Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 1

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	22																	
2.6	47	A-6(13)	ML	40	28	12	1.55			0.7	7.8	92	-200	-200	-200	-200	-200	0.5
5	35	A-4(0)	ML	np	np	NP				0	43	57	-200	-200	-200	0.003	0.006	0.079
7.5	33																	
8.4	15																	
10	9																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 2

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	19																	
3	3																	
5	6	A-1-b(0)	GC-GM	26	20	6	-2.4			56	28	16	-200	0.013	0.301	0.471	0.922	1.5
5	6	A-1-b(0)	GC-GM	26	20	6	-2.4			56	28	16	-200	0.013	0.301	0.471	0.922	1.5
7.5	10																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 3

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	1																	
5	1																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 4

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	2																	
5	2																	
6.5	1																	
10	3																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 5

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	12	A-4(0)	SM	np	np	NP				0	64	36	-200	-200	0.005	0.006	0.013	0.375
5	4																	
7.5	3																	
10	6																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 6

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	25																	
3.5	14																	
5	3																	
7.5	1																	
10	6																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 7

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	16	A-4(0)	ML	NP	NP	NP				0	46	54	-200	-200	-200	0.004	0.007	0.375
5	2																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 7A

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	13																	
5	3																	
7.5	3																	
10	6																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 8

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	5																	
2.5	13																	
5	17																	
7.5	20	A-4(0)	SM	NP	NP	NP				0.2	61	39	-200	-200	0.004	0.005	0.007	0.375
8.3	1																	
10	6																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 9

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	6	A-1-b(0)	SM	np	np	NP				38	49	14	-200	0.008	0.063	0.162	0.921	1.5
7.5	6																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 10

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	4																	
2.5	10	A-2-4(0)	SM	NP	NP	NP				0.1	70	30	-200	0.003	0.004	0.005	0.009	0.375
5	15																	
7.5	28																	
8.1	5																	
15	10																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 11

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	5																	
0.5	7																	
2.5	9																	
5	25																	
5.5	10	A-4(0)	SM	23	20	3	-3.4			0.6	59	41	-200	-200	0.004	0.005	0.012	0.375
6.1	1																	
7.5	5	A-1-a(0)	GP-C	24	20	4	-3.7			71	19	11	-200	0.2	0.784	1.076	1.792	2.5
7.5	5	A-1-a(0)	GP-C	24	20	4	-3.7			71	19	11	-200	0.2	0.784	1.076	1.792	2.5
10	8																	
12.5		A-1-b(0)	SP	NP	NP	NP				4.2	94	2	-200	0.014	0.03	0.042	0.07	0.5

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 12

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	4																	
2.5	12	A-2-4(0)	SM	NP	NP	NP				0.6	76	23	-200	0.004	0.005	0.006	0.013	0.375
5	18																	
7.5	43																	
8.9	19																	
10.5	10																	
12.5	11																	
15	12																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 13

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	10																	
0.4	2																	
2.5	1																	
5	3	A-2-7()	GW	NP				17.82	2.94	79	16	5	0.041	0.294	0.566	0.725	1.421	2.5
5	3	A-2-7()	GW	NP				17.82	2.94	79	16	5	0.041	0.294	0.566	0.725	1.421	2.5
7.5	5																	
10	12																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 14

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	4																	
2.4	1																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 15

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	3	A-1-a(0)	GP-GM	NP	NP	NP				73	22	5	-200	0.211	0.4	0.499	0.867	2.5
2.5	3	A-1-a(0)	GP-GM	NP	NP	NP				73	22	5	-200	0.211	0.4	0.499	0.867	2.5
5	6																	
7.5	9																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 16

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	15																	
2.5	3																	
5	4																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 17

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	15																	
2.5	5																	
5	3																	
7.5	9																	
10	12																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 18

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	19	A-4(5)	CL	33	23	10	-0.4			0	35	65	-200	-200	-200	-200	0.009	0.187
5																		
7.5																		
10																		

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 19

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	29																	
5																		
7.5																		
10																		

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 20

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
0	23	A-2-4(0)	SM	NP	NP	NP				12	58	29	-200	0.003	0.006	0.01	0.089	1
2.5	23																	
5	10																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 21

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	11																	
5	11																	
7.5																		
10																		

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 23

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	21																	
5	10																	
2.51		A-1-b(0)	GM	np	np	NP				44	42	14	-200	0.016	0.126	0.241	0.704	1.5

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 24

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	32																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 25

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	18																	
3.5																		
10	23																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 26

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	15	A-2-6()	GP-G	nt	nt					71	22	7	-200	0.199	0.641	0.779	0.954	1.5
3	34																	
5	14																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 27

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	2																	
5	6																	
7.5	13																	
10	14																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 28

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	18	A-4(1)	ML	28	24	4	-1.6			0	36	64	-200	-200	-200	-200	0.006	0.375
5	6																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 29

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	19	A-6(9)	CL	35	20	15	-0.1			0	30	70	-200	-200	-200	-200	0.006	0.187
5	18																	
5.5	5																	
7.5	7																	
10	6																	

Montana Department of Transportation - Soil Index Property Summary

Project Name: Livingston-South
Project Number: NH 11-1(84)50

UPN: 8790000
Geotech: N. Jaynes

Boring Number: 30

													Grain Size (in)					
D (ft)	m%	AASHTO	USCS	LL	PL	PI	LI	Cu	Cc	%G	%S	%F	D_{10}	D_{30}	D_{50}	D_{60}	D_{85}	D_{100}
2.5	19																	
3.5	8																	
5	5																	
7.5	8																	
10	9																	