAY , SOME SAND, DAMP	636.3	1																	
	634.6	2	3	5	15	50	SS-1	1.50	3	6	23	41	27	29	18	11	18	A-6a (7)	-
MEDIUM DENSE, BROWN, GRAVEL WITH SAND AND SILT , LITTLE CLAY, DAMP		3	7	5	14	78	SS-2	-	29	15	23	20	13	NP	NP	NP	13	A-2-4 (0)	100
		4	7	5															
		5	7	7	22	44	SS-3	-	-	-	-	-	-	-	-	-	14	A-2-4 (V)	-
		6	7	9															
		630.1	7	6	7	18	78	SS-4	-	-	-	-	-	-	-	-	12	A-2-4 (V)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:24 - C:\P\WORKING\EAST01D1910318\20200111 MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>229+54, 7' LT.</u>	EXPLORATION ID: <u>B-028-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>638.8 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.589943, -80.979888</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
14 inches Asphalt 8 inches Concrete	638.8	1																
STIFF, DARK BROWN, SILT AND CLAY LITTLE GRAVEL, SOME SAND, DAMP	636.8	2	8	21	33	SS-1	3.00	18	12	21	24	25	29	18	11	12	A-6a (3)	-
STIFF, BROWN, SILTY CLAY LITTLE GRAVEL, SOME SAND, DAMP TO MOIST	635.3	3	3	10	83	SS-2	1.00	12	8	18	34	28	36	20	16	21	A-6b (8)	<100
MEDIUM DENSE, ORANGISH-BROWN, GRAVEL WITH SAND, SILT, AND CLAY , DAMP TO MOIST	633.3	4	3	5	13	SS-3	2.00	-	-	-	-	-	-	-	-	16	A-2-6 (V)	-
	630.8	5	3	4	13	SS-4	-	-	-	-	-	-	-	-	-	16	A-2-6 (V)	-
		6	4															
		7	5															
		8	5															
		EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>233+58, 7' RT.</u>	EXPLORATION ID: <u>B-029-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>645.5 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.590573, -80.978711</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
11 inches Asphalt 6 inches Concrete	645.5																			
STIFF TO VERY STIFF, BROWN TO ORANGISH-BROWN, SILT AND CLAY "AND" SAND, TRACE GRAVEL, DAMP	644.1	1																		
		2	3	11	17	SS-1	-	-	-	-	-	-	-	-	14	A-6a (V)	-			
		3	4	5																
STIFF TO VERY STIFF, ORANGISH-BROWN AND BROWN, SILT , TRACE SAND, LITTLE CLAY, DAMP	641.0	4	6	17	83	SS-2	2.00	2	9	31	32	26	35	20	15	20	A-6a (7)	120		
		5	4	5	17	100	SS-3	1.00	0	0	6	77	17	31	22	9	25	A-4b (8)	-	
		6	4	7																
		7	4	6	14	100	SS-4	1.00	-	-	-	-	-	-	-	-	26	A-4b (V)	-	
	638.0	EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>237+36, 6' LT.</u>	EXPLORATION ID: <u>B-030-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>653.4 (MSL)</u> EOB: <u>7.6 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.591221, -80.977659</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
11 inches Asphalt 8 inches Concrete	653.4																		
STIFF TO VERY STIFF, DARK BROWN AND GRAY, SILT AND CLAY TRACE GRAVEL, LITTLE SAND, DAMP	651.8	1	3																
		2	4	11	78	SS-1	2.00	2	3	11	44	40	33	19	14	18	A-6a (10)	-	
		3	4	9															
STIFF TO VERY STIFF, DARK BROWN, CLAY, "AND" SILT, TRACE GRAVEL, LITTLE SAND, DAMP	648.8	4	8	20	44	SS-2	3.50	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
		5	4	15	83	SS-3	3.00	2	3	12	42	41	43	22	21	23	A-7-6 (13)	<100	
		6	3	7															
	645.8	7	5	14	56	SS-4	3.00	-	-	-	-	-	-	-	-	-	A-7-6 (V)	-	
EOB																			

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>242+49, 7' RT.</u>	EXPLORATION ID: <u>B-031-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>658.0 (MSL)</u> EOB: <u>7.6 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.592034, -80.976172</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
12 inches Asphalt 7 inches Concrete	658.0																		
	656.4	1																	
VERY STIFF, BROWN, REDDISH-BROWN, ORANGISH-BROWN, SILT AND CLAY "AND" SAND, SOME GRAVEL, DAMP		2	6	18	44	SS-1	-	-	-	-	-	-	-	-	-	-	13	A-6a (V)	-
		3	4	7															
	653.4	4	5	17	72	SS-2	-	25	16	22	21	16	30	19	11	13	A-6a (1)	140	
		5	4	7															
STIFF TO VERY STIFF, REDDISH-BROWN AND BROWN, SANDY SILT , TRACE GRAVEL, SOME CLAY, DAMP		6	5	17	50	SS-3	-	-	-	-	-	-	-	-	-	-	14	A-4a (V)	-
		7	5	7															
	650.4	7	6	15	100	SS-4	2.00	1	28	24	22	25	29	19	10	17	A-4a (2)	-	
				5															

EOB

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>246+98, 7' LT.</u>	EXPLORATION ID: <u>B-032-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>654.6 (MSL)</u> EOB: <u>7.7 ft.</u>	
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.592798, -80.974923</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt 8 inches Concrete	654.6																		
MEDIUM STIFF TO STIFF, DARK BROWN AND REDDISH-BROWN, TRACE GRAY, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP	652.9	1	4																
		2	5	14	83	SS-1	2.00	8	10	18	37	27	30	19	11	17	A-6a (6)	<100	
		3	2	7	67	SS-2	1.00	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
	649.9	4	3																
STIFF TO VERY STIFF, ORANGISH-BROWN, SILT AND CLAY , TRACE GRAVEL, LITTLE SAND, DAMP		5	3																
		6	5	14	89	SS-3	1.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
		7	4																
Below 6.5' : Trace Light Brown, Trace Stone Fragments	646.9	7	6	17	100	SS-4	3.00	1	14	6	35	44	34	20	14	30	A-6a (10)	-	

EOB

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>250+98, 6' RT.</u>	EXPLORATION ID: <u>B-033-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>647.5 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.593425, -80.973757</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt 6 inches Concrete	647.5																		
MEDIUM DENSE, DARK BROWN, SANDY SILT , LITTLE GRAVEL, LITTLE CLAY, DAMP	646.0	1	8	21	61	SS-1	-	15	5	33	35	12	NP	NP	NP	16	A-4a (2)	<100	
STIFF TO VERY STIFF, DARK BROWN MOTTLED GRAY, CLAY , "AND" SILT, TRACE GRAVEL, TRACE SAND, DAMP	643.5	2	5	15	78	SS-2	-	-	-	-	-	-	-	-	-	19	A-4a (V)	-	
		3	5	17	56	SS-3	1.50	-	-	-	-	-	-	-	-	28	A-7-6 (V)	-	
	640.0	4	4	14	89	SS-4	2.50	1	1	9	35	54	43	22	21	24	A-7-6 (13)	-	
		5	5																
		6																	
		7																	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>254+96, 7' LT.</u>	EXPLORATION ID: <u>B-034-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>644.4 (MSL)</u> EOB: <u>7.6 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.594106, -80.972651</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
11 inches Asphalt 9 inches Concrete	644.4																		
STIFF, ORANGISH-BROWN AND LIGHT BROWN, CLAY , "AND" SILT, TRACE GRAVEL, LITTLE SAND, DAMP	642.8	1	3																
		2	4	11	56	SS-1	2.00	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-	
		3	5	4															
VERY STIFF, ORANGISH-BROWN AND LIGHT BROWN, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP	639.8	4	5	14	56	SS-2	2.00	2	7	9	38	44	43	21	22	19	A-7-6 (13)	<100	
		5	4																
		6	6	10	22	100	SS-3	3.50	-	-	-	-	-	-	-	20	A-6a (V)	-	
		7	6	7	20	61	SS-4	2.00	2	15	15	29	39	34	20	14	16	A-6a (8)	-
	636.8	7	7	7															

