

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>236+02, 8' RT.</u>	EXPLORATION ID <u>B-001-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>677.2 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.499827, -81.435078</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
12" ASPHALT	677.2																			
STIFF TO VERY STIFF, RED-BROWN, <b>SILTY CLAY</b> , LITTLE SAND, TRACE GRAVEL, ASPHALT FRAGMENTS, DAMP	676.2	1																		
		2	4	5	14	33	SS-1	-	-	-	-	-	-	-	-	-	17	A-6b (V)	-	
		3	4	6	17	39	SS-2	2.00	10	10	10	31	39	33	17	16	15	A-6b (9)	<100	
		4	4	5	13	33	SS-3	2.50	-	-	-	-	-	-	-	-	18	A-6b (V)	-	
		5	5	4	21	100	SS-4	3.50	5	6	9	- 80 -	-	39	20	19	19	A-6b (12)	-	
		6	5	6																
		669.7	7	6	9															
		EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>240+01, 7' LT.</u>	EXPLORATION ID <u>B-002-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>662.2 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.499636, -81.433684</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
18" ASPHALT	662.2																		
	660.7	1																	
STIFF TO VERY STIFF, RED-BROWN, YELLOW-BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP		2	5	4	11	67	SS-1	-	-	-	-	-	-	-	-	-	15	A-6b (V)	-
		3	6	4															
		4	5	5	14	39	SS-2	3.50	4	8	15	34	39	33	17	16	15	A-6b (10)	<100
		5	4	7	21	61	SS-3	3.00	-	-	-	-	-	-	-	-	16	A-6b (V)	-
VERY STIFF, YELLOW-BROWN, <b>SILT AND CLAY</b> , SOME GRAVEL, LITTLE SAND, DAMP	656.2	6	5	8															
	654.7	7	6	7	18	67	SS-4	-	35	4	15	26	20	31	20	11	13	A-6a (3)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>243+99, 7' RT.</u>	EXPLORATION ID <u>B-003-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>653.1 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.499368, -81.432316</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT	653.1																		
STIFF, RED-BROWN, SOME BLACK, <b>SILT AND CLAY</b> , SOME GRAVEL, SOME SAND, DAMP	651.9	1																	
		2	7	5	15	33	SS-1	-	32	12	11	26	19	31	18	13	11	A-6a (3)	-
VERY STIFF, RED-BROWN, <b>CLAY</b> , "AND" SILT, LITTLE GRAVEL, LITTLE SAND, DAMP	650.1	3	5	6	20	67	SS-2	3.50	14	4	11	36	35	41	22	19	20	A-7-6 (11)	<100
		4	6	8															
		5	4	6	18	67	SS-3	3.50	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-
		6	7	7															
		7	6	6	17	33	SS-4	-	-	-	-	-	-	-	-	-	10	A-7-6 (V)	-
	645.6	EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>247+98, 7' LT.</u>	EXPLORATION ID <u>B-004-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>646.1 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.499259, -81.430908</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
12" ASPHALT 6" GRANULAR BASE	646.1																			
STIFF TO VERY STIFF, BROWN, <b>SILT AND CLAY</b> , "AND" SAND, LITTLE GRAVEL, DAMP	644.6	1																		
		2	3	5	17	33	SS-1	-	-	-	-	-	-	-	-	17	A-6a (V)	-		
		3	4	7																
LOOSE TO MEDIUM DENSE, RED-BROWN, YELLOW-BROWN, <b>GRAVEL AND/OR STONE</b> <b>FRAGMENTS WITH SAND, SILT, AND CLAY</b> , DAMP	641.6	4	5	5	14	67	SS-2	-	11	13	26	30	20	32	20	12	14	A-6a (4)	-	
		5	5	4	10	100	SS-3	-	30	16	23	18	13	33	19	14	15	A-2-6 (1)	<100	
		6	2	3																
		7	3	5	11	78	SS-4	-	-	-	-	-	-	-	-	-	14	A-2-6 (V)	-	
	638.6	EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>251+96, 5' RT.</u>	EXPLORATION ID <u>B-005-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>641.0 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.499208, -81.429500</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
16" ASPHALT 8" CONCRETE	641.0	1																	
MEDIUM DENSE, BROWN, BLACK, GRAVEL AND STONE FRAGMENTS WITH SAND, DRY	639.0	2	6	15	6	SS-1	-	-	-	-	-	-	-	-	-	-	6	A-1-b (V)	-
VERY STIFF, RED-BROWN, SILT AND CLAY, "AND" SAND, LITTLE TO SOME GRAVEL, DAMP	637.5	3	5	24	78	SS-2	3.50	11	11	31	28	19	31	19	12	8	A-6a (3)	250	
		4	8	25	100	SS-3	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
		5	9	20	100	SS-4	3.00	21	16	24	25	14	30	18	12	15	A-6a (1)	-	
		6	9																
	633.0	7	6	7															
		8	7																
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>255+88, 7' LT.</u>	EXPLORATION ID <u>B-006-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>634.9 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.499638, -81.428229</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO <sub>4</sub> ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
17" ASPHALT 7" CONCRETE	634.9	1																	
STIFF TO VERY STIFF, RED-BROWN, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP TO MOIST	632.9	2	5																
		3	4	11	67	SS-1	2.50	-	-	-	-	-	-	-	14	A-6a (V)	-		
		4	3	12	28	SS-2	2.00	8	8	21	39	24	32	18	14	19	A-6a (7)	<100	
	629.9	5	3	8	33	SS-2	2.00	8	8	21	39	24	32	18	14	19	A-6a (7)	<100	
LOOSE, GRAY, BROWN, <b>GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT</b> , LITTLE CLAY, DAMP	628.4	6	3	8	33	SS-3	-	32	10	24	22	12	27	17	10	13	A-2-4 (0)	-	
MEDIUM STIFF TO STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP	626.9	7	2	7	100	SS-4	1.50	3	6	18	45	28	34	19	15	22	A-6a (10)	-	
		8	3																

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>259+92, 7' RT.</u>	EXPLORATION ID <u>B-007-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>634.2 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.500085, -81.426919</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	634.2																		
MEDIUM STIFF TO STIFF, GRAY, BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, LITTLE SAND, DAMP	632.5	1																	
		2	4																
		3	3	7	39	SS-1	3.00	-	-	-	-	-	-	-	19	A-7-6 (V)	-		
		4	3																
	629.2	5	3	10	100	SS-2	3.00	6	6	8	38	42	45	24	21	23	A-7-6 (13)	170	
		6	4																
		7	4																
VERY STIFF, RED-BROWN, <b>SILTY CLAY</b> , LITTLE SAND, DAMP		8	6	20	100	SS-3	3.00	0	0	15	45	40	37	19	18	20	A-6b (11)	-	
		9	8																
	626.2	EOB	8	24	100	SS-4	4.00	-	-	-	-	-	-	-	17	A-6b (V)	-		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>263+92, 9' LT.</u>	EXPLORATION ID <u>B-008-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>635.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.500603, -81.425668</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 10" GRANULAR BASE	635.6	1																	
VERY STIFF, RED-BROWN, BROWN, GRAY, <b>SILT AND CLAY</b> , SOME GRAVEL, SOME SAND, DAMP	633.6	2	3																
		3	7	17	56	SS-1	-	-	-	-	-	-	-	-	13	A-6a (V)	-		
VERY STIFF, RED-BROWN, <b>CLAY</b> , LITTLE GRAVEL, LITTLE SAND, SOME SILT, DAMP	630.6	4	5																
		5	6	24	78	SS-2	-	25	17	12	26	20	33	20	13	13	A-6a (3)	<100	
	627.6	6	7																
		7	8	22	67	SS-3	-	10	9	10	31	40	42	23	19	15	A-7-6 (11)	-	
		8	5																
		EOB	6	22	61	SS-4	-	-	-	-	-	-	-	-	16	A-7-6 (V)	-		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>267+82, 7' RT.</u>	EXPLORATION ID <u>B-009-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>647.7 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.501366, -81.424755</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 6" GRANULAR BASE	647.7																		
MEDIUM DENSE, RED-BROWN, YELLOW-BROWN, GRAVEL AND/OR STONE FRAGMENTS WITH SAND, SILT, AND CLAY, DAMP	646.2	1																	
VERY STIFF, RED-BROWN, GRAY, SILT AND CLAY, SOME GRAVEL, SOME SAND, DAMP	644.7	2	7	4	11	39	SS-1	-	-	-	-	-	-	-	-	-	6	A-2-7 (V)	-
VERY STIFF, RED-BROWN, GRAY, SANDY SILT, SOME GRAVEL, LITTLE CLAY, DAMP	643.2	3	3	8	25	78	SS-2	2.50	30	13	10	28	19	34	20	14	11	A-6a (4)	150
		4	10	10															
		5	10	10	27	67	SS-3	-	26	18	15	27	14	29	19	10	9	A-4a (1)	-
		6	7	7															
	640.2	7	7	7	17	67	SS-4	-	-	-	-	-	-	-	-	-	11	A-4a (V)	-
		EOB																	

