

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-101 SHEET 1 of 2 DATE STARTED: 8/28/09 DATE COMPLETED: 8/29/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE PLAN VIEW OFFSET: 0.00 VTSPG NAD83: N 852546.10 ft E 1716520.70 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 699.5 ft GROUNDWATER DEPTH: NONE TAKEN PROJECT PIN NUMBER: 09G114		BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC					
BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: CEE									
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Visual Classification, SiGrSa, blk, Moist, Rec. = 0.8 ft	9	24.9					
		A-2-4, SiGrSa, blk, Wet, Rec. = 0.9 ft	10	24.0	22.4	56.0	21.6		
		Field Note: Wood, blk, Wet, Rec. = 0.3 ft	6						
		Visual Classification, SoSi, gry, Wet, Rec. = 1.4 ft	20	18.5					
		A-2-4, Sa, gry, Wet, Rec. = 1.3 ft	20	15.0	9.7	76.9	13.4		
		Field Note: Cobbles							
		A-4, Si, gry, Wet, Rec. = 1.0 ft	7	27.8	2.7	1.9	95.4	27	5
		Field Note: Lost water return.							
		Visual Classification, SiCl, gry, Wet, Rec. = 1.7 ft	4	37.6					
		Visual Classification, SiCl, gry, Wet, Rec. = 2.0 ft	WH	37.8					
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	WH	42.7	0.0	1.2	98.8	38	15
		Field Note: Water return came back at 44.0 ft.							
		Visual Classification, SiCl, gry, Wet, Rec. = 2.0 ft	2	38.0					
		Visual Classification, SiCl, gry, Wet, Rec. = 2.0 ft	4	32.6					
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	1	37.3	0.0	0.6	99.4	35	12

LOG OF BORING COVENTRY BR WACR BR561.GPJ, VT_AUG10BT 7/19/11

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PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE PLAN VIEW OFFSET: 0.00 VTSPG NAD83: N 852546.10 ft E 1716520.70 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 699.5 ft GROUNDWATER DEPTH: NONE TAKEN PROJECT PIN NUMBER: 09G114		BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC					
BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: CEE									
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Visual Classification, SiCl, gry, Wet, Rec. = 2.0 ft	WH	39.9					
		Visual Classification, CiSi, gry, Wet, Rec. = 2.0 ft	10	27.7					
		A-4, CiSi, gry, Wet, Rec. = 1.5 ft	10	28.2	0.0	1.4	98.6	31	10
		Visual Classification, CiSi, gry, Wet, Rec. = 1.7 ft	23	22.7					
		Visual Classification, CiSi, gry, Wet, Rec. = 2.0 ft	16	24.6					
		A-4, Si, gry, Wet, Rec. = 1.4 ft	12	24.9	0.0	6.3	93.7	25	6
		Visual Classification, CiSi, gry, Wet, Rec. = 1.5 ft	15	22.6					
		A-4, Si, gry, Wet, Rec. = 2.0 ft	11	25.9	0.0	3.2	96.8		
		BXMDC, Cobbles, 101.5 ft - 101.9 ft	R	9.7	31.5	43.5	25.0		
		A-2-4, SiGrSa, gry, Wet, Rec. = 0.9 ft	1	98	76	50	11	8	9
		103.5 ft - 108.5 ft, Gray, Meta-Limestone, Hard, Unweathered, BXMDC, with phyllite zone from 106.3 ft - 107.0 ft, Competent					10	11	
		108.5 ft - 113.5 ft, Gray, Phyllite, Moderately hard to hard, Unweathered, BXMDC, with thin quartz veins grading to meta-limestone, Competent	2	100	86	55	10	13	15
		Hole stopped @ 113.5 ft					10	10	

LOG OF BORING COVENTRY BR WACR BR562.GPJ, VT_AUG10BT 7/19/11

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-102 SHEET 1 of 2 DATE STARTED: 8/29/09 DATE COMPLETED: 8/30/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE PLAN VIEW OFFSET: 0.00 VTSPG NAD83: N 852580.90 ft E 1716517.70 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 699.5 ft GROUNDWATER DEPTH: NONE TAKEN PROJECT PIN NUMBER: 09G114							
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: CEE							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Visual Classification, SiSaGr, brn, Moist, Rec. = 0.9 ft	13	8.2					
		Visual Classification, Sa, brn, Wet, Rec. = 0.2 ft	19						
10		No Recovery, 12.0 ft - 14.0 ft	8						
		A-4, Cisi, gry, Wet, Rec. = 1.5 ft	4	30.6	0.0	9.3	90.7	31	7
20		Visual Classification, Si, gry, Wet, Rec. = 1.4 ft	19	21.0					
		Field Note: Lost water return.							
		Visual Classification, Cisi, gry, Wet, Rec. = 0.3 ft	9	30.6					
30		Visual Classification, Cisi, gry, Wet, Rec. = 2.0 ft	6	31.0					
		A-4, Cisi, gry, Wet, Rec. = 1.2 ft	2	34.8	0.0	3.2	96.8	31	7
40		Field Note: Water return came back.							
		Visual Classification, Sici, gry, Wet, Rec. = 2.0 ft	WH	38.3					
		A-6, Sici, gry, Wet, Rec. = 2.0 ft	1	39.7	0.0	0.6	99.4	39	17
50		Visual Classification, Sici, gry, Wet, Rec. = 1.6 ft	WH	38.7					
		Visual Classification, Sici, gry, Wet, Rec. = 1.8 ft	WH	41.3					
60		A-6, Sici, gry, Wet, Rec. = 2.0 ft	3	37.1	0.0	2.2	97.8	37	15

LOG OF BORING COVENTRY BR WACR BR562.GPJ, VT AOT.GDT 7/19/11

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-102 SHEET 2 of 2 DATE STARTED: 8/29/09 DATE COMPLETED: 8/30/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE PLAN VIEW OFFSET: 0.00 VTSPG NAD83: N 852580.90 ft E 1716517.70 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 699.5 ft GROUNDWATER DEPTH: NONE TAKEN PROJECT PIN NUMBER: 09G114							
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: CEE							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Visual Classification, Sici, gry, Wet, Rec. = 0.9 ft	4	33.8					
70		Visual Classification, Sici, gry, Wet, Rec. = 1.8 ft	18	32.3					
		Visual Classification, Cisi, gry, Wet, Rec. = 1.5 ft	13	24.2					
80		A-4, Cisi, gry, Wet, Rec. = 1.7 ft	17	26.0	0.0	1.1	98.9	29	9
		Visual Classification, Sici, gry, Wet, Rec. = 1.8 ft	27	24.0					
90		A-6, Sici, gry, Wet, Rec. = 2.0 ft	11	28.6	0.0	4.8	95.2	32	13
		Visual Classification, Si, gry, Wet, Rec. = 1.9 ft	23	24.7					
100		A-4, Si, gry, Wet, Rec. = 0.9 ft	10	20.1	0.0	16.0	84.0		
		Boulder, 105.5 ft - 108.0 ft							
110		Visual Classification, SaSi with Broken rock, gry, Wet, Rec. = 0.4 ft	R						
		Top of bedrock @ 115.6 ft							
		115.6 ft - 117.6 ft, Gray, Phyllic Meta-limestone, Moderately hard to hard, Unweathered, BXMDC, with vertical thin quartz veins grading to meta-limestone, Competent	1	100	80	20	6	8	
		117.6 ft - 121.6 ft, Gray, Meta-Limestone, Hard, Unweathered, BXMDC, with thin vertical quartz veins, Competent	2	108	84	30	5	4	
		121.6 ft - 125.6 ft, Gray, Meta-Limestone, Hard, Unweathered, BXMDC, with thin vertical quartz veins, Competent	3	85	85	30	4	4	
120		Hole stopped @ 125.6 ft					5	5	

LOG OF BORING COVENTRY BR WACR BR562.GPJ, VT AOT.GDT 7/19/11



STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 MATERIALS & RESEARCH SECTION
 SUBSURFACE INFORMATION

BORING NUMBER: B-103
 SHEET 1 of 1
 DATE STARTED: 9/11/09
 DATE COMPLETED: 9/11/09

PROJECT NAME: COVENTRY
 SITE NAME: RAILROAD
 STATION: SEE PLAN VIEW
 OFFSET: 0.00
 VTSPG NAD83: N 852624.70 ft E 1716514.70 ft

PROJECT NUMBER: WACR BR.561 & 562
 SITE NUMBER:
 GROUND ELEVATION: 699.5 ft
 GROUNDWATER DEPTH: NONE TAKEN
 PROJECT PIN NUMBER: 09G114

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: MAHMUTOVIC

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
 BORING TYPE: WASH BORE
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		Visual Classification, SiGrSa, blk, Wet, Rec. = 0.6 ft	8	18.4			
10		Visual Classification, Si Sa with Wood, blk, Wet, Rec. = 0.5 ft	7				
		Wood, 8.0 ft - 12.0 ft					
		Hole stopped @ 12.0 ft					
15		DRILLER'S NOTES: 1. Started drilling Wood at 8.0 ft. 2. Drillers moved hole 5.0 feet north of B-103 and named that hole B-104.					

LOG OF BORING COVENTRY RR WACR BR562.GPJ VT AQT.GDT 7/19/11



STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 MATERIALS & RESEARCH SECTION
 SUBSURFACE INFORMATION



BORING NUMBER: B-104
 SHEET 1 of 1
 DATE STARTED: 9/11/09
 DATE COMPLETED: 9/11/09

PROJECT NAME: COVENTRY
 SITE NAME: RAILROAD
 STATION: SEE PLAN VIEW
 OFFSET: 0.00
 VTSPG NAD83: N 852629.80 ft E 1716514.30 ft

PROJECT NUMBER: WACR BR.561 & 562
 SITE NUMBER:
 GROUND ELEVATION: 699.5 ft
 GROUNDWATER DEPTH: NONE TAKEN
 PROJECT PIN NUMBER: 09G114

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: MAHMUTOVIC

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
 BORING TYPE: WASH BORE
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		Field Note:, No Sample	15				
		Field Class:, Wood					
		Hole stopped @ 5.0 ft					
		DRILLER'S NOTES: 1. Drillers moved hole 5.0 feet south of B-103 and named that hole B-105.					

LOG OF BORING COVENTRY RR WACR BR562.GPJ VT AQT.GDT 7/19/11

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-105 SHEET 1 of 2 DATE STARTED: 9/11/09 DATE COMPLETED: 9/12/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE PLAN VIEW OFFSET: 0.00 VTSPG NAD83: N 852619.30 ft E 1716515.20 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 699.5 ft GROUNDWATER DEPTH: NONE TAKEN PROJECT PIN NUMBER: 09G114							
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: CEE							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		No Sample, 2.0 ft - 4.0 ft	11						
		Visual Classification, Wood with Sa Gr, blk, Wet, Rec. = 0.4 ft	10						
		No Sample, 12.0 ft - 14.0 ft	9						
		Visual Classification, CISI, gry, Wet, Rec. = 1.7 ft	5	28.1					
		A-4, Si with Little Organics (11.6%), gry, Wet, Rec. = 1.4 ft	3	81.3	0.0	10.3	89.7		
		A-1-b, Sa, gry, Wet, Rec. = 1.2 ft	11	20.3	17.6	69.1	13.3		
		Visual Classification, CISI, gry, Wet, Rec. = 1.2 ft	6	30.1					
		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	6	33.2					
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	2	40.9	0.0	0.3	99.7	38	16
		Visual Classification, CISI, gry, Wet, Rec. = 2.0 ft	3	38.0					
		Visual Classification, SiCl, gry, Wet, Rec. = 1.4 ft	2	37.1					
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	3	36.5	0.0	4.8	95.2	35	14

LOG OF BORING: COVENTRY RR WACR BR561.PJ VT AUT.GDT 7/19/11

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-105 SHEET 2 of 2 DATE STARTED: 9/11/09 DATE COMPLETED: 9/12/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE PLAN VIEW OFFSET: 0.00 VTSPG NAD83: N 852619.30 ft E 1716515.20 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 699.5 ft GROUNDWATER DEPTH: NONE TAKEN PROJECT PIN NUMBER: 09G114							
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: CEE							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Visual Classification, CISI, gry, Wet, Rec. = 1.8 ft	5	35.6					
		Visual Classification, CISI, gry, Wet, Rec. = 2.0 ft	5	31.5					
		A-4, CISI, gry, Wet, Rec. = 2.0 ft	5	28.4	0.0	0.9	99.1	29	9
		Visual Classification, CISI, gry, Wet, Rec. = 1.5 ft	8	29.0					
		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	8	27.0					
		A-4, Si, gry, Wet, Rec. = 1.9 ft	7	22.1	0.1	17.2	82.7	21	4
		Visual Classification, CISI, gry, Wet, Rec. = 0.6 ft	1	30.7					
		A-4, Si, gry, Wet, Rec. = 0.9 ft, Broken Rock was within sample. BXDC, Cobbles, 98.0 ft - 98.8 ft	R	26.0	5.8	1.9	92.3		
		Cobbles & Boulder, 102.0 ft - 104.4 ft							
		Visual Classification, Broken Rock 107.5 ft - 110.5 ft, Gray, Phyllite, Moderately hard, Unweathered, BXMDC, Competent	R	97	43	35	5 7 12		
		110.5 ft - 115.5 ft, Gray, Phyllite, Moderately hard, Unweathered, BXMDC, grading to Meta-Limestone, Competent	2	100	94	35	9 8 7 8		
		115.5 ft - 117.5 ft, Gray, Meta-Limestone, Hard, Unweathered, BXMDC, Competent Hole stopped @ 117.5 ft	3	100	98	35	7 7		

LOG OF BORING: COVENTRY RR WACR BR562.PJ VT AUT.GDT 7/19/11

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: BB-01 SHEET 1 of 2 DATE STARTED: 9/08/09 DATE COMPLETED: 9/15/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE BORING PLAN OFFSET: 18' WEST VTSPG NAD83: N 852973.60 ft E 1716491.40 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 696.0 ft GROUNDWATER DEPTH: * SEE NOTE PROJECT PIN NUMBER: 09G114		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL & TUBE CHECKED BY: CEE					
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL & TUBE CHECKED BY: CEE							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		A-1-b, GrSa, blk, Wet, Rec. = 0.6 ft	6	21.9	35.5	55.6	8.9		
		A-2-4, SiSa, blk, Wet, Rec. = 1.5 ft	2	26.7	0.3	69.9	29.8		
		A-2-4, Sa, blk, Wet, Rec. = 1.3 ft	2	37.0	0.0	86.4	13.6		
		A-3, Sa, blk, Wet, Rec. = 1.2 ft, Chunks of Wood were within sample and removed before gradation.	5	46.6	4.0	86.9	9.1		
		Field Note: No Recovery, Trace of sand, gravel, & wood, Crushed Shelby tube.							
		Shelby Tube, Rec. = 2.0 ft, 27.0 ft - 29.0 ft							
		Field Note: Pushed vane 2.0 ft. Vane Shear 870/100 psf, 33.3 ft - 34.0 ft							
		A-4, Si, gry, Wet, Rec. = 2.0 ft	WH	35.9	0.0	0.2	99.8	28	6
		A-6, SiCl, gry, MTW, Rec. = 2.0 ft Shelby Tube, 42.7 ft - 44.0 ft		37.3	0.0	0.3	99.7	39	17
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	1	39.0	0.0	0.5	99.5	34	12
		Field Note: Pushed vane 2.0 ft. Vane Shear 900/300 psf, 53.3 ft - 54.0 ft							
		A-4, Cisi, gry, Wet, Rec. = 1.9 ft	6	35.5	0.0	0.6	99.4	31	8
		A-4, Cisi, gry, Wet, Rec. = 2.0 ft		46.1	0.0	0.2	99.8	30	8
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	2	35.5	0.0	1.5	98.5	36	15
		Field Note: Pushed vane 2.0 ft. Vane Shear 870/350 psf, 73.3 ft - 74.0 ft							
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	5	33.2	0.0	0.5	99.5	32	12
		Shelby Tube, 82.0 ft - 84.0 ft							
		Visual Classification, SiCl, gry, Wet, Rec. = 1.7 ft	11	25.5					

LOG OF BORING COVENTRY BR WACR BR561.09, VT.M01.G01 7/19/11

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: BB-01 SHEET 2 of 2 DATE STARTED: 9/08/09 DATE COMPLETED: 9/15/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE BORING PLAN OFFSET: 18' WEST VTSPG NAD83: N 852973.60 ft E 1716491.40 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 696.0 ft GROUNDWATER DEPTH: * SEE NOTE PROJECT PIN NUMBER: 09G114		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL & TUBE CHECKED BY: CEE					
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL & TUBE CHECKED BY: CEE							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Field Note: Pushed vane 2.0 ft. Vane Shear 950/350 psf, 93.3 ft - 94.0 ft							
		A-4, Si, gry, Wet, Rec. = 1.4 ft	4	22.3	0.0	14.7	85.3		
		Cisi, gry, Wet, Rec. = 2.0 ft, 102.0 ft - 104.0 ft	3	30.7					
		A-4, Cisi, gry, Wet, Rec. = 2.0 ft	7	26.2	0.0	1.0	99.0	27	8
		A-4, Cisi, gry, Wet, Rec. = 1.2 ft NXDC, Boulder, 113.3 ft - 116.0 ft	R	28.2	0.0	1.4	98.6	27	8
		A-4, Si, gry, Wet, Rec. = 0.6 ft	8	28.7	0.9	1.0	98.1		
		A-4, Si, gry, Wet, Rec. = 1.4 ft	5	29.0	0.0	0.6	99.4		
		No Sample, 127.0 ft - 129.0 ft	9						
		A-1-b, SaGr, gry, Wet, Rec. = 0.8 ft, Broken rock was within sample.	27	9.9	45.3	40.0	14.7		
		A-2-4, Sa, gry, Wet, Rec. = 0.4 ft Cobbles, 137.5 ft - 138.4 ft	R	17.2	18.3	64.9	16.8		
		138.9 ft - 142.8 ft, Gray, Meta-Limestone, Hard, Unweathered, NXMDC, with quartz vein from 141.9 ft to 142.6 ft, Competent	1	100	50	45	7		
		142.8 ft - 143.8 ft, White, Quartz, Very hard, Weathered and sheared, Some staining. Not Competent	2	100	50	60	6		
		143.9 ft - 144.8 ft, White, Quartz, Very hard, NXMDC, Unweathered and sheared, Competent					7		
		144.8 ft - 147.2 ft, Gray, Meta-Limestone, Moderately hard to hard, Unweathered, Competent					8		
		147.2 ft - 148.9 ft, Gray, Phyllite, Moderately hard to hard, Unweathered, Competent					9		
		Hole stopped @ 148.9 ft					9		
		DRILLER'S NOTES: 1. Vane used was 3x6 inches. 2. Vane Shear = Initial/Remold							
		* Drilled to 119.0 ft on 09/14/09. On the following day water was flowing out of the casing that was 3.5 ft above the ground and continued to flow during the duration of the boring.							

LOG OF BORING COVENTRY BR WACR BR561.09, VT.M01.G01 7/19/11

VTTrans <small>Working to Get You There</small>		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: BB-03 SHEET 1 of 2 DATE STARTED: 9/17/09 DATE COMPLETED: 9/24/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE BORING PLAN OFFSET: 12' EAST VTSPG NAD83: N 852991.90 ft E 1716517.40 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 700.0 ft GROUNDWATER DEPTH: * SEE NOTE PROJECT PIN NUMBER: 09G114							
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: CEE							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Cobbles & Gravel, 2.0 ft - 4.0 ft							
		Fill material, 4.0 ft - 6.0 ft							
10		Visual Classification, Si, brn, Wet, Rec. = 0.3 ft, Insufficient sample for testing.	3						
		Visual Classification, GrSi, brn, Wet, Rec. = 0.4 ft, Insufficient sample for testing.	5						
20		A-2-4, SiSa, gry, Wet, Rec. = 1.5 ft	5	25.8	1.5	76.9	21.6		
		A-3, Sa, gry, Wet, Rec. = 1.1 ft	4	25.5	1.3	92.8	5.9		
		Wood, 23.8 ft - 24.4 ft							
30		A-4, Si, gry, Wet, Rec. = 0.3 ft	WH	28.0	0.0	17.3	82.7		
		A-4, CISI, gry, Wet, Rec. = 1.5 ft	6	29.0	0.1	1.9	98.0	29	8
40		Field Note: Pushed vane 2.0 ft. Vane Shear 470/160 psf, 38.3 ft - 39.0 ft							
		A-4, Si, gry, Wet, Rec. = 0.4 ft	1	34.1	0.0	0.6	99.4		
50		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	WH	40.9	0.0	0.5	99.5	35	12
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	3	41.3	0.0	0.3	99.7	35	12
60		Field Note: Pushed vane 2.0 ft. Vane Shear 540/150 psf, 58.3 ft - 59.0 ft							
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	2	37.0	0.0	1.1	98.9	35	13
70		Visual Classification, CISI, gry, Wet, Rec. = 2.0 ft	1	35.2					
		Visual Classification, SiCl, gry, Wet, Rec. = 2.0 ft	WH	35.9					
80		Field Note: Pushed vane 2.0 ft. Vane Shear 400/350 psf, 78.3 ft - 79.0 ft							
		A-6, SiCl, gry, Wet, Rec. = 0.9 ft	3	35.9	0.0	0.9	99.1	34	14

LOG OF BORING COVENTRY BR WACR BR562.GPJ VT_AOT.GDT 7/19/11

VTTrans <small>Working to Get You There</small>		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: BB-03 SHEET 2 of 2 DATE STARTED: 9/17/09 DATE COMPLETED: 9/24/09					
PROJECT NAME: COVENTRY SITE NAME: RAILROAD STATION: SEE BORING PLAN OFFSET: 12' EAST VTSPG NAD83: N 852991.90 ft E 1716517.40 ft		PROJECT NUMBER: WACR BR.561 & 562 SITE NUMBER: GROUND ELEVATION: 700.0 ft GROUNDWATER DEPTH: * SEE NOTE PROJECT PIN NUMBER: 09G114							
BORING CREW CREW CHIEF: PORTER DRILLER: PORTER LOGGER: MAHMUTOVIC		BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: CEE							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
90		Visual Classification, CISI, gry, Wet, Rec. = 2.0 ft	8	31.3					
		A-4, CISI, gry, Wet, Rec. = 0.7 ft	7	23.8					
100		Field Note: Pushed vane 2.0 ft. Vane Shear 1050/380 psf, 98.3 ft - 99.0 ft							
		A-4, SaSi, gry, Wet, Rec. = 1.9 ft	8	23.0	0.0	20.4	79.6		
110		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	5	25.5					
		Visual Classification, SiCl, gry, Wet, Rec. = 2.0 ft	3	27.2					
120		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	5	30.8	0.0	1.3	98.7	34	13
		Visual Classification, Si, gry, Wet, Rec. = 1.4 ft	WH	30.3					
130		Visual Classification, Si, gry, Wet, Rec. = 1.1 ft	1	30.3					
		A-4, Si, gry, Wet, Rec. = 1.5 ft	4	25.1	0.0	8.6	91.4		
140		Visual Classification, SaSi, gry, Wet, Rec. = 2.0 ft	8	20.9					
		Boulder, 141.4 ft - 142.6 ft							
		Cobbles, 142.6 ft - 147.0 ft							
		Top of Bedrock @ 147.0 ft							
150		147.0 ft - 152.0 ft, Gray, Meta-Limestone, Hard, Unweathered, NXMDC, with thin quartz vein, Competent	1	78	62	45		9	8
								7	7
								6	6
								7	7
								8	8
160		152.0 ft - 157.0 ft, Gray, Meta-Limestone, Hard, NXMDC, with thin quartz vein, Severely weathered from 155.9 ft - 156.4 ft, Competent except for the 155.9 ft - 156.4 ft section	2	98	78	45			
		Hole stopped @ 157.0 ft							
		DRILLER'S NOTES: 1. Vane used was 3x6 inches. 2. Vane Shear = Initial/Remold							
		* No water return during this boring. Water table was possibly at river depth.							

LOG OF BORING COVENTRY BR WACR BR562.GPJ VT_AOT.GDT 7/19/11



STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: BB-05
SHEET 1 of 2
DATE STARTED: 8/31/09
DATE COMPLETED: 9/03/09

PROJECT NAME: COVENTRY
SITE NAME: RAILROAD
STATION: SEE BORING PLAN
OFFSET: 22' EAST
VTSPG NAD83: N 852868.30 ft E 1716523.50 ft

PROJECT NUMBER: WACR BR.561 & 562
SITE NUMBER:
GROUND ELEVATION: 695.0 ft
GROUNDWATER DEPTH: * SEE NOTE
PROJECT PIN NUMBER: 09G114

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: MAHMUTOVIC

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
9		Visual Classification, SiGrSa, blk, Wet, Rec. = 0.9 ft	9	14.8					
10		Visual Classification, GrSaSi, blk, Wet, Rec. = 0.4 ft	2	22.6					
11		Visual Classification, Sa, gry, Wet, Rec. = 1.1 ft	2	38.2	0.3	86.8	12.9		
12		Visual Classification, Sa, gry, Wet, Rec. = 0.9 ft	7	17.6					
13		A-2-4, SiSaGr, gry, Wet, Rec. = 0.9 ft	4	15.4	37.8	32.3	29.9		
14		Visual Classification, Cisi, gry, Wet, Rec. = 0.8 ft	2	29.4					
15		A-4, Si, gry, Wet, Rec. = 2.0 ft	2	32.7	0.0	0.1	99.9	30	5
16		Visual Classification, Cisi, gry, Wet, Rec. = 2.0 ft	WH	37.3					
17		Visual Classification, Cisi, gry, Wet, Rec. = 2.0 ft	1	35.3					
18		A-4, Cisi, gry, Wet, Rec. = 2.0 ft	WH	33.4	0.0	0.5	99.5	32	10
19		Visual Classification, Cisi, gry, Wet, Rec. = 0.9 ft	2	39.2					
20		Visual Classification, Cisi, gry, Wet, Rec. = 2.0 ft	5	35.0					
21		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	5	36.8	0.0	0.5	99.5	40	15
22		Visual Classification, SiCl, gry, Wet, Rec. = 2.0 ft	8	30.8					
23		Visual Classification, Cisi, gry, Wet, Rec. = 1.8 ft	10	28.2					
24		A-4, Cisi, gry, Wet, Rec. = 1.4 ft	5	30.6	0.0	1.2	98.8	30	8
25		Visual Classification, Cisi, gry, Wet, Rec. = 2.0 ft	14	26.5					
26		Visual Classification, Si, gry, Wet, Rec. = 1.8 ft	9	21.3					
27		A-4, Si, gry, Wet, Rec. = 2.0 ft	3	24.0	0.0	5.3	94.7		
28		Visual Classification, Si, gry, Wet, Rec. = 1.4 ft	9	25.6					

LOG OF BORING COVENTRY RR WACS BR561.PJ VT AUT.GDT 7/19/11



STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: BB-05
SHEET 2 of 2
DATE STARTED: 8/31/09
DATE COMPLETED: 9/03/09

PROJECT NAME: COVENTRY
SITE NAME: RAILROAD
STATION: SEE BORING PLAN
OFFSET: 22' EAST
VTSPG NAD83: N 852868.30 ft E 1716523.50 ft

PROJECT NUMBER: WACR BR.561 & 562
SITE NUMBER:
GROUND ELEVATION: 695.0 ft
GROUNDWATER DEPTH: * SEE NOTE
PROJECT PIN NUMBER: 09G114

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: MAHMUTOVIC

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	N VALUE	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
4		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	4	27.2					
7		A-4, Cisi, gry, Wet, Rec. = 2.0 ft	7	26.3	0.0	2.7	97.3	27	7
11		Visual Classification, Cisi, gry, Wet, Rec. = 1.9 ft	11	22.1					
12		A-4, Cisi, gry, Wet, Rec. = 2.0 ft	WH	31.6	0.0	0.9	99.1	30	7
13		Visual Classification, Si, gry, Wet, Rec. = 1.6 ft	7	25.9					
14		Visual Classification, Si, gry, Wet, Rec. = 2.0 ft	2	21.1					
15		A-4, Si, gry, Wet, Rec. = 0.4 ft	8	19.9	0.0	8.6	91.4		
16		Visual Classification, Cisi, gry, Wet, Rec. = 2.0 ft	9	23.1					
17		Visual Classification, Si, gry, Wet, Rec. = 1.7 ft	10	23.1					
18		A-4, Si, gry, Wet, Rec. = 1.8 ft	15	22.8	0.0	17.1	82.9		
19		Visual Classification, SaSi, gry, Wet, Rec. = 1.0 ft	26	18.3					
20		A-4, SaSi, gry, Wet, Rec. = 1.8 ft	4	18.2	0.5	40.0	59.5		
21		Field Note: BXDC, Cored ahead in cobbles/gravel/& possible weathered rock							
22		164.3 ft - 169.3 ft, Gray, Meta-Limestone, Hard, Unweathered, BXMDC, Competent	1	100	84	35	7 6 8 9 8		
23		169.3 ft - 174.3 ft, Gray, Meta-Limestone, Hard, Unweathered, BXMDC, Competent	2	100	92	35	6 5 4 5 4		
24		Hole stopped @ 174.3 ft							
25		* Drilled to 124.0 ft on 09/01/09. On the following day water was flowing out of the casing that was 3.5 ft above the ground and continued to flow during the duration of the boring.							

LOG OF BORING COVENTRY RR WACS BR561.PJ VT AUT.GDT 7/19/11