EOB

NOTES: SS-2 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>259+18, 6' RT.</u>	EXPLORATION ID: <u>B-035-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>641.2 (MSL)</u> EOB: <u>7.6 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.594770, -80.971420</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC			
11 inches Asphalt 8 inches Concrete	641.2																		
STIFF, DARK BROWN TRACE GRAY, CLAY , LITTLE GRAVEL, LITTLE SAND, SOME SILT, DAMP	639.6	1																	
		2	3	11	83	SS-1	3.50	11	8	14	32	35	43	22	21	20	A-7-6 (11)	<100	
		3	5																
		4	4	13	11	SS-2	-	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-	
		5	5																
@ 5.5' - 5.6' : Noted Organics		6	3	11	78	SS-3	1.00	-	-	-	-	-	-	-	-	27	A-7-6 (V)	-	
Below 6.6' : Dark Brown Mottled Gray and Brown	633.6	7	2	13	61	SS-4	1.50	0	1	6	34	59	46	23	23	27	A-7-6 (14)	-	
		EOB	4	5															

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>263+41, 7' LT.</u>	EXPLORATION ID: <u>B-036-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>638.2 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.595489, -80.970244</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10 inches Asphalt 8 inches Concrete	638.2																		
STIFF TO VERY STIFF, REDDISH-BROWN AND LIGHT BROWN, CLAY , "AND" SILT, TRACE GRAVEL, LITTLE SAND, DAMP	636.7	1																	
		2	3	8	44	SS-1	3.50	-	-	-	-	-	-	-	19	A-7-6 (V)	-		
VERY STIFF, REDDISH-BROWN AND LIGHT BROWN, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP	633.7	3	4	17	83	SS-2	2.50	2	4	10	41	43	43	22	21	21	A-7-6 (13)	<100	
		4	5	7															
	630.7	5	7	17	44	SS-3	1.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
		6	6	18	78	SS-4	2.00	2	13	15	31	39	34	20	14	16	A-6a (9)	-	
		7	6	7															
		EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>267+43, 5' RT.</u>	EXPLORATION ID: <u>B-037-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>635.6 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.596121, -80.969075</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI					
10 inches Asphalt 8 inches Concrete	635.6																			
MEDIUM STIFF TO STIFF, DARK BROWN, SILT , SOME SAND, LITTLE CLAY, DAMP	634.1	1																		
		2	6	8	24	100	SS-1	-	-	-	-	-	-	-	-	-	-	25	A-4b (V)	-
		3	3	9																
	631.1	4	4	5	13	100	SS-2	0.50	0	0	29	53	18	26	20	6	22	A-4b (7)	<100	
SOFT TO MEDIUM STIFF, DARK BROWN, SANDY SILT , LITTLE CLAY, DAMP @ 4.5' - 6.0' : Wet Below 6.0' : Orangish-Brown		5	1	1	4	100	SS-3	0.50	-	-	-	-	-	-	-	-	-	14	A-4a (V)	-
		6	1	2																
	628.1	7	1	3	6	100	SS-4	0.50	0	1	41	38	20	23	17	6	25	A-4a (5)	-	
		EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>271+24, 6' LT.</u>	EXPLORATION ID: <u>B-038-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>635.3 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.596771, -80.968012</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10 inches Asphalt 8 inches Concrete	635.3																		
STIFF, BROWN TO REDDISH-BROWN, SILT AND CLAY , SOME GRAVEL, SOME SAND, DAMP	633.8	1																	
		2	5	4	13	72	SS-1	2.00	-	-	-	-	-	-	-	-	17	A-6a (V)	-
		3	3	4	11	61	SS-2	1.50	22	10	16	28	24	34	20	14	16	A-6a (5)	<100
		4	4	4	15	50	SS-3	2.00	-	-	-	-	-	-	-	-	16	A-6a (V)	-
		5	4	6	5	17	SS-4	-	1	2	45	39	13	NP	NP	NP	15	A-4a (3)	-
MEDIUM DENSE, BROWN, SANDY SILT , TRACE GRAVEL, LITTLE CLAY, DAMP	629.3	6	7																
	627.8	7	6	6															
		EOB																	

NOTES: SS-2 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>275+48, 6' RT.</u>	EXPLORATION ID: <u>B-039-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>637.4 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.597438, -80.966778</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10 inches Asphalt 8 inches Concrete	637.4																		
MEDIUM DENSE, BROWN AND DARK BROWN, SANDY SILT, LITTLE CLAY, DAMP	635.9	1																	
		2	4	6	24	100	SS-1	-	0	1	47	39	13	NP	NP	NP	15	A-4a (3)	-
	633.9	3	7	11															
STIFF TO VERY STIFF, BROWN TO ORANGISH-BROWN, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP		4	5	7	17	100	SS-2	-	-	-	-	-	-	-	-	-	20	A-6a (V)	-
		5	7	7															
		6	4	6	14	100	SS-3	2.50	10	15	20	32	23	34	20	14	16	A-6a (6)	<100
		7	3	6															
	629.9	7	4	6	14	44	SS-4	-	-	-	-	-	-	-	-	-	12	A-6a (V)	-

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>279+52, 7' LT.</u>	EXPLORATION ID: <u>B-040-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>639.0 (MSL)</u> EOB: <u>7.7 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.598128, -80.965654</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
12 inches Asphalt 8 inches Concrete	639.0																	
	637.3	1																
STIFF, DARK BROWN, SILTY CLAY , SOME SAND, TRACE GRAVEL AND STONE FRAGMENTS, DAMP	635.8	2	4	13	56	SS-1	3.00	-	-	-	-	-	-	-	-	19	A-6b (V)	-
		3	5															
MEDIUM STIFF TO STIFF, BROWN TRACE GRAY, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP		4	3	10	78	SS-2	1.00	6	7	29	32	26	31	19	12	15	A-6a (5)	<100
		5	2															
		6	2	6	78	SS-3	0.50	0	2	25	37	36	30	18	12	21	A-6a (8)	-
		7	4															
Below 6.2' : Trace Light Brown Stone Fragments	631.3	7	5	14	89	SS-4	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>283+53, 7' RT.</u>	EXPLORATION ID: <u>B-041-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>637.2 (MSL)</u> EOB: <u>7.6 ft.</u>	
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.598754, -80.964484</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
12 inches Asphalt 7 inches Concrete	637.2																	
MEDIUM DENSE, ORANGISH-BROWN TO BROWN, SANDY SILT , TRACE GRAVEL, SOME CLAY, DAMP	635.6	1	3															
MEDIUM DENSE, BROWN, SANDY SILT , TRACE GRAVEL, LITTLE CLAY, DAMP	634.2	2	4	11	61	SS-1	3.00	1	9	27	35	28	26	16	10	16	A-4a (6)	-
		3	4	4														
		4	5	18	100	SS-2	-	1	1	37	47	14	22	17	5	15	A-4a (5)	<100
		5	5	8														
		6	6	20	100	SS-3	-	-	-	-	-	-	-	-	-	14	A-4a (V)	-
		7	4	8														
		7	5	14	78	SS-4	-	-	-	-	-	-	-	-	-	16	A-4a (V)	-
@ 7.5' - 7.6' : Gray	629.6	EOB	5	5														

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>287+62, 6' LT.</u>	EXPLORATION ID: <u>B-042-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>637.7 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/15/21</u> END: <u>1/15/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.599447, -80.963342</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8 inches Asphalt 8 inches Concrete	637.7																		
MEDIUM DENSE, BROWN, SILT, "AND" SAND, LITTLE CLAY, TRACE GRAVEL, DAMP	636.4	1																	
		2	8																
		3	9	29	89	SS-1	-	1	1	35	50	13	NP	NP	NP	14	A-4b (6)	<100	
		4	6	12															
		5	6	7	18	100	SS-2	-	-	-	-	-	-	-	-	20	A-4b (V)	-	
MEDIUM STIFF, DARK REDDISH-BROWN, SILT AND CLAY, TRACE GRAVEL, SOME SAND, DAMP	632.7	6	2																
	631.7	7	2	7	100	SS-3	2.00	1	9	17	35	38	35	21	14	25	A-6a (9)	-	
MEDIUM STIFF, BROWN, SILT AND CLAY LITTLE SAND, TRACE GRAVEL, DAMP	630.2	EOB	2	6	100	SS-4	1.00	-	-	-	-	-	-	-	-	24	A-6a (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>291+64, 5' RT.</u>	EXPLORATION ID: <u>B-043-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>637.1 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.600028, -80.962127</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
8 inches Asphalt 7 inches Concrete	637.1																		
VERY STIFF, DARK BROWN, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP	635.8	1																	
		2	4	17	72	SS-1	3.50	6	11	16	31	36	40	21	19	18	A-6b (10)	<100	
		3	5																
		4	8	25	44	SS-2	-	-	-	-	-	-	-	-	-	17	A-6b (V)	-	
VERY STIFF, REDDISH-BROWN AND BROWN, SANDY SILT , TRACE GRAVEL, LITTLE CLAY, DAMP	632.1	5	5	21	78	SS-3	4.00	1	30	24	27	18	28	20	8	12	A-4a (2)	-	
		6	4	7															
		7	4	13	61	SS-4	3.00	-	-	-	-	-	-	-	-	15	A-4a (V)	-	
	629.6	EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>295+63, 7' LT.</u>	EXPLORATION ID: <u>B-044-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>633.5 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/15/21</u> END: <u>1/15/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.600596, -80.960917</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8 inches Asphalt 8 inches Concrete	633.5																		
STIFF TO VERY STIFF, DARK BROWN TRACE GRAY, CLAY , "AND" SILT, TRACE GRAVEL, SOME SAND, DAMP	632.2	1																	
		2	3	4	11	17	SS-1	3.00	-	-	-	-	-	-	-	-	25	A-7-6 (V)	-
		3	3	4	21	89	SS-2	2.00	9	8	15	37	31	41	22	19	21	A-7-6 (10)	100
		4	3	5	22	100	SS-3	-	0	0	54	36	10	NP	NP	NP	18	A-4a (2)	-
LOOSE TO MEDIUM DENSE, BROWN, SANDY SILT , TRACE CLAY, DAMP	628.5	5	6	7															
		6	3	9	8	50	SS-4	-	-	-	-	-	-	-	-	-	19	A-4a (V)	-
		7	3	3															
	626.0	EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>299+64, 5' RT.</u>	EXPLORATION ID: <u>B-045-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>628.9 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.601051, -80.959619</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
8.5 inches Asphalt 7.5 inches Concrete	628.9																			
STIFF, DARK BROWN TRACE GRAY, SILT AND CLAY , LITTLE SAND, LITTLE GRAVEL, DAMP	627.5	1																		
	625.9	2	3	4	11	56	SS-1	3.00	-	-	-	-	-	-	-	-	21	A-6a (V)	-	
MEDIUM DENSE, BROWN, SILT , "AND" SAND, TRACE CLAY, DAMP	624.4	3	5	6	21	100	SS-2	-	0	0	36	54	10	NP	NP	NP	19	A-4b (6)	<100	
		4	6	9	32	100	SS-3	4.00	-	-	-	-	-	-	-	-	4	A-6a (V)	-	
STIFF TO VERY STIFF, BROWN, SILT AND CLAY TRACE GRAVEL, LITTLE SAND, DAMP		5	32	15	32	100	SS-3	4.00	-	-	-	-	-	-	-	-	4	A-6a (V)	-	
	621.4	6	4	3	10	67	SS-4	1.00	1	5	6	35	53	37	23	14	26	A-6a (10)	-	
		7																		

EOB

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>303+67, 7' LT.</u>	EXPLORATION ID: <u>B-046-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>626.2 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/15/21</u> END: <u>1/15/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.601559, -80.958346</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
9 inches Asphalt 8 inches Concrete	626.2																	
STIFF TO VERY STIFF, DARK BROWN, SILT AND CLAY , TRACE GRAVEL, SOME SAND, DAMP	624.8	1																
		2	10	29	50	SS-1	1.50	-	-	-	-	-	-	-	-	16	A-6a (V)	-
MEDIUM STIFF TO STIFF, DARK BROWN TO BROWN MOTTLED GRAY, SILTY CLAY , LITTLE SAND, TRACE GRAVEL, DAMP	621.7	3	6															
		4	4	14	72	SS-2	4.00	4	11	14	47	24	33	21	12	17	A-6a (8)	<100
	618.7	5	2															
		6	4	8	100	SS-3	1.50	-	-	-	-	-	52	26	26	-	A-6b (V)	-
		7	4	11	61	SS-4	2.50	-	-	-	-	-	-	-	-	24	A-6b (V)	-
		EOB	4															

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>307+67, 5' RT.</u>	EXPLORATION ID: <u>B-047-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.4 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/12/21</u> END: <u>1/12/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.601999, -80.957047</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
7.5 inches Asphalt 7.5 inches Concrete	627.4																		
STIFF TO VERY STIFF, BROWN MOTTLED GRAY, SILTY CLAY, LITTLE GRAVEL, SOME SAND, DAMP	626.1	1																	
		2	5	7	21	100	SS-1	3.00	18	12	9	32	29	40	21	19	17	A-6b (9)	<100
		3	5	8															
	622.9	4	4	5	13	33	SS-2	-	-	-	-	-	-	-	-	-	16	A-6b (V)	-
STIFF, BROWN MOTTLED GRAY, CLAY, TRACE GRAVEL, SOME SAND, SOME SILT, DAMP		5	4	6	15	72	SS-3	3.00	1	14	12	26	47	42	23	19	20	A-7-6 (12)	-
		6	4	5															
	619.9	7	4	4	11	44	SS-4	3.50	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-
		EOB		4															