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

NOTES: NONE  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>271+70, 7' LT.</u>	EXPLORATION ID <u>B-010-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>653.0 (MSL)</u> EOB: <u>6.8 ft.</u>	
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.502358, -81.425082</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 5" GRANULAR BASE	653.0																		
VERY STIFF, RED-BROWN, GRAY, <b>SILT AND CLAY</b> , SOME GRAVEL, LITTLE SAND, DAMP	651.4	1																	
		2	5																
	649.5	3	8	20	67	SS-1	2.50	26	11	7	41	15	33	21	12	10	A-6a (5)	-	
HARD, RED-BROWN, <b>SANDY SILT</b> , SOME GRAVEL, LITTLE CLAY, DRY		4	7																
		5	8	32	100	SS-2	-	21	13	9	40	17	32	22	10	8	A-4a (4)	190	
		6	25																
	646.2	6	28	80	100	SS-3	-	-	-	-	-	-	-	-	-	6	A-4a (V)	-	
Below 6.5' : Light Gray		EOB	29																
			50/4"	-	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-4a (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>275+66, 8' RT.</u>	EXPLORATION ID <u>B-011-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>648.6 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE 1 OF 1
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.503016, -81.426186</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
24" ASPHALT	648.6	1																	
STIFF TO VERY STIFF, RED-BROWN, <b>SILT AND CLAY</b> , SOME GRAVEL, SOME SAND, TRACE ASPHALT, DAMP	646.6	2	9																
		3	3	8	11	SS-1	3.00	-	-	-	-	-	-	-	10	A-6a (V)	-		
		4	4	6	17	33	SS-2	-	23	16	11	28	22	34	20	14	13	A-6a (4)	150
		5	4	6	10	15	SS-3	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-
HARD, RED-BROWN, GRAY, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP	642.1	6	12	64	67	SS-4	-	3	6	8	41	42	38	22	16	16	A-6b (10)	-	
		7	22																
	640.6	8	24																
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>279+73, 7' LT.</u>	EXPLORATION ID <u>B-012-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>638.0 (MSL)</u> EOB: <u>8.5 ft.</u>	
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.503719, -81.427290</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
19" ASPHALT 8" CONCRETE	638.0	1																	
	635.7	2																	
VERY STIFF TO HARD, RED-BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP		3	6	27	61	SS-1	-	-	-	-	-	-	-	-	12	A-6a (V)	-		
		4	10																
		5	25	116	78	SS-2	-	3	6	8	54	29	35	22	13	9	A-6a (9)	110	
	632.5	6	36																
HARD, RED-BROWN, LIGHT GRAY, <b>SILT AND CLAY</b> , TRACE GRAVEL, LITTLE SAND, DRY		7	47	105	78	SS-3	-	2	5	6	55	32	36	21	15	8	A-6a (10)	-	
	631.0	8	30																
HARD, LIGHT GRAY, <b>SILT AND CLAY</b> , TRACE GRAVEL, LITTLE SAND, DRY		7	34																
	629.5	8	41	49	78	SS-4	-	-	-	-	-	-	-	-	6	A-6a (V)	-		
		8	24																
		8	21																
		8	14																

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>283+78, 8' RT.</u>	EXPLORATION ID <u>B-013-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>632.4 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.504805, -81.427551</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
15" ASPHALT 8" CONCRETE	632.4																		
	630.4	1																	
STIFF, BROWN, <b>CLAY</b> , LITTLE SAND, SOME SILT, DAMP TO MOIST		2	3																
		3	4	13	78	SS-1	2.50	-	-	-	-	-	-	-	28	A-7-6 (V)	-		
		4	4	5															
	627.4	4	4	15	100	SS-2	2.00	0	3	15	30	52	51	22	29	24	A-7-6 (18)	<100	
		5	4	7															
STIFF TO VERY STIFF, RED-BROWN, <b>CLAY</b> , LITTLE SAND, SOME SILT, DAMP		5	4																
		6	4	14	78	SS-3	2.00	0	2	8	32	58	61	23	38	9	A-7-6 (20)	-	
		7	4	6															
	624.4	7	4	5	18	100	SS-4	2.00	-	-	-	-	-	-	-	25	A-7-6 (V)	-	
		8	4	8															
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>287+88, 7' LT.</u>	EXPLORATION ID <u>B-014-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>629.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.505815, -81.427003</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
15" ASPHALT 6" CONCRETE	629.6																		
MEDIUM STIFF TO STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP	627.8	1																	
		2	3	8	78	SS-1	2.50	1	3	16	41	39	39	21	18	21	A-6b (11)	<100	
		3	3																
	624.6	4	4	15	100	SS-2	2.00	-	-	-	-	-	-	-	-	18	A-6b (V)	-	
		5	5																
STIFF TO VERY STIFF, BROWN, YELLOW-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP		6	4	17	100	SS-3	4.00	0	2	5	62	31	46	22	24	21	A-7-6 (15)	-	
		7	5																
	621.6	8	3	15	100	SS-4	4.00	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-	
		EOB	7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>291+86, 6' RT.</u>	EXPLORATION ID <u>B-015-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.5 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.506643, -81.426081</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	627.5																		
	625.8	1																	
STIFF, DARK BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, MOIST		2	3																
		3	4	11	67	SS-1	2.00	-	-	-	-	-	-	-	26	A-7-6 (V)	-		
	622.5	4	3	10	78	SS-2	2.00	0	1	7	46	46	43	23	20	25	A-7-6 (13)	<100	
		5	4																
VERY STIFF, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP		6	6	18	100	SS-3	3.00	0	0	4	47	49	48	26	22	25	A-7-6 (14)	-	
		7	7	24	100	SS-4	4.50	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
	619.5	8	10																
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>295+95, 7' LT.</u>	EXPLORATION ID <u>B-016-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>626.0 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.507538, -81.425206</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
11" ASPHALT 9" CONCRETE	626.0																		
MEDIUM STIFF TO STIFF, DARK BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP	624.3	1																	
		2	5																
		3	4	11	100	SS-1	2.00	-	-	-	-	-	-	-	-	27	A-7-6 (V)	-	
		4	2	7	100	SS-2	1.50	0	0	7	47	46	41	22	19	26	A-7-6 (12)	<100	
	621.0	5	3																
STIFF, BROWN, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP TO MOIST		6	3	11	100	SS-3	2.50	0	1	5	51	43	45	23	22	24	A-7-6 (14)	-	
		7	2	11	100	SS-4	2.50	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
	618.0	8	3																
		EOB	5																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>299+85, 6' RT.</u>	EXPLORATION ID <u>B-017-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>625.0 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.508351, -81.424305</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 8" CONCRETE	625.0																		
	623.2	1																	
MEDIUM STIFF TO STIFF, DARK BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP TO MOIST		2	5																
		3	6	15	39	SS-1	3.00	-	-	-	-	-	-	-	20	A-6b (V)	-		
		4	2																
		5	3	7	39	SS-2	3.50	1	3	12	48	36	38	21	17	21	A-6b (11)	-	
		6	3	11	100	SS-3	1.00	0	0	18	47	35	38	21	17	24	A-6b (11)	<100	
		7	2																
	617.0	8	3	7	100	SS-4	0.50	-	-	-	-	-	-	-	24	A-6b (V)	-		
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>303+84, 9' LT.</u>	EXPLORATION ID <u>B-018-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>623.6 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE <u>1 OF 1</u>
START: <u>3/1/21</u> END: <u>3/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.509229, -81.423458</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
19" ASPHALT 5" GRANULAR BASE	623.6	1																	
MEDIUM STIFF, DARK BROWN, <b>SILT</b> , TRACE GRAVEL, SOME SAND, SOME CLAY, DAMP TO MOIST	621.6	2	3																
		3	3	8	67	SS-1	1.00	-	-	-	-	-	-	-	19	A-4b (V)	-		
		4	3																
	618.6	5	2	7	100	SS-2	1.00	1	1	26	50	22	28	19	9	20	A-4b (7)	170	
		6	1																
SOFT TO MEDIUM STIFF, DARK BROWN, <b>SILT AND CLAY</b> , SOME SAND, MOIST		7	2	6	100	SS-3	0.50	-	-	-	-	-	-	-	28	A-6a (V)	-		
		8	1																
	615.6	EOB	1	3	100	SS-4	0.50	0	0	20	51	29	36	22	14	30	A-6a (10)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>307+83, 7' RT.</u>	EXPLORATION ID <u>B-019-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>624.5 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.510053, -81.422524</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
14" ASPHALT 8" CONCRETE	624.5																	
	622.7	1																
MEDIUM STIFF TO STIFF, BROWN, <b>SILT AND CLAY</b> , SOME SAND, MOIST		2	4															
		3	3	8	0	SS-1	-	-	-	-	-	-	-	-	-	-	-	-
		4	3															
	619.5	4	4	11	100	SS-2	2.50	0	1	26	44	29	33	19	14	20	A-6a (9)	<100
		5	4															
STIFF TO VERY STIFF, BROWN, <b>SILTY CLAY</b> , LITTLE SAND, DAMP TO MOIST		6	6	17	100	SS-3	2.50	0	0	15	51	34	38	21	17	21	A-6b (11)	-
		7	3															
	616.5	7	4	11	100	SS-4	0.50	-	-	-	-	-	-	-	-	24	A-6b (V)	-
		8	4															
		EOB																

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>311+82, 6' LT.</u>	EXPLORATION ID <u>B-020-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>626.1 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.510934, -81.421680</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 8" CONCRETE	626.1	1																	
STIFF TO VERY STIFF, BROWN, RED-BROWN, <b>CLAY</b> , "AND" SILT, LITTLE SAND, DAMP	624.3	2	5																
		3	3	11	67	SS-1	3.00	-	-	-	-	-	-	-	22	A-7-6 (V)	-		
STIFF TO VERY STIFF, BROWN, RED-BROWN, <b>SILT AND CLAY</b> , SOME SAND, DAMP	621.1	4	4	14	100	SS-2	2.50	0	0	13	46	41	42	24	18	22	A-7-6 (12)	<100	
		5	5	15	100	SS-3	4.00	-	-	-	-	-	-	-	21	A-6a (V)	-		
	618.1	6	5	15	100	SS-4	4.50	0	0	32	41	27	31	20	11	20	A-6a (7)	-	
		7	5																
		8	6																
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>315+79, 7' RT.</u>	EXPLORATION ID <u>B-021-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>625.9 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/22/21</u> END: <u>2/22/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.511827, -81.420875</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 10" CONCRETE	625.9	1																	
STIFF TO VERY STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, LITTLE SAND, DAMP	623.9	2	5																
		3	4	14	100	SS-1	2.50	-	-	-	-	-	-	-	19	A-7-6 (V)	-		
		4	4	14	78	SS-2	3.50	1	0	10	49	40	42	23	19	23	A-7-6 (12)	<100	
		5	4	13	100	SS-3	2.00	0	0	10	50	40	42	22	20	23	A-7-6 (12)	-	
		6	4	13	100	SS-3	2.00	0	0	10	50	40	42	22	20	23	A-7-6 (12)	-	
		7	3	17	100	SS-4	3.00	-	-	-	-	-	-	-	-	22	A-7-6 (V)	-	
		8	5	17	100	SS-4	3.00	-	-	-	-	-	-	-	-	22	A-7-6 (V)	-	
	617.9	EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>319+78, 7' LT.</u>	EXPLORATION ID <u>B-022-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>625.2 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.512822, -81.420283</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 6" CONCRETE	625.2	1																	
MEDIUM STIFF TO STIFF, BROWN, RED-BROWN, <b>SILT AND CLAY</b> , SOME SAND, MOIST	623.5	2	4																
		3	4	10	100	SS-1	1.50	0	1	28	41	30	33	18	15	22	A-6a (9)	<100	
		4	2																
	620.2	5	3	7	100	SS-2	1.00	-	-	-	-	-	-	-	-	25	A-6a (V)	-	
		6	3	10	100	SS-3	2.50	0	9	10	46	35	37	21	16	23	A-6b (10)	-	
STIFF TO VERY STIFF, BROWN, RED-BROWN, <b>SILTY CLAY</b> , LITTLE SAND, MOIST		7	3	10	100	SS-4	3.00	-	-	-	-	-	-	-	-	23	A-6b (V)	-	
	617.2	8	3	10	100	SS-4	3.00	-	-	-	-	-	-	-	-	23	A-6b (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>323+77, 6' RT.</u>	EXPLORATION ID <u>B-023-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.2 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.513793, -81.419626</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO <sub>4</sub> ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 8" CONCRETE	627.2																		
	625.4	1																	
STIFF TO VERY STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, MOIST		2	5	15	56	SS-1	4.00	-	-	-	-	-	-	-	22	A-6b (V)	-		
		3	4	14	100	SS-2	2.00	0	1	18	42	39	39	21	18	31	A-6b (11)	100	
		4	4	14	100	SS-2	2.00	0	1	18	42	39	39	21	18	31	A-6b (11)	100	
		5	3	10	100	SS-3	2.50	1	0	14	51	34	40	23	17	22	A-6b (11)	-	
		6	3	10	100	SS-3	2.50	1	0	14	51	34	40	23	17	22	A-6b (11)	-	
		7	4	17	100	SS-4	2.50	-	-	-	-	-	-	-	22	A-6b (V)	-		
	619.2	8	5	17	100	SS-4	2.50	-	-	-	-	-	-	-	22	A-6b (V)	-		
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>327+76, 9' LT.</u>	EXPLORATION ID <u>B-024-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>627.6 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.514798, -81.419065</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10" ASPHALT 7" CONCRETE	627.6																		
STIFF TO VERY STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, TRACE SAND, DAMP	626.2	1																	
		2	4	13	67	SS-1	2.50	-	-	-	-	-	-	-	26	A-7-6 (V)	-		
		3	4	5															
STIFF TO VERY STIFF, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP	623.1	4	5	15	100	SS-2	3.50	3	2	5	45	45	45	23	22	22	A-7-6 (14)	<100	
		5	5	15	100	SS-3	3.50	0	0	7	50	43	44	26	18	23	A-7-6 (12)	-	
		6	7																
		7	7	21	100	SS-4	3.00	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-	
	620.1	EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>331+73, 5' RT.</u>	EXPLORATION ID <u>B-025-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>631.9 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.515815, -81.418559</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO <sub>4</sub> ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10" ASPHALT 8" CONCRETE	631.9																		
MEDIUM STIFF TO STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, LITTLE SAND, MOIST	630.4	1																	
		2	3																
		3	5	14	67	SS-1	2.50	-	-	-	-	-	-	-	20	A-6a (V)	-		
		4	2																
	626.9	5	3	8	100	SS-2	1.50	2	3	8	50	37	35	21	14	24	A-6a (10)	<100	
		6	4																
STIFF TO VERY STIFF, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, TRACE SAND, MOIST		7	5	15	100	SS-3	2.50	1	1	8	47	43	47	22	25	24	A-7-6 (15)	-	
		8	6																
	623.9	7	3	21	100	SS-4	2.50	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-	
		8	6																
		EOB	9																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>335+69, 9' LT.</u>	EXPLORATION ID <u>B-026-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>640.7 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.516893, -81.418382</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10" ASPHALT 8" CONCRETE	640.7																		
STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP	639.2	1	4																
STIFF, YELLOW-BROWN, BROWN, <b>SILTY CLAY</b> , "AND" SAND, TRACE GRAVEL, MOIST	637.7	2	6	20	78	SS-1	3.50	3	3	12	46	36	39	20	19	20	A-6b (12)	120	
		3	5	8															
		4	4	14	100	SS-2	-	1	9	28	30	32	37	18	19	20	A-6b (9)	-	
		5	3	6															
		6	4	13	100	SS-3	-	-	-	-	-	-	-	-	-	21	A-6b (V)	-	
		7	5	5															
	633.2	EOB	4	13	100	SS-4	-	-	-	-	-	-	-	-	-	26	A-6b (V)	-	

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>339+06, 5' RT.</u>	EXPLORATION ID <u>B-027-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>647.9 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE <u>1 OF 1</u>
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.517814, -81.418251</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9" ASPHALT 10" CONCRETE	647.9																		
	646.3	1																	
STIFF TO VERY STIFF, BROWN, YELLOW-BROWN, SILTY CLAY, TRACE GRAVEL, TRACE SAND, MOIST		2	3	13	67	SS-1	4.00	-	-	-	-	-	-	-	18	A-6b (V)	-		
		3	3	6															
	642.9	4	3	5	100	SS-2	2.00	6	1	4	60	29	36	20	16	23	A-6b (10)	<100	
		5	3	6															
STIFF TO VERY STIFF, BROWN, YELLOW-BROWN, SILT AND CLAY, TRACE GRAVEL, TRACE SAND, DAMP TO MOIST		6	3	5	14	100	SS-3	2.50	1	2	6	66	25	33	21	12	23	A-6a (9)	-
		7	3	5															
	639.9	8	3	5	17	100	SS-4	1.50	-	-	-	-	-	-	-	-	21	A-6a (V)	-
		EOB																	

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/21/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>343+69, 6' LT.</u>	EXPLORATION ID <u>B-028-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>645.3 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE <u>1 OF 1</u>
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.519080, -81.418115</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9" ASPHALT 8" CONCRETE	645.3																		
STIFF TO VERY STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP	643.9	1																	
		2	4	14	61	SS-1	3.50	8	6	13	40	33	38	19	19	18	A-6b (11)	-	
VERY STIFF, YELLOW-BROWN, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP	642.3	3	5																
		4	6	18	100	SS-2	2.50	6	8	25	36	25	32	19	13	17	A-6a (6)	<100	
STIFF, RED-BROWN, YELLOW-BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, MOIST	640.8	5	4																
		6	3	10	100	SS-3	1.50	1	2	16	42	39	40	20	20	24	A-6b (12)	-	
		7	4																
	637.8	EOB	4	13	100	SS-4	2.00	-	-	-	-	-	-	-	-	31	A-6b (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>347+09, 8' RT.</u>	EXPLORATION ID <u>B-029-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>637.8 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.519908, -81.417577</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
12" ASPHALT 4" GRANULAR BASE	637.8																			
STIFF, BROWN, <b>SILTY CLAY</b> , LITTLE GRAVEL, SOME SAND, DAMP	636.5	1																		
		2	4	3	13	61	SS-1	2.00	-	-	-	-	-	-	-	17	A-6b (V)	-		
		3	2	6																
STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, LITTLE SAND, MOIST	633.3	4	4	5	13	78	SS-2	1.50	13	7	15	32	33	38	21	17	19	A-6b (9)	<100	
		5	2	4	13	100	SS-3	2.00	5	5	13	39	38	43	22	21	22	A-7-6 (13)	-	
		6	4	5																
		7	4	5	13	67	SS-4	1.00	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
	630.3	EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>351+77, 6' LT.</u>	EXPLORATION ID <u>B-030-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>630.7 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.520759, -81.416357</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8" ASPHALT 8" CONCRETE	630.7																		
MEDIUM STIFF TO STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP	629.4	1																	
		2	3	4	13	78	SS-1	2.00	5	4	10	44	37	37	22	15	19	A-6a (10)	<100
		3	3	5															
	626.2	4	2	3	7	100	SS-2	1.50	-	-	-	-	-	-	-	-	21	A-6a (V)	-
MEDIUM STIFF TO STIFF, BROWN, RED-BROWN, <b>SILTY CLAY</b> , LITTLE SAND, MOIST		5	2	3	8	100	SS-3	1.50	0	1	14	47	38	36	20	16	23	A-6b (10)	-
		6	3	3															
	623.2	7	5	5	14	100	SS-4	3.00	-	-	-	-	-	-	-	-	21	A-6b (V)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>356+58, 7' RT.</u>	EXPLORATION ID <u>B-031-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>626.6 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.521001, -81.414691</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
4" ASPHALT 10" CONCRETE	626.6																			
STIFF TO VERY STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, MOIST	625.4	1																		
		2	6	4	13	56	SS-1	3.50	-	-	-	-	-	-	-	-	18	A-6b (V)	-	
		3	2	4	5															
		4	2	4	4	11	100	SS-2	2.50	2	2	15	47	34	37	19	18	21	A-6b (11)	<100
VERY STIFF, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP	620.6	5	3	6	18	100	SS-3	3.00	-	-	-	-	-	-	-	-	28	A-6b (V)	-	
		6	4	7	7															
	619.1	7	7	10	24	100	SS-4	3.50	0	1	5	35	59	48	24	24	24	A-7-6 (15)	-	
		EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>359+84, 7' LT.</u>	EXPLORATION ID <u>B-032-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>630.5 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.521095, -81.413542</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
6" ASPHALT 8" CONCRETE	630.5																		
STIFF TO VERY STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP	629.3	1																	
		2	4	14	100	SS-1	2.50	7	4	6	48	35	35	20	15	18	A-6a (10)	<100	
MEDIUM STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, TRACE SAND, DAMP	627.5	3	3																
		4	2	7	100	SS-2	1.00	2	1	6	54	37	35	21	14	24	A-6a (10)	-	
		5	2																
	624.5	6	3	8	100	SS-3	0.50	-	-	-	-	-	-	-	-	26	A-6a (V)	-	
STIFF, BROWN, <b>SILTY CLAY</b> , TRACE SAND, MOIST	623.0	7	4																
		EOB	5	14	100	SS-4	1.50	0	3	5	51	41	39	22	17	23	A-6b (11)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>363+80, 6' RT.</u>	EXPLORATION ID <u>B-033-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>640.9 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.521125, -81.412138</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
8" ASPHALT 10" CONCRETE	640.9																		
VERY STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP	639.4	1																	
STIFF TO VERY STIFF, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, MOIST	637.9	2	3	9	20	67	SS-1	2.50	-	-	-	-	-	-	-	-	18	A-7-6 (V)	-
		3	3	5	15	100	SS-2	3.00	3	2	5	50	40	42	23	19	21	A-7-6 (12)	120
		4	3	5	6														
		5	3	4	11	100	SS-3	2.00	0	0	6	47	47	46	24	22	25	A-7-6 (14)	-
		6	3	4															
	633.4	7	3	5	15	100	SS-4	2.00	-	-	-	-	-	-	-	-	26	A-7-6 (V)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>367+80, 6' LT.</u>	EXPLORATION ID <u>B-034-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>650.8 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.521248, -81.410731</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
15" ASPHALT 8" GRANULAR BASE	650.8																		
	648.9	1																	
VERY STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP	647.3	2	7																
		3	6	17	67	SS-1	4.50	6	8	16	40	30	34	20	14	15	A-6a (9)	-	
VERY STIFF, RED-BROWN, <b>CLAY</b> , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP		4	4	7	21	SS-2	4.00	1	4	8	33	54	50	24	26	20	A-7-6 (16)	240	
		5	5	8															
		6	6	7	18	SS-3	4.00	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-	
		7	5	7	22	SS-4	4.00	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-	
	642.8	8	7	9															
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>371+77, 6' RT.</u>	EXPLORATION ID <u>B-035-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>652.7 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.521461, -81.409348</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10" ASPHALT 10" CONCRETE	652.7																		
	651.0	1																	
MEDIUM DENSE, BROWN, <b>SANDY SILT</b> , TRACE GRAVEL, SOME CLAY, DAMP	649.2	2	4	13	11	SS-1	-	10	16	19	33	22	NP	NP	NP	12	A-4a (4)	-	
		3	5																
VERY STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, TRACE SAND, DAMP		4	5	22	67	SS-2	3.50	1	3	7	50	39	43	20	23	19	A-7-6 (14)	190	
		5	5																
		6	6	20	100	SS-3	3.50	-	-	-	-	-	-	-	-	15	A-7-6 (V)	-	
		7	8																
	644.7	8	6	27	100	SS-4	4.50	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-	
		EOB	11																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>375+85, 7' LT.</u>	EXPLORATION ID <u>B-036-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>652.7 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.521763, -81.407958</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 8" CONCRETE	652.7																		
	650.9	1																	
VERY STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP		2	4																
		3	6	20	78	SS-1	3.50	0	0	2	43	55	50	23	27	22	A-7-6 (17)	<100	
		4	5																
	647.7	5	6	22	100	SS-2	3.50	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-	
VERY STIFF, BROWN, <b>SILTY CLAY</b> , MOIST		6	7																
		7	9	25	100	SS-3	3.50	0	0	0	53	47	37	21	16	22	A-6b (10)	-	
		8	8																
	644.7	7	7	24	100	SS-4	4.00	-	-	-	-	-	-	-	-	20	A-6b (V)	-	
		8	10																
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>380+10, 6' RT.</u>	EXPLORATION ID <u>B-037-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>652.3 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.522010, -81.406485</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 9" CONCRETE	652.3																		
	650.5	1																	
STIFF TO VERY STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, MOIST	648.8	2	2																
		3	3	11	78	SS-1	2.50	0	1	6	38	55	63	24	39	27	A-7-6 (20)	100	
VERY STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, TRACE SAND, DAMP		4	4	18	100	SS-2	2.50	-	-	-	-	-	-	-	-	22	A-6b (V)	-	
		5	4	6	7														
		6	6	17	100	SS-3	3.00	1	2	6	46	45	40	21	19	21	A-6b (12)	-	
		7	5	8															
	644.3	8	8	27	100	SS-4	3.50	-	-	-	-	-	-	-	-	20	A-6b (V)	-	
		EOB		11															

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>383+75, 7' LT.</u>	EXPLORATION ID <u>B-038-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>656.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.522378, -81.405283</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	656.6																		
	654.9	1																	
STIFF TO VERY STIFF, YELLOW-BROWN, <b>CLAY</b> , LITTLE GRAVEL, SOME SAND, SOME SILT, DAMP		2	9	15	11	SS-1	2.00	-	-	-	-	-	-	-	18	A-7-6 (V)	-		
		3	5	15	67	SS-2	4.00	13	7	18	34	28	42	22	20	17	A-7-6 (10)	200	
		4	5	14	100	SS-3	2.50	-	-	-	-	-	-	-	18	A-7-6 (V)	-		
		5	4	17	100	SS-4	2.50	0	0	2	23	75	79	30	49	36	A-7-5 (20)	-	
VERY STIFF, BROWN, <b>ELASTIC CLAY</b> , TRACE SAND, SOME SILT, MOIST	650.1	6	5																
	648.6	7	4																
		8	5																
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>387+65, 7' RT.</u>	EXPLORATION ID <u>B-039-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>649.8 (MSL)</u> EOB: <u>7.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.523054, -81.404237</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 10" CONCRETE	649.8	1																	
STIFF TO VERY STIFF, BROWN, <b>CLAY</b> , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	647.8	2	3																
		3	3	10	22	SS-1	-	-	-	-	-	-	-	-	12	A-7-6 (V)	-		
		4	3	4	13	78	SS-2	2.00	3	7	18	34	38	41	20	21	20	A-7-6 (12)	120
		5	4	5	63	78	SS-3	-	0	2	5	24	69	52	24	28	20	A-7-6 (18)	-
HARD, BLACK, <b>GRAVEL AND STONE FRAGMENTS</b> <b>WITH SAND, "AND" COAL, MOIST</b>	643.6 642.8	6 7	6 50	39	-	100	SS-4	-	-	-	-	-	-	-	-	-	26	A-1-b (V)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>391+61, 6' LT.</u>	EXPLORATION ID <u>B-040-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>640.3 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.524115, -81.404040</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	640.3	1																	
VERY STIFF, BROWN, SOME GRAY, <b>SANDY SILT</b> , LITTLE GRAVEL, LITTLE CLAY, DAMP	638.6	2	13	18	67	SS-1	2.00	-	-	-	-	-	-	-	-	-	17	A-4a (V)	-
		3	6																
		4	8	18	78	SS-2	3.00	13	7	22	39	19	29	19	10	17	A-4a (5)	<100	
	635.3	5	4																
MEDIUM DENSE TO DENSE, GRAY, RED-BROWN, <b>GRAVEL AND/OR STONE FRAGMENTS WITH SAND</b> , LITTLE SILT, TRACE CLAY, WEATHERED SILTSTONE/CLAYSTONE FRAGMENTS, DAMP	633.8	6	48	38	33	SS-3	-	50	13	13	15	9	NP	NP	NP	9	A-1-b (0)	-	
		7	22																
MEDIUM STIFF TO STIFF, RED-BROWN, GRAY, <b>SANDY SILT</b> , LITTLE GRAVEL, LITTLE CLAY, DAMP	632.3	8	5	11	100	SS-4	0.50	15	9	20	38	18	32	22	10	21	A-4a (4)	-	
		EOB	4																

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:19 - C:\P\WORKING\EAST01\1D198743720210303\_WAS-821-4.4 BORING LOGS.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>395+58, 7' RT.</u>	EXPLORATION ID <u>B-041-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>644.3 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.525205, -81.404122</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
11" ASPHALT 8" CONCRETE	644.3																		
STIFF TO VERY STIFF, DARK BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP	642.7	1																	
		2	2																
		3	3	10	100	SS-1	2.00	3	10	19	43	25	33	21	12	20	A-6a (7)	<100	
		4	3	6	17	100	SS-2	2.50	-	-	-	-	-	-	-	22	A-6a (V)	-	
VERY STIFF, RED-BROWN, <b>SILTY CLAY</b> , SOME SAND, DAMP TO MOIST	639.3	5	4	6	18	100	SS-3	3.00	0	1	22	41	36	39	20	19	21	A-6b (12)	-
		6	5	8	18	100	SS-3	3.00	0	1	22	41	36	39	20	19	21	A-6b (12)	-
		7	5	6	18	100	SS-4	2.50	-	-	-	-	-	-	-	17	A-6b (V)	-	
		8	6	7	18	100	SS-4	2.50	-	-	-	-	-	-	-	17	A-6b (V)	-	
	636.3	EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/21/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>399+57, 6' LT.</u>	EXPLORATION ID <u>B-042-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>649.2 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.526291, -81.404300</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
15" ASPHALT 8" CONCRETE	649.2																		
	647.3	1																	
STIFF, BROWN, RED-BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP TO MOIST	645.7	2	4																
		3	5	14	100	SS-1	4.50	4	6	19	41	30	39	21	18	20	A-6b (10)	140	
LOOSE TO MEDIUM DENSE, RED-BROWN, MOTTLED YELLOW-BROWN AND GRAY, <b>GRAVEL AND/OR</b> <b>STONE FRAGMENTS WITH SAND, SILT, AND CLAY,</b> DAMP		4	3	18	100	SS-2	-	-	-	-	-	-	-	-	-	24	A-2-6 (V)	-	
		5	8	8															
		6	2	8	100	SS-3	-	39	19	13	13	16	38	21	17	19	A-2-6 (1)	-	
		7	4	11	100	SS-4	-	-	-	-	-	-	-	-	-	15	A-2-6 (V)	-	
	641.2	8	4	11	100	SS-4	-	-	-	-	-	-	-	-	-	15	A-2-6 (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:19 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>403+61, 7' RT.</u>	EXPLORATION ID <u>B-043-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>650.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.527366, -81.404039</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 9" CONCRETE	650.6																		
	648.8	1																	
STIFF TO VERY STIFF, BROWN, <b>SILTY CLAY</b> , LITTLE GRAVEL, SOME SAND, DAMP		2	4	15	78	SS-1	3.50	13	9	13	37	28	37	20	17	17	A-6b (9)	<100	
		3	4	7															
	645.6	4	4	14	78	SS-2	2.50	-	-	-	-	-	-	-	-	21	A-6b (V)	-	
		5	4	6															
MEDIUM STIFF, BROWN, YELLOW-BROWN, <b>SANDY SILT</b> , SOME GRAVEL, LITTLE CLAY, DAMP		6	3	6	67	SS-3	-	22	22	18	25	13	31	21	10	18	A-4a (1)	-	
		7	2	2															
	642.6	8	2	3	8	SS-4	-	-	-	-	-	-	-	-	-	16	A-4a (V)	-	
		EOB	3	3															

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:19 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>407+68, 6' LT.</u>	EXPLORATION ID <u>B-044-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>654.2 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/26/21</u> END: <u>2/26/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.528200, -81.403106</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO <sub>4</sub> ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
17" ASPHALT 6" CONCRETE	654.2																		
	652.3	1																	
STIFF TO VERY STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP		2	3																
		3	5	13	100	SS-1	2.50	6	11	19	35	29	34	20	14	18	A-6a (7)	<100	
		4	2																
	649.2	5	3	11	61	SS-2	3.00	-	-	-	-	-	-	-	-	22	A-6a (V)	-	
MEDIUM STIFF TO STIFF, RED-BROWN, GRAY, <b>SILT AND CLAY</b> , LITTLE GRAVEL, SOME SAND, MOIST		6	6																
		7	2	7	78	SS-3	-	16	9	16	35	24	36	21	15	23	A-6a (7)	-	
		8	5	11	33	SS-4	-	-	-	-	-	-	-	-	-	26	A-6a (V)	-	
	646.2	EOB	3																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>411+66, 7' RT.</u>	EXPLORATION ID <u>B-045-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>659.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.528822, -81.401946</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
12" ASPHALT 9" CONCRETE	659.6																	
MEDIUM STIFF TO STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, TRACE SAND, MOIST	657.8	1																
		2	3	10	78	SS-1	2.50	1	2	6	43	48	46	23	23	24	A-7-6 (14)	<100
		3	4															
	654.6	4	2	4	33	SS-2	1.50	-	-	-	-	-	-	-	-	26	A-7-6 (V)	-
		5	2															
STIFF, BROWN, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, MOIST		6	3	14	100	SS-3	1.50	0	0	5	52	43	45	22	23	24	A-7-6 (14)	-
		7	5															
	651.6	8	4	10	100	SS-4	1.00	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-
		EOB	4															

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>415+64, 6' LT.</u>	EXPLORATION ID <u>B-046-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>665.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.529504, -81.400842</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 8" CONCRETE	665.6																		
	663.8	1																	
STIFF TO VERY STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP TO MOIST		2	4																
		3	6	15	78	SS-1	3.00	6	4	12	49	29	36	21	15	18	A-6a (10)	<100	
		4	3																
	660.6	5	4	10	33	SS-2	1.50	-	-	-	-	-	-	-	-	22	A-6a (V)	-	
		6	3																
STIFF TO VERY STIFF, RED-BROWN, MOTTLED GRAY AND YELLOW-BROWN, <b>SILTY CLAY</b> , "AND" SAND, TRACE GRAVEL, DAMP TO MOIST		7	3	10	100	SS-3	2.00	5	8	28	33	26	35	19	16	22	A-6b (7)	-	
		8	5																
	657.6	EOB	5	18	100	SS-4	2.00	-	-	-	-	-	-	-	-	19	A-6b (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>419+63, 7' RT.</u>	EXPLORATION ID <u>B-047-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>672.1 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.530130, -81.399678</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
13" ASPHALT 7" CONCRETE	672.1																	
	670.4	1																
STIFF TO VERY STIFF, DARK BROWN, SILT AND CLAY, LITTLE GRAVEL, SOME SAND, DAMP		2	5															
	668.6	3	5	13	33	SS-1	4.00	12	11	21	34	22	29	18	11	14	A-6a (5)	-
STIFF TO VERY STIFF, BROWN, GRAY, SILT AND CLAY, LITTLE GRAVEL, SOME SAND, DAMP		4	22 50/4"	-	70	SS-2	-	-	-	-	-	-	-	-	-	14	A-6a (V)	-
		5	3															
		6	4	13	100	SS-3	-	15	12	20	33	20	34	21	13	19	A-6a (5)	<100
		7	5	7														
	664.1	8	7	24	100	SS-4	-	-	-	-	-	-	-	-	-	17	A-6a (V)	-
		EOB	10															

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/21/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>423+64, 6' LT.</u>	EXPLORATION ID <u>B-048-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>680.8 (MSL)</u> EOB: <u>5.3 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.530814, -81.398565</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
13" ASPHALT 10" CONCRETE	680.8																	
STIFF TO VERY STIFF, BROWN, YELLOW-BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP	678.9	1																
		2	4	32	61	SS-1	3.00	7	9	16	36	32	37	23	14	20	A-6a (8)	-
HARD, RED-BROWN, <b>SILTY CLAY</b> , SOME GRAVEL, SOME SAND, DAMP	675.8	3	6	19														
	675.6	4	4	13	22	SS-2	-	-	-	-	-	-	-	-	-	16	A-6a (V)	-
		5	5	5														
		EOB	50/4"	-	25	SS-3	-	33	11	13	22	21	38	20	18	14	A-6b (4)	<100

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1D1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>427+63, 7' RT.</u>	EXPLORATION ID <u>B-049-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>690.0 (MSL)</u> EOB: <u>7.4 ft.</u>	PAGE 1 OF 1
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.531436, -81.397401</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO <sub>4</sub> ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 6" CONCRETE	690.0																		
STIFF, BROWN, GRAY, SILT AND CLAY, SOME GRAVEL, SOME SAND, DAMP	688.4	1																	
		2	4																
		3	4	15	67	SS-1	-	-	-	-	-	-	-	-	17	A-6a (V)	-		
		4	5																
	685.0	4	4	11	78	SS-2	-	32	11	13	23	21	35	21	14	17	A-6a (3)	160	
		5	4																
HARD, RED-BROWN, GRAY, YELLOW-BROWN, SILT AND CLAY, TRACE GRAVEL, SOME SAND, DAMP		5	4																
		6	4	41	100	SS-3	-	3	22	11	29	35	35	21	14	19	A-6a (7)	-	
		6	4																
	682.6	6	4	41	100	SS-3	-	3	22	11	29	35	35	21	14	19	A-6a (7)	-	
		7	32																
		7	50/5"	-	100	SS-4	-	-	-	-	-	-	-	-	6	A-6a (V)	-		
		7																	

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>431+62, 6' LT.</u>	EXPLORATION ID <u>B-050-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>706.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.532131, -81.396307</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
14" ASPHALT 8" CONCRETE	706.6																	
	704.8	1																
VERY STIFF, GRAY, RED-BROWN, BROWN, <b>SANDY SILT</b> , LITTLE GRAVEL, SOME CLAY, DAMP	703.1	2	3															
		3	6	17	67	SS-1	-	15	21	13	30	21	29	21	8	13	A-4a (3)	-
STIFF TO VERY STIFF, RED-BROWN, BROWN, <b>SILT AND CLAY</b> , LITTLE GRAVEL, LITTLE SAND, DAMP TO MOIST		4	4	5	15	SS-2	3.00	20	8	7	34	31	39	24	15	14	A-6a (8)	120
		5	7	6	6													
		6	8	11	27	SS-3	4.50	-	-	-	-	-	-	-	-	21	A-6a (V)	-
		7	7	7	27	SS-4	4.50	-	-	-	-	-	-	-	-	25	A-6a (V)	-
	698.6	8	7	12	27	SS-4	4.50	-	-	-	-	-	-	-	-	25	A-6a (V)	-
		EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>435+58, 6' RT.</u>	EXPLORATION ID <u>B-051-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>724.5 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.532891, -81.395304</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	724.5																		
	722.8	1																	
VERY STIFF TO HARD, BROWN, <b>SANDY SILT</b> , SOME GRAVEL, SOME CLAY, DAMP	721.0	2	4																
		3	17	34	67	SS-1	2.00	25	9	11	29	26	27	18	9	13	A-4a (4)	-	
HARD, YELLOW-BROWN, <b>SILT AND CLAY</b> , SOME GRAVEL, SOME SAND, DAMP	719.5	4	6																
		5	6	32	78	SS-2	-	32	13	11	26	18	36	22	14	11	A-6a (3)	100	
MEDIUM STIFF, YELLOW-BROWN, <b>SILT AND CLAY</b> , SOME GRAVEL, SOME SAND, DAMP		6	4																
		7	2	7	67	SS-3	-	-	-	-	-	-	-	-	-	7	A-6a (V)	-	
	716.5	8	3																
		EOB	2	8	67	SS-4	-	-	-	-	-	-	-	-	-	19	A-6a (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/21/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>439+59, 6' LT.</u>	EXPLORATION ID <u>B-052-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>742.2 (MSL)</u> EOB: <u>6.8 ft.</u>	PAGE 1 OF 1
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.533826, -81.394550</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
15" ASPHALT 8" CONCRETE	742.2																		
	740.3	1																	
STIFF TO VERY STIFF, BROWN, <b>SILT AND CLAY</b> , SOME GRAVEL, SOME SAND, DAMP		2	4																
		3	5	15	61	SS-1	4.00	-	-	-	-	-	-	-	-	-	16	A-6a (V)	-
		4	4	9	28	SS-2	3.00	21	12	12	32	23	34	21	13	16	A-6a (5)	140	
	737.2	5	43	19	62	SS-3	-	3	22	13	30	32	34	21	13	9	A-6a (7)	-	
HARD, RED-BROWN, <b>SILT AND CLAY</b> , "AND" SAND, TRACE GRAVEL, DAMP		6	19	25	62	SS-3	-	3	22	13	30	32	34	21	13	9	A-6a (7)	-	
	735.4	EOB	50/4"	-	100	SS-4	-	-	-	-	-	-	-	-	-	-	12	A-6a (V)	-

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>443+53, 6' RT.</u>	EXPLORATION ID <u>B-053-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>760.2 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.534751, -81.393826</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 8" CONCRETE	760.2																		
	758.4	1																	
MEDIUM STIFF TO STIFF, YELLOW-BROWN, BROWN, <b>SILT AND CLAY</b> , "AND" SAND, TRACE GRAVEL, DAMP		2	5																
		3	7	20	56	SS-1	-	-	-	-	-	-	-	-	13	A-6a (V)	-		
		4	3																
	755.2	5	2	6	61	SS-2	-	8	12	26	34	20	29	18	11	13	A-6a (4)	240	
		6	3																
SOFT TO MEDIUM STIFF, BROWN, <b>SILT AND CLAY</b> , LITTLE SAND, MOIST		7	2	4	56	SS-3	2.00	0	4	12	43	41	33	19	14	24	A-6a (10)	-	
		8	1																
	752.2	EOB	1	3	100	SS-4	0.50	0	2	9	47	42	34	20	14	25	A-6a (10)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>447+49, 6' LT.</u>	EXPLORATION ID <u>B-054-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>777.2 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE <u>1 OF 1</u>
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.535835, -81.393807</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 8" CONCRETE	777.2																		
STIFF TO VERY STIFF, RED-BROWN, BROWN, SILT AND CLAY, TRACE GRAVEL, SOME SAND, MOIST	775.4	1																	
		2	4	15	100	SS-1	2.00	1	2	24	39	34	32	17	15	18	A-6a (10)	<100	
		3	4	5	14	100	SS-2	3.50	-	-	-	-	-	-	-	15	A-6a (V)	-	
		4	4	5	17	100	SS-3	4.00	0	1	28	29	42	30	16	14	17	A-6a (9)	-
		5	4	5	17	100	SS-3	4.00	0	1	28	29	42	30	16	14	17	A-6a (9)	-
		6	4	5	17	100	SS-3	4.00	0	1	28	29	42	30	16	14	17	A-6a (9)	-
		7	4	6	18	78	SS-4	4.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-
	769.2	8	6	18	78	SS-4	4.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>451+49, 7' RT.</u>	EXPLORATION ID <u>B-055-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>772.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/21</u> END: <u>2/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.536932, -81.393831</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 7" CONCRETE	772.6																		
	770.9	1																	
STIFF, BROWN, SILT AND CLAY, "AND" SAND, TRACE GRAVEL, MOIST		2	4																
		3	4	10	67	SS-1	3.00	-	-	-	-	-	-	-	13	A-6a (V)	-		
		4	3																
	767.6	4	4	11	61	SS-2	3.00	1	2	37	30	30	27	15	12	17	A-6a (6)	-	
		5	3																
STIFF TO VERY STIFF, YELLOW-BROWN, SOME MOTTLED BLACK, SILT AND CLAY, TRACE GRAVEL, LITTLE SAND, DAMP		6	3	11	100	SS-3	1.50	2	4	15	45	34	37	22	15	22	A-6a (10)	100	
		7	5																
	764.6	7	3	18	100	SS-4	2.00	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
		8	5																
		8	8																
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>455+39, 8' LT.</u>	EXPLORATION ID <u>B-056-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>778.5 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.537988, -81.394040</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 6" CONCRETE	778.5																		
MEDIUM STIFF TO STIFF, RED-BROWN, <b>CLAY</b> , TRACE GRAVEL, SOME SAND, SOME SILT, MOIST	776.8	1																	
		2	4																
		3	6	15	67	SS-1	3.50	-	-	-	-	-	-	-	14	A-7-6 (V)	-		
		4	2																
	773.5	5	3	8	78	SS-2	2.00	5	11	20	26	38	46	25	21	26	A-7-6 (11)	<100	
		6	2																
STIFF TO VERY STIFF, RED-BROWN, <b>ELASTIC CLAY</b> , TRACE GRAVEL, LITTLE SAND, SOME SILT, MOIST		7	3	14	100	SS-3	1.50	1	8	12	22	57	53	31	22	35	A-7-5 (15)	-	
		8	6																
	770.5	EOB	7	25	61	SS-4	1.50	-	-	-	-	-	-	-	26	A-7-5 (V)	-		
			11																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/21/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>459+48, 6' RT.</u>	EXPLORATION ID <u>B-057-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>772.5 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.539083, -81.394367</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 10" CONCRETE	772.5	1																	
VERY STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP	770.5	2	5																
		3	6	20	78	SS-1	2.00	-	-	-	-	-	-	-	16	A-6b (V)	-		
VERY STIFF TO HARD, RED-BROWN, YELLOW, BROWN, <b>CLAY</b> , "AND" SILT, LITTLE SAND, MOIST	767.5	4	5																
		5	7	25	78	SS-2	4.00	3	9	12	39	37	37	19	18	18	A-6b (11)	590	
	764.5	6	6																
		7	7	24	100	SS-3	4.50	0	4	7	35	54	42	18	24	21	A-7-6 (14)	-	
		8	6																
		EOB	46	85	67	SS-4	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>463+50, 7' LT.</u>	EXPLORATION ID <u>B-058-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>766.6 (MSL)</u> EOB: <u>6.3 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.540140, -81.394785</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
15" ASPHALT 8" CONCRETE	766.6																		
	764.7	1																	
HARD, BROWN, RED-BROWN, <b>SANDY SILT</b> , TRACE GRAVEL, SOME CLAY, DAMP	763.1	2	14 50/5"	-	100	SS-1	-	3	16	23	32	26	28	20	8	10	A-4a (5)	-	
VERY DENSE, BROWN, RED-BROWN, <b>SANDY SILT</b> , SOME GRAVEL, LITTLE CLAY, DAMP		3	50/5"	-	100	SS-2	-	29	12	22	25	12	NP	NP	NP	7	A-4a (0)	260	
		4																	
		5	9																
	760.3	6	38 50/4"	-	100	SS-3	-	-	-	-	-	-	-	-	-	7	A-4a (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>467+48, 6' RT.</u>	EXPLORATION ID <u>B-059-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>768.2 (MSL)</u> EOB: <u>7.7 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.541202, -81.395113</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	768.2																		
MEDIUM STIFF TO STIFF, BROWN, SOME GRAY, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, TRACE SAND, DAMP	766.4	1	3																
		2	4	11	100	SS-1	2.00	1	1	3	48	47	43	23	20	22	A-7-6 (13)	100	
		3	4																
	763.2	4	3	6	78	SS-2	1.00	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
		5	2																
HARD, YELLOW-BROWN, GRAY, <b>SANDY SILT</b> , TRACE GRAVEL, LITTLE CLAY, DRY		6	50/4"	-	100	SS-3	-	-	-	-	-	-	-	-	-	11	A-4a (V)	-	
		7	18 24 50/2"	-	86	SS-4	-	8	22	13	38	19	30	20	10	4	A-4a (4)	-	
	760.5	EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>471+45, 5' LT.</u>	EXPLORATION ID <u>B-060-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>779.7 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.542233, -81.395571</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
14" ASPHALT 8" CONCRETE	779.7	1																	
VERY STIFF, YELLOW-BROWN, RED-BROWN, <b>CLAY</b> , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	777.9	2	5																
		3	7	21	67	SS-1	3.00	5	10	8	26	51	46	21	25	20	A-7-6 (15)	-	
VERY STIFF TO HARD, RED-BROWN, <b>CLAY</b> , LITTLE GRAVEL, LITTLE SAND, SOME SILT, DAMP TO MOIST	776.2	4	4																
		5	5	15	100	SS-2	3.00	14	8	10	28	40	48	25	23	24	A-7-6 (13)	<100	
		6	3																
		7	4	24	100	SS-3	2.00	-	-	-	-	-	-	-	-	29	A-7-6 (V)	-	
		8	25	43	78	SS-4	-	-	-	-	-	-	-	-	-	22	A-7-6 (V)	-	
	771.7	EOB	6																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>475+45, 6' RT.</u>	EXPLORATION ID <u>B-061-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>787.1 (MSL)</u> EOB: <u>7.8 ft.</u>	PAGE 1 OF 1
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.543247, -81.396116</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 7" CONCRETE	787.1																		
SOFT TO MEDIUM STIFF, BROWN, SILT AND CLAY, TRACE SAND, MOIST	785.4	1																	
		2	3	8	61	SS-1	3.00	-	-	-	-	-	-	-	21	A-6a (V)	-		
		3	1	3	100	SS-2	0.50	0	1	4	57	38	36	22	14	28	A-6a (10)	<100	
		4	1	3	100	SS-2	0.50	0	1	4	57	38	36	22	14	28	A-6a (10)	<100	
		5	1	3	100	SS-2	0.50	0	1	4	57	38	36	22	14	28	A-6a (10)	<100	
HARD, RED-BROWN, SILT AND CLAY, TRACE SAND, DAMP	780.9	6	22	39	100	SS-3	0.50	-	-	-	-	-	-	-	38	A-6a (V)	-		
	779.4	7	25	-	80	SS-4	-	0	1	4	56	39	32	21	11	11	A-6a (8)	-	
		EOB	50/3"																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>479+44, 6' LT.</u>	EXPLORATION ID <u>B-062-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>810.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.544226, -81.396750</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 7" CONCRETE	810.6																		
	808.9	1																	
STIFF, GRAY, BROWN, <b>SILTY CLAY</b> , LITTLE GRAVEL, SOME SAND, DAMP		2	11																
	807.1	3	8	15	67	SS-1	-	20	7	16	20	37	37	21	16	18	A-6b (7)	-	
		4	2	7	33	SS-2	-	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
SOFT TO MEDIUM STIFF, BROWN, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, MOIST		5	2	7	67	SS-3	1.00	0	2	5	35	58	51	22	29	28	A-7-6 (18)	<100	
		6	2	7	67	SS-3	1.00	0	2	5	35	58	51	22	29	28	A-7-6 (18)	<100	
		7	2	4	67	SS-4	1.00	-	-	-	-	-	-	-	-	28	A-7-6 (V)	-	
	802.6	8	1	4	67	SS-4	1.00	-	-	-	-	-	-	-	-	28	A-7-6 (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303 WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>483+54, 8' RT.</u>	EXPLORATION ID <u>B-063-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>832.7 (MSL)</u> EOB: <u>6.2 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.545262, -81.397315</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9" ASPHALT 8" CONCRETE	832.7																		
MEDIUM STIFF TO STIFF, RED-BROWN, SILT AND CLAY, TRACE GRAVEL, LITTLE SAND, MOIST	831.3	1																	
		2	2																
		3	3	8	22	SS-1	3.50	-	-	-	-	-	-	-	19	A-6a (V)	-		
		4	3	10	67	SS-2	1.00	3	4	6	51	36	35	20	15	21	A-6a (10)	120	
		5	2																
SILTSTONE, LIGHT GRAY, SEVERELY WEATHERED, WEAK TO SLIGHTLY STRONG.	826.7	6	3																
	826.5	6	50/5"	-	100	SS-3	1.00	3	7	7	44	39	35	22	13	30	A-6a (9)	-	
			60/2"	-	50	SS-4	-	-	-	-	-	-	-	-	-	3	Rock (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>487+52, 6' LT.</u>	EXPLORATION ID <u>B-064-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>847.1 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.546296, -81.397758</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI					
8" ASPHALT 8" CONCRETE	847.1																			
STIFF TO VERY STIFF, BROWN, <b>SILTY CLAY</b> , LITTLE GRAVEL, SOME SAND, DAMP	845.8	1																		
		2	3	4	18	11	SS-1	-	-	-	-	-	-	-	-	16	A-6b (V)	-		
		3	4	9																
STIFF TO VERY STIFF, RED-BROWN, BROWN, <b>CLAY</b> , TRACE GRAVEL, SOME SAND, SOME SILT, DAMP	842.6	4	3	5	11	33	SS-2	-	19	13	12	24	32	36	18	18	15	A-6b (7)	-	
		5	3	4	11	67	SS-3	2.50	10	13	8	30	39	44	20	24	20	A-7-6 (13)	100	
		6	3	4																
		7	3	4	10	78	SS-4	1.50	-	-	-	-	-	-	-	-	-	33	A-7-6 (V)	-
	839.6	EOB																		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437202\10303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>491+56, 7' RT.</u>	EXPLORATION ID <u>B-065-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>866.5 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.547404, -81.397720</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9" ASPHALT 7" CONCRETE	866.5																		
MEDIUM STIFF TO STIFF, BROWN, RED-BROWN, <b>CLAY</b> , "AND" SILT, LITTLE GRAVEL, LITTLE SAND, DAMP TO MOIST	865.2	1																	
		2	3																
		3	4	11	33	SS-1	2.00	-	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-
		4	3	7	78	SS-2	1.50	10	6	9	35	40	47	24	23	25	A-7-6 (15)	120	
		5	3																
	860.5	6	5	15	78	SS-3	1.50	-	-	-	-	-	-	-	-	26	A-7-6 (V)	-	
VERY STIFF, YELLOW-BROWN, <b>CLAY</b> , TRACE SAND, SOME SILT, MOIST	859.0	7	3																
		EOB	5	17	67	SS-4	3.00	0	1	1	23	75	67	29	38	30	A-7-6 (20)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>495+87, 7' LT.</u>	EXPLORATION ID <u>B-066-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>865.0 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.548544, -81.397337</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
11" ASPHALT 4" CONCRETE	865.0																		
HARD, GRAY, SILT AND CLAY, TRACE GRAVEL, LITTLE SAND, DAMP	863.7	1																	
		2	5																
		3	9 18	38	67	SS-1	3.00	-	-	-	-	-	-	-	18	A-6a (V)	-		
		4	14 12 15	38	100	SS-2	4.50	3	2	6	40	49	32	20	12	20	A-6a (9)	<100	
		5	14 50/5"	-	100	SS-3	>4.5	3	8	7	29	53	34	22	12	17	A-6a (9)	-	
		6	25																
		857.5	7	25 14	55	78	SS-4	-	-	-	-	-	-	-	-	12	A-6a (V)	-	
		EOB																	

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>499+87, 6' RT.</u>	EXPLORATION ID <u>B-067-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>837.5 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.549542, -81.396737</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
4" ASPHALT 12" CONCRETE	837.5																		
MEDIUM STIFF TO STIFF, BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, TRACE SAND, DAMP	836.2	1																	
		2	3	11	39	SS-1	2.50	-	-	-	-	-	-	-	-	-	27	A-7-6 (V)	-
		3	2																
		4	4	13	78	SS-2	2.00	5	2	7	40	46	47	24	23	25	A-7-6 (15)	100	
		5	3	10	100	SS-3	3.00	1	5	5	24	65	52	27	25	27	A-7-6 (16)	-	
		6	3																
	830.0	7	2	7	67	SS-4	2.50	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>503+83, 8' LT.</u>	EXPLORATION ID <u>B-068-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>816.1 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE 1 OF 1
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.550603, -81.396458</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO <sub>4</sub> ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
10" ASPHALT 8" CONCRETE	816.1																		
STIFF TO VERY STIFF, RED-BROWN, YELLOW-BROWN, MOTTLED GRAY, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, LITTLE SAND, DAMP	814.6	1	4																
	813.1	2	5	15	78	SS-1	3.50	4	4	9	36	47	46	25	21	21	A-7-6 (14)	<100	
		3	4	6															
STIFF TO VERY STIFF, RED-BROWN, BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, MOIST		4	4	5	13	100	SS-2	3.00	0	1	2	35	62	41	18	23	21	A-7-6 (13)	-
		5	3	5	11	67	SS-3	2.50	-	-	-	-	-	-	-	-	29	A-7-6 (V)	-
		6	5																
	808.6	7	8	12	28	78	SS-4	3.50	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>507+80, 6' RT.</u>	EXPLORATION ID <u>B-069-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>810.7 (MSL)</u> EOB: <u>5.3 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.551688, -81.396451</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	810.7																		
HARD, RED-BROWN, SILT AND CLAY, TRACE GRAVEL, SOME SAND, DAMP	809.0	1																	
CLAYSTONE, RED-BROWN, SEVERELY WEATHERED, VERY WEAK.	807.2	2	26																
		3	45		100	SS-1	-	10	14	11	37	28	31	18	13	7	A-6a (7)	<100	
		4	50/4"		100	SS-2	-	4	18	13	27	38	33	19	14	6	Rock (V)	-	
	805.4	5	50/4"		100	SS-3	-	-	-	-	-	-	-	-	-	6	Rock (V)	-	
		EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\198743720210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>511+95, 7' LT.</u>	EXPLORATION ID <u>B-070-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>795.7 (MSL)</u> EOB: <u>7.8 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.552798, -81.396761</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 8" CONCRETE	795.7																		
	793.9	1																	
STIFF TO VERY STIFF, RED-BROWN, <b>CLAY</b> , "AND" SILT, TRACE SAND, DAMP		2	2																
		3	5	15	61	SS-1	3.00	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-	
		4	5	7	10	SS-2	4.50	0	2	4	42	52	47	24	23	19	A-7-6 (15)	<100	
	789.2	5	8	10	14	SS-3	>4.5	-	-	-	-	-	-	-	-	15	A-7-6 (V)	-	
HARD, GRAY, <b>SILT AND CLAY</b> , LITTLE SAND, DAMP	787.9	6	12	36	50/4"	SS-4	-	0	5	7	44	44	35	21	14	10	A-6a (10)	-	
		7																	

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>515+77, 6' RT.</u>	EXPLORATION ID <u>B-071-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>790.9 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.553759, -81.397298</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	790.9	1																	
MEDIUM STIFF TO STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE SAND, MOIST	789.2	2	5																
		3	4	10	78	SS-1	2.50	0	2	6	62	30	33	20	13	22	A-6a (9)	150	
		4	1	6	78	SS-2	0.50	-	-	-	-	-	-	-	-	25	A-6a (V)	-	
	785.9	5	3	2															
STIFF, YELLOW-BROWN, <b>SILTY CLAY</b> , LITTLE SAND, DAMP		6	5	15	100	SS-3	3.50	0	6	8	38	48	38	19	19	18	A-6b (12)	-	
		7	3	6															
	782.9	8	3	10	100	SS-4	3.00	-	-	-	-	-	-	-	-	21	A-6b (V)	-	
		EOB	4																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>519+46, 6' LT.</u>	EXPLORATION ID <u>B-072-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>2.25" HSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>792.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/25/21</u> END: <u>2/25/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.554721, -81.397676</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
12" ASPHALT 8" CONCRETE	792.6																		
	790.9	1																	
STIFF TO VERY STIFF, BROWN, YELLOW-BROWN, SILT AND CLAY, TRACE GRAVEL, TRACE SAND, DAMP		2	7																
		3	6	17	67	SS-1	>4.5	-	-	-	-	-	-	-	20	A-6a (V)	-		
		4	4																
	787.6	5	5	15	100	SS-2	4.50	1	2	8	57	32	36	22	14	19	A-6a (10)	<100	
STIFF TO VERY STIFF, RED-BROWN, CLAY, TRACE SAND, SOME SILT, DAMP		6	3																
		7	5	17	100	SS-3	4.00	0	1	6	31	62	50	24	26	22	A-7-6 (16)	-	
		8	6																
	784.6	7	5	21	100	SS-4	-	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
		8	6																
		EOB	9																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS



STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>523+81, 6' RT.</u>	EXPLORATION ID <u>B-073-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>770.8 (MSL)</u> EOB: <u>7.0 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.555885, -81.397361</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
13" ASPHALT 8" CONCRETE	770.8																		
STIFF, BROWN, SILT AND CLAY, LITTLE SAND, DAMP	769.0	1																	
	767.3	2	3	10	100	SS-1	2.50	0	3	12	54	31	31	18	13	20	A-6a (9)	<100	
HARD, BROWN, RED-BROWN, CLAY, "AND" SILT, TRACE GRAVEL, SOME SAND, DAMP		3	3	14	100	SS-2	3.50	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-	
		4	3	14	100	SS-2	3.50	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-	
		5	7	14	100	SS-2	3.50	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-	
		6	20	43	78	SS-3	4.00	1	21	8	37	33	41	27	14	15	A-7-6 (9)	-	
	763.8	7	11	43	78	SS-3	4.00	1	21	8	37	33	41	27	14	15	A-7-6 (9)	-	
		EOB	50	-	100	SS-4	-	-	-	-	-	-	-	-	-	16	A-7-6 (V)	-	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>528+97, 6' LT.</u>	EXPLORATION ID B-074-0-21
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>740.8 (MSL)</u> EOB: <u>5.8 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.556999, -81.396293</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
12" ASPHALT 8" CONCRETE	740.8																	
CLAYSTONE, RED-BROWN, SEVERELY WEATHERED, VERY WEAK.	739.1	TR																
		1																
		2	50/4"	-	100	SS-1	-	-	-	-	-	-	-	-	3	Rock (V)	-	
		3																
	4		50/4"	-	100	SS-2	-	38	20	14	20	8	29	22	7	4	Rock (V)	<100
	5																	
	735.0	EOB																
			34												8	Rock (V)	-	
			50/4"	-	100	SS-3	-	-	-	-	-	-	-	-				

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4\_BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>532+93, 7' RT.</u>	EXPLORATION ID <u>B-075-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>717.1 (MSL)</u> EOB: <u>7.5 ft.</u>	PAGE 1 OF 1
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.557547, -81.395076</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9" ASPHALT 8" CONCRETE	717.1																		
VERY STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, LITTLE SAND, DAMP	715.7	1																	
	714.1	2	4	6	17	78	SS-1	3.50	5	8	8	37	42	36	20	16	17	A-6b (10)	-
STIFF TO VERY STIFF, RED-BROWN, YELLOW-BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP		3	2	3	10	67	SS-2	2.50	3	8	12	44	33	38	22	16	19	A-6b (10)	330
		4	2	4	11	100	SS-3	2.50	-	-	-	-	-	-	-	-	28	A-6b (V)	-
		5	2	4	11	100	SS-3	2.50	-	-	-	-	-	-	-	-	28	A-6b (V)	-
		6	3	4	11	100	SS-4	2.50	-	-	-	-	-	-	-	-	20	A-6b (V)	-
		7	4	4	11	100	SS-4	2.50	-	-	-	-	-	-	-	-	20	A-6b (V)	-
	709.6	EOB																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 12/2/21 09:20 - C:\P\WORKING\EAST01\198743720210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>536+79, 7' LT.</u>	EXPLORATION ID <u>B-076-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>697.4 (MSL)</u> EOB: <u>7.3 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.558429, -81.394458</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
12" ASPHALT 8" CONCRETE	697.4																	
STIFF, BROWN, <b>SILTY CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP	695.7	1																
		2	3															
	693.9	3	4	11	33	SS-1	1.50	3	14	10	28	45	39	22	17	18	A-6b (10)	-
VERY STIFF, YELLOW-BROWN, BROWN, <b>CLAY</b> , "AND" SILT, TRACE GRAVEL, LITTLE SAND, DAMP	692.4	4	5															
		5	7	25	67	SS-2	3.00	3	5	10	35	47	44	25	19	17	A-7-6 (12)	600
<b>SHALE</b> , BLACK, DARK GRAY, SEVERELY WEATHERED, VERY WEAK, INTERBEDDED COAL.	690.9	6	27															
		6	50/6"	-	100	SS-3	-	26	38	14	11	11	NP	NP	NP	4	Rock (V)	-
<b>SANDSTONE</b> , GRAY, SEVERELY WEATHERED, WEAK.	690.1	7	32															
		7	50/4"	-	100	SS-4	-	-	-	-	-	-	-	-	-	8	Rock (V)	-

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/22/21 09:20 - C:\P\WORKING\EAST01\1987437\2021\0303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>540+78, 6' RT.</u>	EXPLORATION ID <u>B-077-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>685.3 (MSL)</u> EOB: <u>7.5 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.559524, -81.394468</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
9" ASPHALT 8" CONCRETE	685.3																		
STIFF TO VERY STIFF, BROWN, YELLOW-BROWN, <b>CLAY</b> , TRACE GRAVEL, LITTLE SAND, SOME SILT, DAMP	683.9	1																	
		2	4	18	67	SS-1	2.50	-	-	-	-	-	-	-	19	A-7-6 (V)	-		
MEDIUM STIFF TO STIFF, BROWN, YELLOW-BROWN, <b>CLAY</b> , TRACE GRAVEL, TRACE SAND, SOME SILT, DAMP	680.8	3	2																
		4	3	10	78	SS-2	2.50	3	7	10	28	52	59	28	31	28	A-7-6 (20)	1100	
	677.8	5	3																
		6	4	11	78	SS-3	3.00	1	2	1	25	71	58	28	30	28	A-7-6 (20)	-	
		7	1	4	22	SS-4	1.50	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
		EOB	2																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT. - 12/2/21 09:20 - C:\P\WORKING\EAST01\1987437\20210303\_WAS-821-4.4 BORING LOGS.GPJ

PROJECT: <u>WAS-821-04.40</u>	DRILLING FIRM / OPERATOR: <u>CENTRAL STAR / TS</u>	DRILL RIG: <u>CME 55 TRUCK</u>	STATION / OFFSET: <u>544+33, 9' LT.</u>	EXPLORATION ID <u>B-078-0-21</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>HDR / PG</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SR 821</u>	PAGE 1 OF 1
PID: <u>113939</u> SFN: _____	DRILLING METHOD: <u>5.5" SSA</u>	CALIBRATION DATE: <u>11/20/19</u>	ELEVATION: <u>670.6 (MSL)</u> EOB: <u>7.0 ft.</u>	
START: <u>2/24/21</u> END: <u>2/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>84</u>	LAT / LONG: <u>39.560390, -81.394948</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
15" ASPHALT 8" CONCRETE	670.6																	
VERY STIFF, BROWN, <b>SILT AND CLAY</b> , TRACE GRAVEL, SOME SAND, DAMP	668.7	1																
		2	3															
		3	5	17	67	SS-1	1.50	9	20	14	28	29	32	20	12	13	A-6a (5)	-
HARD, YELLOW-BROWN, BROWN, <b>SILT AND CLAY</b> , LITTLE GRAVEL, SOME SAND, DAMP	667.1	4	14															
		5	22	95	78	SS-2	-	20	10	14	40	16	32	21	11	7	A-6a (5)	<100
		6	46															
		7	50/6"	-	100	SS-3	-	-	-	-	-	-	-	-	-	5	A-6a (V)	-
	663.6	EOB	50/6"	-	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-6a (V)	-

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS