

APPENDIX G

Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
LEX		
Marshall County, WV		
0.0	0.0	126
<i>Approximate Percent of Pipeline Crossing Length</i>		0.01%
Greene County, PA		
0.6	0.6	205
0.6	0.7	185
<i>Approximate Percent of Pipeline Crossing Length</i>		0.05%
Marshall County, WV		
2.1	2.1	76
2.1	2.2	326
2.2	2.2	87
2.2	2.3	183
2.4	2.4	127
2.4	2.5	324
2.5	2.5	184
2.6	2.7	399
2.7	2.9	801
2.9	3.0	536
3.0	3.1	661
3.1	3.2	338
3.2	3.2	299
3.2	3.3	333
3.3	3.4	630
3.4	3.4	123
3.5	3.5	128
3.5	3.5	138
3.5	3.6	481
3.6	3.7	555
3.7	3.8	140
3.8	3.8	50
3.8	3.8	128
3.8	3.8	189
3.9	4.0	543
4.0	4.0	73
4.0	4.1	120
4.1	4.1	184
4.1	4.1	169
4.1	4.2	155
4.2	4.2	355
4.3	4.4	792
4.4	4.4	204
4.4	4.5	370
4.5	4.5	119

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
4.5	4.5	44
4.5	4.6	347
4.6	4.7	210
4.7	4.7	228
4.7	4.7	153
4.8	4.8	148
4.8	4.8	199
4.9	5.0	701
5.0	5.1	199
5.1	5.1	120
5.1	5.3	864
5.3	5.3	140
5.3	5.4	150
5.4	5.4	50
5.4	5.4	128
5.4	5.5	291
5.5	5.5	155
5.5	5.5	196
5.5	5.6	208
5.6	5.6	111
5.6	5.6	191
5.6	5.7	110
5.7	5.8	553
5.8	5.8	121
6.0	6.0	156
6.1	6.1	132
6.1	6.2	122
6.2	6.2	165
6.2	6.2	189
6.3	6.4	361
6.4	6.5	260
6.5	6.5	316
6.5	6.6	214
6.6	6.6	44
6.6	6.6	306
6.6	6.8	877
6.8	6.9	520
7.0	7.0	123
7.0	7.1	98
7.1	7.1	281
7.1	7.2	376
7.2	7.3	730
7.3	7.3	50
7.3	7.4	338
7.4	7.4	207

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
7.4	7.5	161
7.5	7.5	161
7.5	7.6	104
7.6	7.7	904
7.7	7.7	23
7.8	7.8	198
7.9	7.9	72
8.0	8.0	67
8.0	8.0	174
8.0	8.1	290
8.2	8.2	442
8.3	8.3	26
8.3	8.4	161
8.4	8.4	323
8.5	8.5	177
8.6	8.6	208
8.6	8.7	336
8.6	8.7	233
8.7	8.7	79
8.7	8.7	94
8.7	8.8	189
8.7	8.9	372
8.8	9.0	208
9.0	9.0	28
9.0	9.1	313
9.1	9.1	101
9.1	9.2	103
9.2	9.2	54
9.2	9.2	136
9.2	9.3	184
9.7	9.8	518
9.8	9.9	281
9.9	10.0	461
10.0	10.0	396
10.0	10.1	498
10.1	10.2	214
10.2	10.2	76
10.2	10.2	153
10.2	10.3	427
10.3	10.4	474
10.6	10.6	46
10.6	10.6	112
10.6	10.6	42
10.6	10.6	108
10.7	10.8	436

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
10.8	10.9	436
10.9	11.0	268
11.0	11.0	187
11.1	11.1	194
11.2	11.3	268
11.3	11.3	251
11.3	11.4	163
11.4	11.5	453
11.5	11.6	131
11.6	11.6	112
11.6	11.6	204
11.6	11.6	65
11.6	11.7	148
11.8	11.8	66
11.8	11.8	95
11.8	11.8	254
11.8	11.9	99
11.9	11.9	278
12.0	12.0	10
12.0	12.0	316
12.1	12.1	196
12.1	12.1	100
12.1	12.2	297
12.2	12.3	709
12.3	12.4	228
12.4	12.4	339
12.4	12.5	129
12.5	12.5	261
12.8	12.8	180
12.8	12.8	31
12.9	12.9	157
12.9	12.9	207
12.9	13.0	341
13.0	13.0	123
13.0	13.1	217
13.1	13.1	151
13.1	13.1	86
13.1	13.1	60
13.1	13.1	179
13.1	13.2	67
13.2	13.2	162
13.2	13.3	64
13.3	13.3	123
13.3	13.3	117
13.4	13.4	198

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
13.4	13.4	102
13.5	13.5	160
13.7	13.7	174
13.7	13.7	52
13.7	13.7	199
13.7	13.8	208
13.8	13.8	341
13.9	13.9	80
14.0	14.0	147
14.1	14.1 (RR-2)	108
14.1 (RR-2)	14.2 (RR-2)	213
14.2 (RR-2)	14.2 (RR-2)	216
14.3 (RR-2)	14.4 (RR-2)	468
14.5 (RR-2)	14.5 (RR-2)	132
14.6 (RR-2)	14.6 (RR-2)	165
14.6 (RR-2)	14.6 (RR-2)	47
14.6 (RR-2)	14.8 (RR-2)	943
14.8 (RR-2)	14.8 (RR-2)	87
14.8 (RR-2)	14.8 (RR-2)	111
14.8 (RR-2)	14.8 (RR-2)	87
14.8 (RR-2)	14.9 (RR-2)	389
14.9 (RR-2)	15.0 (RR-2)	566
15.0 (RR-2)	15.2 (RR-2)	939
15.8 (RR-2)	15.8 (RR-2)	110
15.8 (RR-2)	15.8 (RR-2)	52
15.8 (RR-2)	15.1	267
15.1	15.1	88
15.1	15.2	94
15.2	15.2	222
15.3	15.4	128
15.4	15.4	126
15.4	15.5	442
15.5	15.5	163
15.6	15.6	117
15.6	15.6	150
15.6	15.6	77
15.6	15.7	224
15.7	15.7	117
15.8	15.8	261
15.8	15.8	100
15.8	15.9	134
15.9	15.9	331
16.3	16.3	144
16.3	16.3	110
16.3	16.3	80

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
16.3	16.4	301
16.4	16.4	127
16.4	16.5	285
16.5	16.5	112
16.5	16.6	277
16.6	16.6	310
16.6	16.7 (RR-3)	264
16.7 (RR-3)	16.7 (RR-3)	134
16.7 (RR-3)	16.7 (RR-3)	134
17.1 (RR-3)	17.2	264
17.2	17.2	441
17.3	17.3	93
17.3	17.3	326
17.3	17.4	108
17.4	17.4	99
17.4	17.4	86
17.4	17.4	181
17.4	17.4	29
17.5	17.5	79
17.5	17.6	562
17.6	17.7	282
17.7	17.7	76
17.7	17.7	167
17.7	17.7	61
17.7	17.8	199
17.8	17.8	94
17.8	17.9	642
17.9	17.9	65
17.9	18.0	127
18.0	18.0	109
18.0	18.0	86
18.0	18.0	170
18.0	18.2	879
18.2	18.2	82
18.2	18.2	108
18.2	18.3	270
18.3	18.3	227
18.3	18.4	163
18.4	18.4	66
18.4	18.4	132
18.4 (RR-4)	18.5 (RR-4)	233
18.5 (RR-4)	18.5 (RR-4)	260
18.5 (RR-4)	18.6 (RR-4)	79
18.6 (RR-4)	18.6 (RR-4)	85
18.6 (RR-4)	18.6 (RR-4)	112

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
18.6 (RR-4)	18.7	658
18.8	18.8	90
18.8	18.8	137
18.8	18.9	230
18.9	19.0	630
19.0	19.0	73
19.0	19.0	90
19.0	19.0	205
19.0	19.1	41
19.1	19.1	137
19.1	19.1	283
19.2	19.3	233
19.3	19.3	46
19.3	19.3	127
19.3	19.3	188
19.3	19.4	247
19.4	19.5	468
19.5	19.6	730
19.6	19.7	283
19.7	19.7	396
19.7	19.8	230
19.8	19.8	265
19.8	19.9	116
19.9	20.0	554
20.0	20.0	91
20.0	20.1	559
20.1	20.2	364
20.2	20.2	383
20.2	20.4	637
20.4	20.5	956
20.6	20.8	836
20.8	20.9	420
20.9	21.0	531
21.3	21.3	118
21.6	21.7	920
21.7	21.8	58
21.8	21.8	350
21.8	21.9	180
21.9	21.9	228
21.9	22.0	620
22.0	22.1	316
22.1	22.1	406
22.1	22.3	909
22.3	22.3	104
22.3	22.4	162

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
22.4	22.5	454
22.5	22.5	218
22.5	22.5	164
22.5	22.5	57
22.5	22.6	482
22.6	22.6	31
22.6	22.7	225
22.7	22.8	601
22.8	22.8	180
22.8	22.9	172
22.9	22.9	127
22.9	23.0	445
23.0	23.0	137
23.0	23.2	1,004
23.4	23.5	599
23.5	23.6	240
23.6	23.6	169
23.6	23.6	15
23.6	23.7	564
23.7	23.7	92
23.7	23.8	234
23.8	23.8	82
23.8	23.8	59
23.8	24.0	691
24.0	24.1	649
24.1	24.1	118
24.1	24.2	91
24.2	24.3	631
24.3	24.4	442
24.4	24.4	106
24.4	24.4	113
24.4	24.4	97
24.4	24.5	554
24.5	24.6	541
24.6	24.7	255
24.7	24.7	250
24.9	24.9	77
25.0	25.0	163
25.0	25.0	32
25.0	25.1	318
<i>Approximate Percent of Pipeline Crossing Length</i>		10%
Monroe County, OH		
25.8 (RR-5)	25.9 (RR-5)	421
25.9 (RR-5)	25.9 (RR-5)	144
26.0 (RR-5)	26.1 (RR-5)	735

**APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT**

APPENDIX G		
Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
26.1 (RR-5)	26.3 (RR-5)	953
26.3 (RR-5)	26.3 (RR-5)	215
26.3 (RR-5)	26.4 (RR-5)	224
26.4 (RR-5)	26.5 (RR-5)	631
26.5 (RR-5)	26.6 (RR-5)	503
26.6 (RR-5)	26.8 (RR-5)	1,288
26.8 (RR-5)	27.0 (RR-5)	595
27.0 (RR-5)	27.0 (RR-5)	319
27.0 (RR-5)	27.0	1,158
27.0	27.0	64
27.0	27.1	270
27.1	27.2	457
27.2	27.2	143
27.2	27.2	111
27.2	27.3	227
27.3	27.4	597
27.4	27.4	86
27.4	27.4	280
27.4	27.5	225
27.5	27.6	512
27.6	27.6	116
27.6	27.6	158
27.6	27.7	181
27.7	27.7	136
27.7	27.7	70
27.7	27.8	296
27.8	27.8	90
27.8	27.8	59
27.8	27.8	106
27.8	27.9	187
27.9	27.9	152
27.9	27.9	65
27.9	27.9	90
27.9	28.0	366
28.0	28.1	642
28.1	28.2	191
28.2	28.3	554
28.3	28.5	1,216
28.5	28.6	182
28.6	28.6	85
28.6	28.7	147
28.7	28.7	164
28.7	28.7	240
28.7	28.8	628
28.8	28.9	336

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
28.9	28.9	139
28.9	29.0	403
29.0	29.1	367
29.1	29.1	36
29.1	29.1	254
29.1	29.3	644
29.3	29.3	93
29.3	29.4	477
29.4	29.4	114
29.4	29.4	152
29.4	29.4	88
29.4	29.5	288
29.5	29.5	96
29.5	29.5	61
29.5	29.7	779
29.7	29.7	206
29.7	29.7	132
29.7	29.8	391
29.8	29.8	219
29.8	29.9	370
29.9	29.9	120
29.9	30.0	143
30.0	30.1	474
30.1	30.1	92
30.1	30.2	429
30.2	30.2	133
30.2	30.4	978
30.4	30.4	221
30.5	30.5	411
30.7	30.7	137
30.7	30.8	584
30.8	31.0	728
31.0	31.0	330
31.0	31.1	229
31.1	31.1	296
31.1	31.2	181
31.2	31.2	232
31.2	31.3	209
31.3	31.3	456
31.3	31.4	153
31.4	31.4	179
31.4	31.5	160
31.5	31.5	177
31.5	31.5	307
31.5	31.6	145

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
31.6	31.6	187
31.6	31.7	209
31.7	31.7	185
31.7	31.7	102
31.7	31.8	170
31.8	31.8	172
31.8	31.9	170
31.9	31.9	474
31.9	32.0	534
32.0	32.1	475
32.1	32.2	377
32.2	32.3	136
32.3	32.3	167
32.3	32.4	200
32.4	32.4	239
32.4	32.5	721
32.5	32.6	364
32.6	32.7	369
32.7	32.8	620
32.8	32.9	558
32.9	32.9	122
32.9	33.0	99
33.0	33.1	790
33.1	33.1	71
33.1	33.2	173
33.2	33.2	137
33.2	33.2	83
33.2	33.2	134
33.2	33.3	140
33.3	33.3	350
33.3	33.4	167
33.4	33.4	115
33.5	33.6	437
33.6	33.6	74
33.6	33.6	205
33.6	33.7	395
33.7	33.7	144
33.7	33.7	87
33.7	34.1	2,099
34.1	34.2	213
34.2	34.2	291
34.2	34.2	17
34.3	34.3	224
34.3	34.4	253
34.4	34.4	95

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
34.4	34.4	50
34.4	34.4	96
34.4	34.5	351
34.5	34.5	129
34.5	34.6	204
34.6	34.6	169
34.6	34.7	153
34.7	34.7	260
34.7	34.7	139
34.8	34.8	127
34.8	34.9	349
34.9	34.9	50
34.9	34.9	251
34.9	34.9	91
34.9	35.0	81
35.0	35.0	112
35.0	35.1	457
35.1	35.1	111
35.1	35.2	115
35.2	35.2	305
35.3	35.3	111
35.3	35.3	172
35.3	35.4	250
35.4	35.4	224
35.4	35.5	538
35.5	35.6	467
35.6	35.7	300
35.7	35.7	256
35.7	35.8	138
35.8	35.8	395
35.8	35.9	380
35.9	36.0	670
36.0	36.0	80
36.0	36.1	91
36.1	36.1	147
36.1	36.1	146
36.1	36.2	341
36.2	36.2	115
36.2	36.3	271
36.3	36.4	620
36.4	36.4	101
36.4	36.4	94
36.4	36.4	76
36.5	36.5	133
36.5	36.6	190

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
36.6	36.6	163
36.6	36.6	274
36.6	36.7	165
36.7	36.7	180
36.7	36.7	193
36.7	36.8	54
36.8	36.9	654
36.9	36.9	105
36.9	37.0	330
37.0	37.0	188
37.0	37.1	391
37.1	37.1	217
37.1	37.2	295
37.2	37.3	387
37.3	37.3	228
37.3	37.3	128
37.3	37.5	951
37.5	37.6	189
37.6	37.6	224
37.6	37.6	264
37.6	37.8	589
37.8	37.8	143
37.8	37.8	294
37.8	37.9	366
37.9	38.0	381
38.0	38.0	112
38.0	38.0	172
38.0	38.1	313
38.1	38.1	149
38.1	38.2	175
38.2	38.2	179
38.2	38.2	90
38.2	38.3	224
38.3	38.3	207
38.3	38.4	349
38.4	38.4	234
38.4	38.4	238
38.4	38.5	327
38.5	38.6	487
38.6	38.6	239
38.6	38.7	232
38.7	38.7	111
38.7	38.7	112
38.7	38.8	233
38.8	38.8	262

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
38.8	38.9	364
38.9	38.9	213
38.9	39.0	399
39.0	39.1	274
39.1	39.2	494
39.2	39.2	127
39.2	39.2	3
39.2	39.2	276
39.2	39.3	247
39.3	39.3	44
39.3	39.3	107
39.3	39.3	81
39.3	39.3	122
39.3	39.4	123
39.4	39.5	492
39.5	39.6	281
39.6	39.6	142
39.6	39.6	197
39.6	39.7	242
39.7	39.7	203
39.7	39.7	86
39.7	39.8	437
39.8	39.8	194
39.8	39.9	127
39.9	39.9	121
39.9	39.9	301
39.9	40.0	102
40.0	40.1	972
40.1	40.3	586
40.3	40.4	709
40.4	40.5	434
40.5	40.6	215
40.6	40.6	177
40.6	40.6	3
40.6	40.6	59
40.6	40.6	200
40.6	40.7	146
40.7	40.7	205
40.7	40.8	226
40.8	40.9	374
40.9	40.9	356
40.9	41.1	696
41.1	41.1	146
41.1	41.1	76
41.1	41.1	74

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
41.1	41.2	246
41.2	41.2	369
41.2	41.4	784
41.4	41.4	124
41.4	41.5	263
41.5	41.5	154
41.5	41.6	322
41.6	41.6	115
41.6	41.7	234
41.7	41.7	173
41.7	41.7	71
41.7	41.7	241
41.7	41.8	75
41.8	41.8	74
41.8	41.9	502
41.9	41.9	112
41.9	41.9	241
41.9	42.0	310
42.0	42.0	64
42.0	42.0	163
42.0	42.1	294
42.1	42.2	373
42.2	42.3	492
42.3	42.3	319
42.3	42.5	1,077
42.5	42.5	48
42.5	42.6	49
42.6	42.6	515
42.6	42.7	172
42.7	42.7	138
42.7	42.7	205
42.7	42.8	40
42.8	42.8	122
42.8	42.8	50
42.8	42.9	496
42.9	42.9	202
42.9	42.9	150
42.9	43.0	182
43.0	43.0	177
43.0	43.0	101
43.0	43.1	391
43.1	43.2	620
43.2	43.2	24
43.2	43.3	138
43.3	43.3	484

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
43.3	43.4	492
43.4	43.4	11
43.4	43.5	126
43.5	43.5	53
43.5	43.5	131
43.5	43.5	168
43.5	43.6	224
43.6	43.6	63
43.6	43.6	268
43.6	43.7	481
43.7	43.8	444
43.8	43.8	110
43.8	43.9	259
43.9	43.9	120
43.9	43.9	218
43.9	44.0	214
44.0	44.0	55
44.0	44.0	118
44.0	44.1	104
44.1	44.1	200
44.1	44.2	753
44.2	44.3	345
44.3	44.4	406
44.4	44.4	151
44.4	44.5	167
44.5	44.5	76
44.5	44.5	153
44.5	44.5	161
44.5	44.5	84
44.5	44.6	552
44.6	44.7	85
44.7	44.7	349
44.7	44.8	127
44.8	44.9	670
44.9	44.9	99
44.9	44.9	245
44.9	45.0	454
45.0	45.1	278
45.1	45.1	186
45.2	45.2	202
45.2	45.3	279
45.3	45.4	655
45.4	45.4	54
45.4	45.4	214
45.4	45.5	213

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
45.5	45.5	4
45.5	45.5	98
45.5	45.6	635
45.6	45.7	206
45.7	45.8	918
45.8	45.9	161
45.9	45.9	282
45.9	45.9	137
45.9	45.9	50
45.9	46.0	75
46.0	46.0	169
46.0	46.0	154
46.0	46.1	455
46.1	46.2	300
46.2	46.2	124
46.2	46.3	376
46.3	46.3	103
46.3	46.3	163
46.3	46.4	248
46.4	46.4	191
46.4	46.5	464
46.5	46.8	1,496
46.8	46.8	314
46.8	46.9	461
46.9	47.0	438
47.0	47.1	397
47.1	47.1	184
47.1	47.2	386
47.2	47.2	167
47.2	47.3	289
47.3	47.3	141
47.3	47.3	164
47.3	47.4	145
47.4	47.4	94
47.4	47.4	347
47.4	47.5	103
47.5	47.5	209
47.5	47.5	294
47.5	47.6	148
47.6	47.7	538
47.7	47.8	687
47.8	47.8	212
47.8	48.0	709
48.0	48.0	161
48.0	48.1	574

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G		
Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
48.1	48.2	242
48.2	48.2	374
48.2	48.3	168
48.3	48.3	349
48.3	48.4	127
48.4	48.5	301
48.5	48.5	90
48.5	48.6	796
48.6	48.7	354
48.7	48.8	446
48.9	48.9	213
49.0	49.1	231
49.1	49.1	41
49.1	49.1	356
49.1	49.2	247
49.3	49.3	175
49.3	49.4	229
49.5	49.5	172
49.6	49.6	206
49.6	49.7	147
49.7	49.7	106
49.7	49.7	78
49.7	49.8	697
49.8	49.9	162
49.9	49.9	379
50.1	50.1	162
50.1	50.1	138
50.1	50.2	166
50.2	50.2	15
50.2	50.2	359
50.2	50.3	182
50.3	50.3	66
50.3	50.3	156
50.4	50.5	216
50.5	50.5	114
50.5	50.5	72
50.5	50.6	547
50.6	50.7 (RR-6)	90
50.7 (RR-6)	50.7 (RR-6)	165
50.7 (RR-6)	50.8 (RR-6)	148
50.8 (RR-6)	50.9 (RR-6)	143
51.5	51.6	402
51.6	51.6	275
51.6	51.6	156
51.6	51.6	23

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
51.6	51.7	105
51.8	51.8	66
51.8	51.9	141
51.9	52.0	858
52.0	52.1	307
52.1	52.1	220
52.1	52.2	337
52.2	52.2	27
52.2	52.3	379
52.5	52.5	196
52.5	52.5	121
52.6	52.6	96
52.6	52.8	989
52.9	52.9	116
52.9	53.0	485
53.0	53.1	125
53.1	53.1	338
53.1	53.1	34
53.1	53.1	55
53.1	53.1	10
<i>Approximate Percent of Pipeline Crossing Length</i>		15%
Noble County, OH		
53.1	53.2	119
53.2	53.2	84
53.2	53.2	106
53.2	53.3	452
53.4	53.4	196
53.4	53.4	6
53.4	53.5	192
53.5	53.5	164
53.5	53.5	200
53.6	53.8	1,344
53.8	53.8	120
53.8	53.9	397
53.9	54.0	574
54.0	54.2	729
54.2	54.4	1,352
54.4	54.5 (RR-7)	474
54.5 (RR-7)	55.1 (RR-7)	2,998
55.1 (RR-7)	55.1 (RR-7)	171
55.1 (RR-7)	55.2 (RR-7)	616
55.2 (RR-7)	55.2 (RR-7)	136
55.5 (RR-7)	55.6 (RR-7)	309
55.6 (RR-7)	55.6 (RR-7)	264
55.6 (RR-7)	55.6 (RR-7)	246

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
55.6 (RR-7)	55.7 (RR-7)	293
55.7 (RR-7)	55.8 (RR-7)	688
55.9 (RR-7)	56.0 (RR-7)	561
56.0 (RR-7)	55.9	308
55.9	55.9	390
57.1	57.3	716
57.4	57.4	229
57.4	57.5	384
57.6	57.7	318
58.0	58.0	241
58.0	58.0	95
58.2	58.3	524
58.3	58.3	291
58.3	58.4	689
58.4	58.5	232
58.5	58.7	1,316
58.9	59.1	893
59.2	59.4	701
59.4	59.5	553
60.7	60.9	949
62.0	62.2	978
63.5	63.6	219
63.6	63.7	635
64.6	64.6	141
64.8	64.9	563
65.0	65.0	16
65.0	65.0	196
65.0	65.0	118
65.0	65.1	201
65.1	65.1	222
65.1	65.2	581
65.2	65.3	135
65.3	65.3	76
65.3	65.3	244
65.3	65.4	301
65.5	65.6	331
65.7	65.7	451
65.8	65.8	255
66.1	66.2	158
66.2	66.3	811
66.3	66.5	1,090
66.5	66.6	274
66.6	66.6	303
66.6	66.6	56
66.6	66.8	842

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
66.8	66.8	241
67.1	67.1	115
67.1	67.2	586
67.4	67.5	454
67.5	67.6	508
67.6	67.7	299
67.7	67.7	203
68.0	68.1	797
68.2	68.2	134
68.3	68.4	272
68.6	68.6	199
68.7	68.7	358
69.2	69.3	522
69.4	69.4	159
69.4	69.5	361
70.4	70.6	797
70.6	70.6	125
70.7	70.7	72
71.0	71.4	1,923
71.4	71.5	149
71.7	71.9	944
72.0	72.1	779
72.2	72.5	1,722
72.6	72.9	1,329
73.3	73.3	206
73.6	73.7	609
73.8	73.9	347
74.0	74.3	1,585
74.3	74.4	331
74.4	74.5	756
74.5	74.6	452
74.6	75.0	2,171
75.0	75.0	240
75.3	75.4	426
75.4	75.6	861
76.0	76.2	934
<i>Approximate Percent of Pipeline Crossing Length</i>		6%
Muskingum County, OH		
76.2	76.2	54
76.2	76.3	485
76.3	76.4	76
76.4	76.5	517
76.5	76.5	476
76.5	76.6	205
76.6	76.7	447

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
76.7	76.7	432
76.7	76.8	177
76.8	77.1	1,454
77.1	77.3	1,057
77.4	77.5	782
77.6	77.8	1,203
77.8	78.0	671
78.0	78.1	344
78.1	78.2	398
78.2	78.2	83
78.2	78.2	136
78.2	78.3	448
78.3	78.4	315
78.4	78.4	161
78.4	78.5	351
78.5	78.8	1,679
78.8	79.0	903
79.0	79.0	259
79.0	79.1	632
79.1	79.2	414
81.6	81.6	122
81.6	81.6	149
81.9	81.9	88
82.2	82.2	272
83.0	83.1	130
83.1	83.2	570
83.2	83.2	231
84.0	84.0	207
<i>Approximate Percent of Pipeline Crossing Length</i>		2%
Morgan County, OH		
85.0	85.1	710
85.1	85.2	289
85.2	85.3	429
85.3	85.5	1270
85.5	85.7	778
86.3	86.4	325
86.4	86.5	284
86.6	86.6	34
86.9	86.9	180
86.9	86.9	81
87.1	87.1	147
87.2	87.3	266
87.3	87.4	330
87.5	87.5	185
87.6	87.7	220

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
87.9	87.9	93
88.0	88.0	161
88.2	88.2	172
88.4	88.5	207
88.9	89.0	434
89.0	89.0	168
89.2	89.3	557
90.1	90.1	374
90.1	90.3	1,072
90.3	90.4	521
90.4	90.7	1,153
90.8	91.0	1,046
91.1	91.1	223
91.1	91.2	398
91.3	91.3	305
91.5	91.6	472
91.7	91.8	202
91.8	91.9	179
92.0	92.1	308
92.2	92.2	152
92.4	92.4	129
92.7	92.7	246
92.7	92.7	79
92.7	92.9	996
92.9	92.9	104
93.0	93.1	476
93.1	93.2	400
93.2	93.2	161
93.2	93.2	92
93.2	93.3	702
93.5	93.5	156
93.6	93.7	219
93.7	93.8	847
93.9	94.0	617
94.1	94.1	159
94.2	94.2	172
94.6	94.6	172
94.6	94.8	781
94.8	94.9	240
94.9	95.0	771
95.2	95.2	329
95.4	95.5	303
95.5	95.6	513
95.8	95.8	437
95.9	95.9	148

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
96.0	96.0	313
96.2	96.2	155
96.3	96.3	290
96.6	96.6	150
96.6	96.8	970
96.8	96.8	202
96.9	97.0	457
97.0	97.1	328
97.1	97.1	241
97.1	97.3	754
97.4	97.4	91
<i>Approximate Percent of Pipeline Crossing Length</i>		3%
Perry County, OH		
97.5	97.5	139
97.6	97.6	47
97.7	97.7	126
97.7	97.8	670
97.8	97.9	136
97.9	97.9	88
97.9	98.0	573
98.0	98.1	362
98.1	98.1	107
98.1	98.1	170
98.1	98.2	555
98.2	98.3	128
98.3	98.3	144
98.4	98.4	146
98.4	98.4	360
99.4	99.5	772
99.6	99.7	219
99.7	99.7	241
100.1	100.2	306
100.4	100.5	135
100.5	100.5	212
100.5	100.6	313
100.6	100.6	174
100.6	100.7	345
100.8	100.8	159
101.3	101.4	140
101.5	101.7	928
101.8	102.0	541
102.0	102.2	865
102.2	102.3	75
102.4	102.5	42
102.5	102.7	463

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
103.0	103.1	199
103.3	103.5	760
103.5	103.5	147
103.5	103.5	38
103.5	103.6	376
103.6	103.6	176
103.8	103.9	96
104.3	104.4	230
104.5	104.5	166
104.5	104.7	883
104.7	104.7	97
105.0	105.2	464
105.1	105.2	32
105.1	105.2	181
105.2	105.3	622
105.3	105.4	229
105.3	105.4	203
105.4	105.5	241
105.4	105.5	225
105.5	105.5	111
105.5	105.6	257
105.5	105.7	397
105.6	105.7	365
105.7	105.8	283
105.7	105.8	262
105.8	105.9	182
105.8	105.9	426
105.9	106.0	183
105.9	106.0	263
106.0	106.1	208
106.0	106.1	238
106.1	106.2	622
106.2	106.3	445
106.3	106.5	1,131
106.5	106.6	317
106.7	106.7	120
106.7	106.8	182
106.7	106.8	161
106.7	106.9	293
106.8	106.9	498
106.9	107.0	80
106.9	107.1	642
107.0	107.1	206
107.1	107.2	155
107.1	107.3	634

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
107.2	107.3	57
107.2	107.3	90
107.3	107.4	327
107.3	107.4	200
107.7	108.1	1,714
108.1	108.2	421
108.2	108.3	37
108.2	108.3	160
108.2	108.3	283
108.3	108.3	63
108.3	108.5	891
108.5	108.5	88
108.5	108.6	244
108.5	108.6	79
108.6	108.6	83
108.6	108.6	67
108.6	108.7	501
108.7	108.9	646
109.0	109.1	199
109.1	109.1	71
109.1	109.2	119
109.1	109.2	78
109.1	109.2	339
109.2	109.3	347
109.3	109.4	339
109.3	109.4	285
110.1	110.3	774
110.2	110.4	586
110.5	110.6	464
110.6	110.6	128
110.7	110.8	163
110.8	110.9	390
110.8	110.9	304
112.1	112.3	504
112.3	112.4	394
112.3	112.5	506
112.4	112.7	1,303
113.1	113.2	605
113.6	114.1	2,266
114.0	114.3	977
114.3	114.4	485
114.4	114.5	394
114.5	114.6	436
114.6	114.7	247
114.6	115.2	2,690

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
115.1	115.2	160
115.1	115.3	779
115.3	115.4	286
115.3	115.4	184
116.0	116.3	1,418
116.2	116.4	624
116.4	116.5	360
116.6	117.0	1,862
117.1	117.4	1,283
117.5	117.7	457
117.7	117.9	814
117.8	117.9	202
117.9	118.0	171
<i>Approximate Percent of Pipeline Crossing Length</i>		6%
Fairfield County, OH		
118.2	118.3	131
118.3	118.6	1,297
118.7	118.8	218
119.1	119.4	1,212
119.3	119.6	1,158
119.7	119.8	231
119.8	119.9	48
<i>Approximate Percent of Pipeline Crossing Length</i>		0.5%
Hocking County, OH		
119.8	119.9	151
120.2	120.3	502
120.3	120.7	1,787
120.6	120.7	6
120.6	120.7	45
120.6	120.9	990
120.8	121.1	1,002
121.0	121.3	1,212
121.3	121.4	75
121.3	121.4	276
121.4	121.5	303
121.5	121.6	470
121.8	122.0	352
122.0	122.1	137
123.7	123.9	710
123.8	123.9	183
123.9	124.0	601
124.1	124.2	358
124.2	124.3	337
124.2	124.4	705

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
124.5	124.7	803
124.7	124.8	493
124.8	125.0	840
124.9	125.0	376
125.0	125.1	545
125.2	125.4	816
125.4	125.4	168
125.4	125.5	333
<i>Approximate Percent of Pipeline Crossing Length</i>		2%
Fairfield County, OH		
125.8	125.9	292
126.2	126.3	374
126.4	126.5	160
126.7	127.0	1,625
127.1	127.2	264
127.3	127.4	88
127.4	127.5	321
127.5	127.6	229
127.6	127.7	447
128.1	128.2	488
128.2	128.4	963
128.4	128.5	268
128.4	128.5	386
128.5	128.6	162
128.5	128.6	128
128.5	128.6	134
128.6	128.8	1,035
128.8	128.9	425
128.8	128.9	106
128.9	128.9	197
128.9	129.0	182
129.0	129.1	381
129.2	129.3	395
129.3	129.4	198
<i>Approximate Percent of Pipeline Crossing Length</i>		1%
Hocking County, OH		
129.3	129.5	406
129.4	129.6	542
129.5	129.6	478
129.6	129.7	91
129.6	129.7	311
129.7	129.8	240
129.7	129.8	201
129.8	129.9	275

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
129.9	130.0	580
130.0	130.1	98
130.0	130.1	97
130.0	130.1	324
130.1	130.2	166
130.1	130.2	203
130.2	130.3	510
130.3	130.3	47
130.3	130.4	278
130.3	130.4	219
130.4	130.4	168
130.4	130.5	117
130.4	130.5	126
130.4	130.6	339
<i>Approximate Percent of Pipeline Crossing Length</i>		0.7%
LEX1		
Fairfield County, OH		
0.0	0.0	207
0.0	0.1	339
0.2	0.3	345
0.5	0.6	361
0.6	0.7	369
<i>Approximate Percent of Pipeline Crossing Length</i>		0.2%
R-801 Loop		
Hocking County, OH		
0.2	0.3	170
0.3	0.3	157
0.3	0.6	1,450
0.6	0.6	301
0.6	0.8	863
0.8	0.9	411
0.9	1.0	497
1.7	1.8	346
1.8	2.0	1,190
2.0	2.1	662
2.4	2.6	1,003
2.6	2.7	377
2.7	2.8	594
2.8	2.8	76
2.8	2.8	126
2.8	2.9	107
2.9	3.0	580

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
3.0	3.0	16
3.0	3.0	353
3.0	3.1	439
3.1	3.3	959
3.5	3.7	621
3.7	3.8	640
3.8	3.8	161
3.8	4.0	988
4.0	4.2	814
4.2	4.2	250
4.2	4.4	1,200
4.4	4.5	277
4.5	4.8	1,838
4.9	5.2	1,580
5.5	5.6	245
5.7	5.9	614
6.0	6.0	143
6.1	6.2	96
6.2	6.5	1,458
6.9	7.0	242
7.1	7.2	420
7.8	7.8	57
7.8	7.8	24
7.9	8.0	272
8.1	8.7	3,170
9.3	9.4	370
9.4	9.5	533
9.5	9.5	216
9.5	9.7	1,345
9.7	9.8	322
9.8	9.9	733
9.9	10.1	668
10.1	10.2	543
10.2	10.4	1,428
10.4	10.6	983
10.6	11.5	4,828
11.5	11.7	672
11.8	11.9	560
11.9	12.0	528
12.3	12.3	146
12.5	12.7	646
12.8	13.0	649
<i>Approximate Percent of Pipeline Crossing Length</i>		5%
Vinton County, OH		
13.4	13.4	265

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
Hocking County, OH		
13.4	13.5	147
<i>Approximate Percent of Pipeline Crossing Length</i>		0.02%
Vinton County, OH		
13.5	13.7	1,403
13.7	14.1	2,069
14.2	14.3	351
14.3	14.7	2,363
14.8	14.9	307
14.9	15.1	1,014
15.1	15.1	38
15.1	15.6	2,117
15.6	15.6	206
15.6	15.7	330
15.7	15.7	104
15.7	15.8	196
15.8	16.0	1,177
16.0	16.0	226
16.0	16.3	1,537
16.4	16.4	286
16.4	16.5	173
16.5	16.5	287
16.5	16.6	339
16.6	16.6	300
16.6	16.9	1,296
16.9	16.9	223
16.9	17.3	1,912
17.3	17.4	720
17.4	17.6	673
17.7	17.8	758
17.8	17.9	402
17.9	17.9	135
17.9	18.1	882
18.1	18.1	258
18.1	18.2	373
18.2	18.2	142
18.2	18.6	1,835
18.6	18.6	261
18.6	18.7	475
18.7	19.0	1,326
19.0	19.0	52
19.1	19.1	218
19.1	19.1	103
19.1	19.3	1,002
19.3	19.5	774

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
19.5	19.5	220
19.5	19.6	323
19.6	19.6	349
19.8	19.9	484
19.9	20.0	541
20.0	20.1	422
20.1	20.1	133
20.1	20.2	249
20.2	20.4	1,152
20.4	20.5	415
20.5	20.6	914
20.6	20.7	465
20.7	20.8	306
20.8	20.9	330
20.9	20.9	327
20.9	21.0	213
21.0	21.0	457
21.0	21.1	309
21.1	21.2	560
21.2	21.3	330
21.3	21.7	2,444
21.7	21.8	159
21.8	21.8	383
21.8	22.0	731
22.0	22.1	690
22.1	22.3	848
22.3	22.3	259
22.4	22.5	478
22.5	22.5	270
22.5	22.6	190
22.6	22.6	266
22.6	22.6	232
22.6	22.7	185
22.7	22.7	102
22.7	22.8	431
22.8	22.9	293
22.9	22.9	107
22.9	22.9	301
22.9	23.0	432
23.0	23.0	121
23.0	23.1	158
23.1	23.2	396
23.2	23.3	522
23.3	23.3	409
23.3	23.4	177

APPENDIX G – AREAS OF SHALLOW DEPTH TO BEDROCK CROSSED
BY THE LEACH XPRESS PROJECT

APPENDIX G Areas of Shallow Depth to Bedrock Crossed by the Leach XPress Project ^a		
Approximate Start (MP)	Approximate End (MP)	Length Crossed by Centerline (feet)
23.4	23.4	454
23.4	23.6	739
23.6	23.6	150
23.6	23.9	1,740
23.9	24.0	98
24.0	24.0	364
24.0	24.2	647
24.2	24.2	50
<i>Approximate Percent of Pipeline Crossing Length</i>		6%
BM-111 Loop		
Wayne County, WV		
0.7	0.8	115
0.8	0.8	181
0.8	1.1	1,115
1.1	1.3	1,086
1.3	1.3	415
1.3	1.4	503
1.4	1.5	87
1.5	1.5	144
1.5	1.6	427
1.6	1.7	480
1.7	1.8	426
1.8	2.1	1,413
2.1	2.1	190
2.1	2.2	553
2.3	2.3	294
2.3	2.4	200
<i>Approximate Percent of Pipeline Crossing Length</i>		0.9%
^a Soils with shallow depth to bedrock are considered to be those with consolidated rock 60 inches or less from the surface, which represents areas that have potential to introduce rock to topsoil.		