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>311+66, 7' LT.</u>	EXPLORATION ID: <u>B-048-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>629.1 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/15/21</u> END: <u>1/15/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.602500, -80.955787</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8.5 inches Asphalt 7.5 inches Concrete	629.1																		
MEDIUM STIFF TO STIFF, ORANGISH-BROWN AND LIGHT BROWN, SILTY CLAY , TRACE GRAVEL, LITTLE SAND, DAMP	627.8	1																	
		2	2	7	78	SS-1	3.00	3	5	10	46	36	39	22	17	21	A-6b (11)	140	
		3	3																
	624.6	4	3	13	72	SS-2	3.00	-	-	-	-	-	-	-	-	20	A-6b (V)	-	
		5	3																
STIFF TO VERY STIFF, ORANGISH-BROWN AND LIGHT BROWN, CLAY , "AND" SILT, LITTLE SAND, DAMP		6	5	18	89	SS-3	3.00	0	5	7	42	46	41	21	20	19	A-7-6 (12)	-	
		7	5																
	621.6	7	7	25	100	SS-4	4.50	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>315+68, 6' RT.</u>	EXPLORATION ID: <u>B-049-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>629.0 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.602944, -80.954478</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8 inches Asphalt 7 inches Concrete	629.0																		
STIFF, DARK BROWN, CLAY , "AND" SILT, TRACE GRAVEL, LITTLE SAND, DAMP	627.7	1																	
		2	2	10	72	SS-1	2.00	3	4	8	42	43	45	23	22	24	A-7-6 (14)	<100	
		3	3	5															
VERY STIFF, BROWN MOTTLED GRAY, CLAY , "AND" SILT, TRACE SAND, DAMP	624.5	4	5	14	67	SS-2	2.50	-	-	-	-	-	-	-	-	25	A-7-6 (V)	-	
		5	5	5															
		6	6	8	20	56	SS-3	3.50	0	1	6	39	54	49	24	25	23	A-7-6 (16)	-
		7	5	7	22	83	SS-4	3.50	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-
	621.5	EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>319+62, 7' LT.</u>	EXPLORATION ID: <u>B-050-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.8 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/15/21</u> END: <u>1/15/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.603439, -80.953236</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8 inches Asphalt 8 inches Concrete	627.8																		
STIFF TO VERY STIFF, ORANGISH-BROWN TO BROWN MOTTLED GRAY, SILTY CLAY , TRACE GRAVEL, LITTLE SAND, DAMP	626.5	1																	
		2	6	20	33	SS-1	4.00	-	-	-	-	-	-	-	20	A-6b (V)	-		
		3	5	8															
		4	6	20	89	SS-2	4.00	1	2	14	50	33	36	19	17	18	A-6b (11)	120	
MEDIUM DENSE, BROWN, SANDY SILT , SOME CLAY, DAMP	622.3	5	6	10	29	100	SS-3	4.00	-	-	-	-	-	-	15	A-6b (V)	-		
		6	6	11															
		7	6	10	28	100	SS-4	-	0	0	34	41	25	26	18	8	15	A-4a (6)	-
	620.3	EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>323+67, 5' RT.</u>	EXPLORATION ID: <u>B-051-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>625.8 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.603888, -80.951920</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
7.5 inches Asphalt 7.5 inches Concrete	625.8																			
STIFF TO VERY STIFF, BROWN, SILTY CLAY , LITTLE GRAVEL, SOME SAND, DAMP	624.6	1																		
		2	5	4	13	89	SS-1	3.50	13	19	14	27	27	35	18	17	14	A-6b (7)	-	
		3	5	6	20	44	SS-2	3.50	-	-	-	-	-	-	-	-	22	A-6b (V)	-	
STIFF TO VERY STIFF, BROWN MOTTLED GRAY, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP	621.3	4	8	7	22	89	SS-3	3.00	1	0	25	49	25	30	19	11	18	A-6a (8)	<100	
		5	6	7	22	89	SS-3	3.00	1	0	25	49	25	30	19	11	18	A-6a (8)	<100	
		6	3	5	15	100	SS-4	1.50	-	-	-	-	-	-	-	-	-	21	A-6a (V)	-
		7	5	6	15	100	SS-4	1.50	-	-	-	-	-	-	-	-	-	21	A-6a (V)	-
	618.3	EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>327+62, 7' LT.</u>	EXPLORATION ID: <u>B-052-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>623.8 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/15/21</u> END: <u>1/15/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.604412, -80.950691</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14 inches Asphalt (No apparent underlying concrete)	623.8																		
STIFF, DARK BROWN TRACE GRAY, SILTY CLAY , LITTLE GRAVEL, SOME SAND, DAMP TO MOIST	622.6	1																	
		2	3	4	11	50	SS-1	3.00	18	13	15	24	30	37	20	17	16	A-6b (7)	<100
		3	5	4	11	17	SS-2	1.50	-	-	-	-	-	-	-	-	17	A-6b (V)	-
	619.3	4	3	5	13	89	SS-3	1.50	3	15	11	23	48	47	24	23	24	A-7-6 (14)	-
STIFF, DARK BROWN TRACE GRAY, CLAY , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP TO MOIST @ 5.7' - 5.8' : Noted Organic Material		5	3	6	11	50	SS-4	1.50	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-
	616.3	6	6	4															
		7	4	4															
		EOB																	

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>331+68, 8' RT.</u>	EXPLORATION ID: <u>B-053-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>3" SAMPLER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.1 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.604929, -80.949413</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
7.5 inches Asphalt 8 inches Concrete	627.1																		
STIFF, BROWN, REDDISH-BROWN TRACE GRAY, CLAY , LITTLE GRAVEL, LITTLE SAND, SOME SILT, DAMP	625.8	1																	
		2	4	13	22	SS-1	2.00	-	-	-	-	-	-	-	17	A-7-6 (V)	-		
		3	5	13	22	SS-2	-	14	7	9	27	43	48	22	26	22	A-7-6 (15)	<100	
MEDIUM STIFF TO STIFF, BROWN, REDDISH-BROWN TRACE GRAY, SILT AND CLAY "AND" SAND, LITTLE GRAVEL, DAMP	622.6	4	5	4	13	44	SS-3	2.00	-	-	-	-	-	-	-	-	24	A-6a (V)	-
		5	2	5	13	44	SS-3	2.00	-	-	-	-	-	-	-	-	24	A-6a (V)	-
		6	7	4	13	44	SS-3	2.00	-	-	-	-	-	-	-	-	24	A-6a (V)	-
		7	3	3	8	61	SS-4	1.00	11	20	20	18	31	33	18	15	14	A-6a (5)	-
	619.6	EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>335+63, 7' LT.</u>	EXPLORATION ID: <u>B-054-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>632.7 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/15/21</u> END: <u>1/15/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.605546, -80.948258</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8 inches Asphalt 8 inches Concrete	632.7																		
STIFF TO VERY STIFF, REDDISH-BROWN, CLAY , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	631.4	1																	
		2	3	14	56	SS-1	3.50	10	10	15	25	40	45	22	23	20	A-7-6 (12)	160	
STIFF, DARK BROWN TRACE GRAY, CLAY , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	628.7	3	6	22	56	SS-2	1.50	-	-	-	-	-	-	-	-	17	A-7-6 (V)	-	
		4	7	22	56	SS-2	1.50	-	-	-	-	-	-	-	-	17	A-7-6 (V)	-	
		5	4	15	67	SS-3	2.50	1	11	13	23	52	45	23	22	22	A-7-6 (14)	-	
		6	5	15	67	SS-3	2.50	1	11	13	23	52	45	23	22	22	A-7-6 (14)	-	
		7	4	14	72	SS-4	2.00	-	-	-	-	-	-	-	-	-	29	A-7-6 (V)	-
	625.2	EOB	5	14	72	SS-4	2.00	-	-	-	-	-	-	-	29	A-7-6 (V)	-		

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>339+66, 6' RT.</u>	EXPLORATION ID: <u>B-055-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>636.2 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.606164, -80.947074</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9 inches Asphalt 7 inches Concrete	636.2																		
VERY STIFF, BROWN, CLAY , LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP	634.9	1																	
		2	2	7	28	SS-1	2.00	-	-	-	-	-	-	-	10	A-7-6 (V)	-		
		3	1	3															
STIFF TO VERY STIFF, REDDISH-BROWN AND BROWN, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP	631.7	4	2	6	17	SS-2	-	13	15	12	24	36	44	22	22	19	A-7-6 (10)	<100	
		5	2	4	13	67	SS-3	2.50	-	-	-	-	-	-	-	19	A-6b (V)	-	
		6	5	5															
	628.7	7	5	18	61	SS-4	2.50	4	20	11	31	34	37	21	16	17	A-6b (8)	-	
		EOB																	

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>343+64, 6' LT.</u>	EXPLORATION ID <u>B-056-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>635.3 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.606853, -80.945975</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
8.5 inches Asphalt 8 inches Concrete	635.3																			
STIFF TO VERY STIFF, REDDISH-BROWN AND BROWN, SILTY CLAY , LITTLE TO TRACE GRAVEL, SOME SAND, DAMP	633.9	1																		
		2	6	5	15	44	SS-1	2.00	-	-	-	-	-	-	-	-	-	16	A-6b (V)	-
		3	4	5	13	78	SS-2	4.00	13	11	11	32	33	39	21	18	16	A-6b (9)	<100	
		4	4	5	13	78	SS-2	4.00	13	11	11	32	33	39	21	18	16	A-6b (9)	<100	
		5	6	5	17	67	SS-3	3.50	-	-	-	-	-	-	-	-	-	17	A-6b (V)	-
		6	5	5	17	67	SS-3	3.50	-	-	-	-	-	-	-	-	-	17	A-6b (V)	-
		627.8	7	5	17	56	SS-4	3.00	2	10	10	31	47	40	21	19	17	A-6b (12)	-	
		EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>347+64, 5' RT.</u>	EXPLORATION ID: <u>B-057-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>630.9 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.607496, -80.944822</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8.5 inches Asphalt 7.5 inches Concrete	630.9																		
VERY STIFF, REDDISH-BROWN TRACE GRAY, SILTY CLAY , LITTLE GRAVEL, SOME SAND, DAMP	629.6	1																	
		2	4	22	67	SS-1	4.00	-	-	-	-	-	-	-	20	A-6b (V)	-		
		3	4	11															
STIFF TO VERY STIFF, BROWN, SANDY SILT , SOME CLAY, DAMP	626.4	4	7	20	44	SS-2	-	14	13	17	28	28	38	20	18	14	A-6b (7)	<100	
		5	5	7															
		6	4	13	61	SS-3	1.50	0	1	28	41	30	29	19	10	19	A-4a (7)	-	
		7	10	5															
	623.4	EOB	5	18	100	SS-4	3.00	-	-	-	-	-	-	-	-	19	A-4a (V)	-	

NOTES: SS-2 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>351+63, 6' LT.</u>	EXPLORATION ID: <u>B-058-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>628.4 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.608183, -80.943721</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
8 inches Asphalt 8 inches Concrete	628.4																		
HARD, DARK BROWN TRACE GRAY, ELASTIC CLAY , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	627.1	1																	
		2	17																
VERY STIFF, DARK BROWN TRACE GRAY, CLAY , LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP	623.9	3	20	63	50	SS-1	-	-	-	-	-	-	-	-	-	12	A-7-5 (V)	-	
		4	7	25															
Below 6.0' : Orangish Brown	620.9	5	8	29	89	SS-2	3.00	10	9	9	26	46	59	30	29	25	A-7-5 (19)	<100	
		6	4	13															
		7	5	21	78	SS-3	3.50	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
		EOB	4	10															
			6	18	78	SS-4	3.00	12	16	9	24	39	43	23	20	21	A-7-6 (10)	-	
			7	6	7														

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2.21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>355+65, 6' RT.</u>	EXPLORATION ID: <u>B-059-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>631.2 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.608864, -80.942599</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
9.5 inches Asphalt	631.2																	
STIFF, REDDISH-BROWN AND LIGHT BROWN, CLAY, LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP	630.4	1																
		2	3	10	17	SS-1	-	13	17	11	27	32	43	20	23	14	A-7-6 (10)	<100
	628.2	3	5															
STIFF, REDDISH-BROWN AND LIGHT BROWN, SILTY CLAY, LITTLE GRAVEL, SOME SAND, DAMP		4	5	13	50	SS-2	3.00	-	-	-	-	-	-	-	-	15	A-6b (V)	-
		5	3	11	56	SS-3	3.00	16	18	11	20	35	40	21	19	21	A-6b (8)	-
		6	3															
	623.7	7	4	13	50	SS-4	2.50	-	-	-	-	-	-	-	-	17	A-6b (V)	-
		EOB	5															

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>360+14, 6' LT.</u>	EXPLORATION ID: <u>B-060-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>635.8 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.609786, -80.941540</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10 inches Asphalt 8 inches Concrete	635.8																		
STIFF, REDDISH-BROWN AND BROWN, CLAY , LITTLE GRAVEL, LITTLE SAND, SOME SILT, DAMP	634.3	1																	
	632.8	2	3	4	13	50	SS-1	2.00	15	10	9	29	37	47	22	25	19	A-7-6 (13)	<100
MEDIUM STIFF TO STIFF, REDDISH-BROWN AND BROWN, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP		3	3	3	8	17	SS-2	2.00	-	-	-	-	-	-	-	-	15	A-6b (V)	-
		4	3	3	8	78	SS-3	2.00	6	18	9	27	40	40	22	18	20	A-6b (10)	-
		5	2	3	8	78	SS-3	2.00	6	18	9	27	40	40	22	18	20	A-6b (10)	-
		6	3	3	8	78	SS-3	2.00	6	18	9	27	40	40	22	18	20	A-6b (10)	-
		7	4	4	13	89	SS-4	2.50	-	-	-	-	-	-	-	-	18	A-6b (V)	-
	628.3	7	4	5	13	89	SS-4	2.50	-	-	-	-	-	-	-	-	18	A-6b (V)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>364+15, 7' RT.</u>	EXPLORATION ID: <u>B-061-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>640.2 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.610600, -80.940579</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
9.5 inches Asphalt 8.5 inches Concrete	640.2																			
STIFF TO VERY STIFF, BROWN TO REDDISH-BROWN AND LIGHT BROWN, CLAY , LITTLE TO TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	638.7	1																		
		2	4	3	10	78	SS-1	3.00	13	13	12	27	35	45	22	23	18	A-7-6 (11)	100	
		3	4	4	4	13	44	SS-2	-	-	-	-	-	-	-	-	15	A-7-6 (V)	-	
		4	4	4	5	17	50	SS-3	2.50	9	15	11	23	42	41	23	18	A-7-6 (9)	-	
		5	4	4	5	17	50	SS-3	2.50	9	15	11	23	42	41	23	18	A-7-6 (9)	-	
		6	11	4	7	18	100	SS-4	2.00	-	-	-	-	-	-	-	-	17	A-7-6 (V)	-
		632.7	7	6	7	18	100	SS-4	2.00	-	-	-	-	-	-	-	-	17	A-7-6 (V)	-
		EOB																		

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>369+11, 6' LT.</u>	EXPLORATION ID: <u>B-062-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>645.2 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.611646, -80.939455</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14 inches Asphalt 3 inches Granular Base	645.2																		
VERY STIFF, REDDISH-BROWN, CLAY , LITTLE GRAVEL, LITTLE SAND, SOME SILT, DAMP	643.8	1																	
	642.7	2	17	70	61	SS-1A	2.00	14	10	7	21	48	46	21	25	18	A-7-6 (14)	-	
DENSE TO VERY DENSE, LIGHT BROWN, STONE FRAGMENTS WITH SAND DAMP	640.7	3	27			SS-1B	-	-	-	-	-	-	-	-	-	4	A-1-b (V)	-	
		4	7	18	17	SS-2	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	-	
VERY STIFF, REDDISH-BROWN, CLAY , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	640.7	5	5	15	67	SS-3	2.00	9	12	11	25	43	43	21	22	17	A-7-6 (12)	<100	
		6	4																
	637.7	7	4	15	50	SS-4	2.50	-	-	-	-	-	-	-	-	14	A-7-6 (V)	-	

EOB

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>372+70, 7' RT.</u>	EXPLORATION ID: <u>B-063-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>646.3 (MSL)</u> EOB: <u>7.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.612366, -80.938582</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12 inches Asphalt	646.3																		
STIFF, REDDISH-BROWN AND BROWN, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP	645.3	1	4																
		2	6	15	39	SS-1	-	-	-	-	-	-	-	-	15	A-6b (V)	-		
		3	4	14	33	SS-2	4.00	9	18	15	25	33	38	19	19	14	A-6b (8)	100	
STIFF, REDDISH-BROWN AND BROWN, CLAY , SOME GRAVEL, LITTLE SAND, LITTLE SILT, DAMP	642.3	4	4	15	72	SS-3	4.50	21	12	7	17	43	42	21	21	17	A-7-6 (10)	-	
		5	5	15	72	SS-3	4.50	21	12	7	17	43	42	21	21	17	A-7-6 (10)	-	
		6	3	14	61	SS-4	2.50	-	-	-	-	-	-	-	-	17	A-7-6 (V)	-	
	639.3	EOB	5	14	61	SS-4	2.50	-	-	-	-	-	-	-	17	A-7-6 (V)	-		

NOTES: SS-2 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>376+68, 6' LT.</u>	EXPLORATION ID: <u>B-064-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>642.4 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.613213, -80.937687</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
8 inches Asphalt 7 inches Concrete	642.4																			
MEDIUM STIFF TO STIFF, REDDISH-BROWN AND BROWN, CLAY , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	641.2	1																		
		2	3	10	56	SS-1	2.50	6	9	10	28	47	48	23	25	19	A-7-6 (16)	<100		
		3	4																	
		4	3	10	67	SS-2	1.50	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-		
		5	4																	
		6	3	11	50	SS-3	2.50	11	10	10	22	47	42	22	20	17	A-7-6 (11)	-		
		7	3	8	56	SS-4	2.50	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-		
	634.9	EOB	3																	

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>380+69, 6' RT.</u>	EXPLORATION ID: <u>B-065-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>636.3 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.614024, -80.936721</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
9 inches Asphalt 8 inches Concrete	636.3																		
STIFF TO VERY STIFF, DARK BROWN TRACE GRAY AND BROWN, CLAY , LITTLE SAND, LITTLE STONE FRAGMENTS, DAMP	634.9	1																	
		2	4	5	17	67	SS-1	3.00	5	10	14	31	40	45	24	21	20	A-7-6 (13)	200
		3	5	5	7														
DENSE TO VERY DENSE, BROWN, STONE FRAGMENTS WITH SAND AND SILT , LITTLE CLAY, (SANDSTONE FRAGMENTS), DAMP	631.8	4	5	6	15	39	SS-2	-	-	-	-	-	-	-	-	-	17	A-7-6 (V)	-
		5	7	16	-	60	SS-3	-	-	-	-	-	-	-	-	-	6	A-2-4 (V)	-
		6	14	50/3"															
		7	5	4	13	28	SS-4	-	24	13	30	17	16	25	19	6	7	A-2-4 (0)	-
	628.8	EOB																	

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>384+77, 5' LT.</u>	EXPLORATION ID: <u>B-066-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>630.3 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.614820, -80.935707</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
15 inches Asphalt	630.3																		
STIFF, REDDISH-BROWN AND BROWN, SILTY CLAY , SOME GRAVEL, LITTLE SAND, DAMP	629.1	1																	
		2	5	4	10	44	SS-1	2.00	25	10	9	26	30	40	20	20	14	A-6b (8)	1400
		3	3	2	11	50	SS-2	3.00	-	-	-	-	-	-	-	-	14	A-6b (V)	-
MEDIUM STIFF TO STIFF, REDDISH-BROWN AND BROWN, SILT AND CLAY TRACE GRAVEL, SOME SAND, DAMP	625.8	4	6	2	6	39	SS-3	1.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-
		5	1	2	2														
		6	1	3	10	67	SS-4	2.00	5	12	12	35	36	34	19	15	17	A-6a (9)	-
	622.8	7	4																
		EOB																	

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>388+77, 7' RT.</u>	EXPLORATION ID: <u>B-067-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>628.4 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.615396, -80.934500</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9 inches Asphalt 8 inches Concrete	628.4																		
STIFF TO VERY STIFF, DARK BROWN WITH GRAY AND REDDISH-BROWN, SANDY SILT , LITTLE GRAVEL, LITTLE CLAY, DAMP	627.0	1																	
		2	8	11	24	11	SS-1	-	-	-	-	-	-	-	-	-	15	A-4a (V)	-
		3	6	5	14	72	SS-2	2.00	13	19	23	31	14	27	21	6	16	A-4a (2)	<100
		4	6	5	14	72	SS-2	2.00	13	19	23	31	14	27	21	6	16	A-4a (2)	<100
VERY STIFF, BROWN AND LIGHT BROWN, SILT AND CLAY , TRACE GRAVEL, SOME SILT, DAMP	622.9	5	6	7	24	67	SS-3	-	-	-	-	-	-	-	-	-	11	A-6a (V)	-
		6	3	6	10														
	620.9	7	6	6	20	61	SS-4	3.50	6	15	14	29	36	34	21	13	16	A-6a (7)	-
	620.9	EOB																	

NOTES: SS-2 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>392+74, 7' LT.</u>	EXPLORATION ID: <u>B-068-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>632.3 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.615897, -80.933249</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)	
7.5 inches Asphalt 8 inches Concrete	632.3																			
STIFF, DARK REDDISH-BROWN, CLAY , SOME GRAVEL, LITTLE SAND, SOME SILT, DAMP	631.0	1																		
		2	6	4	13	50	SS-1	2.00	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-	
		3	4	3	4	10	67	SS-2	1.50	22	11	11	28	28	45	24	21	21	A-7-6 (9)	<100
SOFT TO MEDIUM STIFF, DARK BROWN MOTTLED GRAY, SILTY CLAY , LITTLE GRAVEL, SOME SAND, MOIST	627.8	4	2	2	4	83	SS-3	0.25	15	7	16	34	28	37	24	13	28	A-6a (7)	-	
	625.8	5	4	1	6	83	SS-4	0.50	-	-	-	-	-	-	-	-	-	A-6a (V)	-	
STIFF, BROWN MOTTLED GRAY, SILTY CLAY , LITTLE SAND, TRACE STONE FRAGMENTS, DAMP	624.8	6	2	2	6	83	SS-4	1.50	-	-	-	-	-	-	-	-	-	24	A-6b (V)	-
		7																		

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>396+81, 6' RT.</u>	EXPLORATION ID: <u>B-069-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>639.9 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.616332, -80.931917</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
9 inches Asphalt 8 inches Concrete	639.9																			
VERY STIFF, BROWN TO REDDISH-BROWN, CLAY , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	638.5	1																		
		2	4	5	20	0	SS-1	-	9	9	9	28	45	49	23	26	20	A-7-6 (16)	100	
MEDIUM DENSE, LIGHT BROWN, STONE FRAGMENTS WITH SAND AND SILT , DAMP	636.4	3	8	9	29	94	SS-2	2.00	-	-	-	-	-	-	-	-	-	A-7-6 (V)	-	
	634.9	4	9	12			SS-2	-	-	-	-	-	-	-	-	-	6	A-2-4 (V)	-	
STIFF, BROWN TO REDDISH-BROWN, CLAY , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	632.4	5	3	4	15	44	SS-3	-	7	17	11	23	42	41	21	20	15	A-7-6 (10)	-	
		6	4	7																
		7	5	5	14	50	SS-4	3.00	-	-	-	-	-	-	-	-	-	15	A-7-6 (V)	-
		EOB																		

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>400+73, 5' LT.</u>	EXPLORATION ID: <u>B-070-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>642.9 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.616865, -80.930711</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
9.5 inches Asphalt 8 inches Concrete	642.9																			
MEDIUM STIFF TO STIFF, REDDISH-BROWN, CLAY , LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP	641.4	1																		
		2	3	11	78	SS-1	2.50	15	13	8	27	37	47	23	24	19	A-7-6 (12)	160		
		3	4	5																
		4	5	6	15	61	SS-2	3.00	-	-	-	-	-	-	-	15	A-7-6 (V)	-		
		5	7	6	14	67	SS-3	1.50	-	-	-	-	-	-	-	22	A-7-6 (V)	-		
		6	4	4																
		635.4	7	2	7	56	SS-4	1.50	17	13	9	20	41	44	20	24	19	A-7-6 (11)	-	
		EOB		3																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>404+79, 6' RT.</u>	EXPLORATION ID: <u>B-071-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>640.9 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.617461, -80.929490</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
9 inches Asphalt 7 inches Concrete	640.9																	
STIFF, REDDISH-BROWN AND LIGHT BROWN, CLAY , LITTLE TO TRACE GRAVEL, SOME TO LITTLE SAND, SOME SILT, DAMP	639.6	1																
		2	4	11	78	SS-1	1.50	14	14	11	28	33	42	22	20	17	A-7-6 (9)	<100
		3	3	15	72	SS-2	2.00	-	-	-	-	-	-	-	-	16	A-7-6 (V)	-
		4	5	11	50	SS-3	3.00	3	7	8	27	55	46	22	24	20	A-7-6 (15)	-
		5	3	13	89	SS-4	2.00	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-
		6	3															
		633.4	7	4	5													
		EOB																

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>409+43, 6' LT.</u>	EXPLORATION ID: <u>B-072-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>3" SAMPLER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>632.6 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.618225, -80.928170</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
8 inches Asphalt 8 inches Concrete	632.6																			
STIFF TO VERY STIFF, REDDISH-BROWN, CLAY , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	631.3	1																		
		2	6	18	56	SS-1	2.00	-	-	-	-	-	-	-	16	A-7-6 (V)	-			
		3	2	7	50	SS-2	1.00	10	12	11	28	39	47	22	25	21	A-7-6 (14)	<100		
STIFF, DARK REDDISH-BROWN TRACE GRAY, CLAY , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	628.1	4	3	2																
		5	4	13	67	SS-3	2.00	-	-	-	-	-	-	-	22	A-7-6 (V)	-			
		6	2	5																
		7	3	10	72	SS-4	1.50	5	11	10	24	50	42	21	21	22	A-7-6 (13)	-		
	625.1	EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>413+45, 6' RT.</u>	EXPLORATION ID <u>B-073-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>628.4 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.618834, -80.926982</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			SO4 ppm	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI			WC	ODOT CLASS (GI)
9.5 inches Asphalt 8 inches Concrete	628.4																		
STIFF TO VERY STIFF, REDDISH-BROWN AND LIGHT BROWN, SILT AND CLAY LITTLE TO TRACE GRAVEL, SOME SAND, DAMP	626.7	1	5																
		2	5	13	89	SS-1	2.00	17	14	19	29	21	35	20	15	15	A-6a (5)	<100	
		3	4	4															
		4	3	10	44	SS-2	2.00	-	-	-	-	-	-	-	-	13	A-6a (V)	-	
		5	4	4															
		5	5	18	67	SS-3	2.50	-	-	-	-	-	-	-	-	11	A-6a (V)	-	
		6	8	5															
	620.9	7	1	17	100	SS-4	2.50	3	13	18	29	37	35	20	15	19	A-6a (8)	-	
		7	5	7															

EOB

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>417+61, 6' LT.</u>	EXPLORATION ID: <u>B-074-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: <u></u>	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>629.4 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.619518, -80.925800</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9 inches Asphalt 8 inches Concrete	629.4																		
VERY STIFF, REDDISH-BROWN TO BROWN, CLAY , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	628.0	1																	
		2	5	18	61	SS-1	2.50	-	-	-	-	-	-	-	30	A-7-6 (V)	-		
		3	5	8															
STIFF, ORANGISH-BROWN TO BROWN, SILTY CLAY , TRACE GRAVEL, LITTLE SAND, DAMP	624.9	4	6	20	67	SS-2	3.00	4	4	11	33	48	55	25	30	25	A-7-6 (19)	<100	
		5	4	13	39	SS-3	2.50	-	-	-	-	-	-	-	21	A-6b (V)	-		
		6	3	5															
		7	5	14	100	SS-4	1.00	2	6	14	30	48	38	20	18	20	A-6b (11)	-	
	621.9	EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>421+62, 5' RT.</u>	EXPLORATION ID: <u>B-075-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>632.2 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.620106, -80.924595</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9.5 inches Asphalt 8.5 inches Concrete	630.8	1																	
STIFF, BROWN TO DARK REDDISH-BROWN TRACE GRAY, CLAY , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	627.7	2	4	10	22	SS-1	2.50	-	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-
		3	5	11	56	SS-2	2.00	9	10	12	33	36	47	24	23	22	A-7-6 (13)	<100	
STIFF TO VERY STIFF, BROWN TO DARK REDDISH-BROWN TRACE GRAY, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP	624.7	4	3	14	100	SS-3	3.00	3	10	14	31	42	37	19	18	19	A-6b (11)	-	
		5	4	20	72	SS-4	3.00	-	-	-	-	-	-	-	-	-	20	A-6b (V)	-
Below 6.5' : Orangish-Brown	624.7	6	5																
		7	6																
		EOB	8																

NOTES: SS-2 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>425+66, 7' LT.</u>	EXPLORATION ID: <u>B-076-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>632.5 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.620696, -80.923388</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8 inches Asphalt 8 inches Concrete	632.5																		
STIFF TO VERY STIFF, DARK REDDISH-BROWN, TRACE GRAY, CLAY , LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP	631.2	1																	
		2	4	15	67	SS-1	3.00	10	12	11	32	35	46	23	23	21	A-7-6 (13)	<100	
VERY STIFF, REDDISH-BROWN AND BROWN MOTTLED GRAY, CLAY , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	629.5	3	5	7															
		4	6	20	94	SS-2	3.50	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
		5	4	6	17	SS-3	2.50	2	6	7	32	53	49	24	25	23	A-7-6 (16)	-	
		6	5	6															
	625.0	7	6	20	100	SS-4	3.00	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
		EOB	8																

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21_BORING.LOGS.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>429+68, 6' RT.</u>	EXPLORATION ID: <u>B-077-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	PAGE 1 OF 1
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>630.5 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.621162, -80.922086</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			ODOT CLASS (GI)
8 inches Asphalt 8 inches Concrete	630.5																		
STIFF TO VERY STIFF, DARK REDDISH-BROWN, SILTY CLAY , SOME TO LITTLE GRAVEL, SOME SAND, DAMP @ 7.0' - 7.5' : Asphalt and Gravel Fragments	629.2	1																	
		2	3	4	11	89	SS-1	3.00	23	15	15	23	24	38	19	19	14	A-6b (5)	<100
		3	6	4	18	44	SS-2	2.00	-	-	-	-	-	-	-	-	15	A-6b (V)	-
		4	6	7	14	39	SS-3	3.50	-	-	-	-	-	-	-	-	17	A-6b (V)	-
		5	3	4	14	39	SS-3	3.50	-	-	-	-	-	-	-	-	17	A-6b (V)	-
		6	8	6	21	83	SS-4	2.00	15	10	16	20	39	37	20	17	17	A-6b (8)	-
		623.0	7	8	21	83	SS-4	2.00	15	10	16	20	39	37	20	17	17	A-6b (8)	-
		EOB																	

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:25 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>434+14, 7' LT.</u>	EXPLORATION ID: <u>B-078-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>629.1 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.621622, -80.920787</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
10 inches Asphalt 8 inches Concrete	629.1																			
STIFF TO VERY STIFF, BROWN TO RED-BROWN, CLAY , "AND" SILT, LITTLE GRAVEL, TRACE SAND, DAMP	627.6	1																		
		2	3	4	13	44	SS-1	2.00	20	2	2	71	5	45	21	24	20	A-7-6 (15)	140	
		3	7	5																
STIFF TO VERY STIFF, BROWN TO RED-BROWN, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP	624.6	4	8	12	28	67	SS-2	1.00	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-	
		5	8	8	24	72	SS-3	4.00	-	-	-	-	-	-	-	-	22	A-6b (V)	-	
		6	5	9																
		7	5	6	15	100	SS-4	3.00	3	12	18	26	41	38	20	18	20	A-6b (10)	-	
	621.6	EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:26 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>437+72, 6' RT.</u>	EXPLORATION ID: <u>B-079-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.4 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.621955, -80.919428</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8.5 inches Asphalt 8 inches Concrete	627.4																		
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, DAMP	626.0	1																	
		2	11	22	89	SS-1	-	20	25	32	18	5	NP	NP	NP	6	A-3a (0)	<100	
		3	4	6															
	622.9	4	4	5	13	11	SS-2	-	-	-	-	-	-	-	-	9	A-3a (V)	-	
		5	3	5															
		6	4	5	13	33	SS-3	-	-	-	-	-	-	-	-	14	A-6b (V)	-	
STIFF, DARK BROWN TRACE REDDISH-BROWN AND GRAY, SILTY CLAY , SOME SAND, DAMP		7	3	5															
	619.9	7	4	6	14	72	SS-4	3.00	0	9	17	34	40	40	20	20	18	A-6b (12)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:26 - C:\P\WORKING\EAST01D\1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>441+71, 7' LT.</u>	EXPLORATION ID: <u>B-080-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.4 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.622280, -80.918074</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8 inches Asphalt 8 inches Concrete	627.4																		
VERY STIFF, DARK BROWN TRACE GRAY, SILTY CLAY , TRACE GRAVEL, SOME SAND, DAMP	626.1	1																	
		2	8	24	44	SS-1	3.50	-	-	-	-	-	-	-	-	-	17	A-6b (V)	-
		3	6	18	33	SS-2	-	5	14	20	30	31	37	19	18	15	A-6b (8)	<100	
STIFF, RED-BROWN AND BROWN, CLAY , "AND" SILT, LITTLE SAND, DAMP	622.9	4	6	7															
		5	4	15	67	SS-3	2.00	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-	
		6	6	15	56	SS-4	3.50	0	6	11	36	47	48	24	24	23	A-7-6 (15)	-	
		7	5	15	56	SS-4	3.50	0	6	11	36	47	48	24	24	23	A-7-6 (15)	-	
	619.9	EOB																	

NOTES: SS-2 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:26 - C:\P\WORKING\EAST01D1910318\20200111 MOE-7-2-21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>445+77, 6' RT.</u>	EXPLORATION ID: <u>B-081-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>3" SAMPLER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>634.1 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/18/21</u> END: <u>1/18/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.622468, -80.916653</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9 inches Asphalt 12 inches Concrete	634.1	1																	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND LITTLE SILT, TRACE CLAY, DAMP	632.4	2	7																
		3	6 7	18	67	SS-1	-	23	28	34	12	3	NP	NP	NP	7	A-1-b (0)	<100	
	629.1	4	5 6	17	67	SS-2	-	-	-	-	-	-	-	-	-	7	A-1-b (V)	-	
		5	38 23	55	33	SS-3	-	-	-	-	-	-	-	-	-	9	A-2-4 (V)	-	
MEDIUM DENSE TO DENSE, BROWN, GRAVEL WITH SAND AND SILT TRACE CLAY, DAMP		6	16																
	626.1	7	5 3	11	50	SS-4	-	30	19	27	15	9	20	15	5	10	A-2-4 (0)	-	
		8																	

EOB

NOTES: REBAR IN CONCRETE PREVENTED PENETRATION OF FLIGHT AUGER. 3" SAMPLER WAS USED TO ADVANCE BORING.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 8/2/21 16:26 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2-21_BORING.LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>450+48, 6' LT.</u>	EXPLORATION ID: <u>B-082-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>650.8 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.622673, -80.915001</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10 inches Asphalt 8 inches Concrete	650.8																		
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	649.3	1	8																
		2	10	29	94	SS-1	-	5	43	40	9	3	NP	NP	NP	4	A-3a (0)	<100	
		3	6																
	646.3	4	4	11	78	SS-2	-	-	-	-	-	-	-	-	-	5	A-3a (V)	-	
MEDIUM DENSE, BROWN, GRAVEL AND/OR STONE FRAGMENTS WITH SAND TRACE SILT, TRACE CLAY, DAMP		5	4																
		6	3	10	94	SS-3	-	15	38	38	8	1	NP	NP	NP	5	A-1-b (0)	-	
		7	4	14	100	SS-4	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	-	
	643.3																		

EOB

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:26 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>454+46, 6' RT.</u>	EXPLORATION ID: <u>B-083-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>662.1 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE 1 OF 1
START: <u>1/13/21</u> END: <u>1/13/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.622710, -80.913588</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9 inches Asphalt 8 inches Concrete	662.1																		
MEDIUM DENSE, BROWN, GRAVEL WITH SAND LITTLE SILT, TRACE CLAY, DAMP	660.7	1																	
		2	8	21	44	SS-1	-	43	22	20	12	3	NP	NP	NP	5	A-1-b (0)	320	
		3	5																
		4	4	13	67	SS-2	-	-	-	-	-	-	-	-	-	7	A-1-b (V)	-	
		5	5	17	67	SS-3	-	-	-	-	-	-	-	-	-	5	A-1-b (V)	-	
		6	6																
		654.6	7	4	14	-	SS-4	-	48	15	27	8	2	NP	NP	NP	6	A-1-b (0)	-

EOB

NOTES: SS-1 SAMPLE QUANTITY SUPPLEMENTED WITH GRAB SAMPLE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 8/2/21 16:26 - C:\P\WORKING\EAST01D1910318\20200111_MOE-7-2.21 BORING LOGS.GPJ

PROJECT: <u>MOE-7-02.21</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55- TRUCK</u>	STATION / OFFSET: <u>458+51, 6' LT.</u>	EXPLORATION ID: <u>B-084-0-20</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / DM</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 7</u>	
PID: <u>109278</u> SFN: _____	DRILLING METHOD: <u>5.5" FLIGHT AUGER</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>667.1 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE 1 OF 1
START: <u>1/14/21</u> END: <u>1/14/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.622742, -80.912153</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
10 inches Asphalt 8 inches Concrete	667.1																			
MEDIUM DENSE, BROWN, GRAVEL WITH SAND LITTLE TO TRACE SILT, TRACE CLAY, LITTLE ROUNDED GRAVEL	665.6	1																		
		2	4	5	14	33	SS-1	-	-	-	-	-	-	-	-	-	-	14	A-1-b (V)	-
		3	6	5	15	67	SS-2	-	49	18	18	11	4	NP	NP	NP	7	A-1-b (0)	100	
		4	5	6	14	67	SS-3	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	-	
		5	3	4	14	67	SS-3	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	-	
		6	8	6	18	89	SS-4	-	38	28	21	9	4	NP	NP	NP	9	A-1-b (0)	-	
	659.6	7	6	7	18	89	SS-4	-	38	28	21	9	4	NP	NP	NP	9	A-1-b (0)	-	

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS