

## XII: Supplemental Material

### Grain Size Analysis Template

Project: Breckenridge Shelter  
 Sample: STP-1 0-15cm 1  
 Sample Location and Depth: STP-1 0-15cm 1

Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	34L	72.5372	51.037	21.5002
Gravel	52	35.7535	30.1633	5.5902
Very Coarse Sand	43	31.871	29.7123	2.1587
Coarse Sand	10	31.2615	29.6837	1.5778
Medium Sand	28	29.2402	27.8414	1.3988
Fine Sand	20	29.5851	28.3454	1.2397
Very Fine Sand	35	30.9829	29.7385	1.2444

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	13	30.5115	30.2832	0.2283	0.0404	0.1879	7.516
Medium, Fine Silt and Clay	14	30.0397	29.9133	0.1064	0.0404	0.066	2.64
Fine Silt and Clay	15	29.6815	29.6488	0.0347	0.0404	-0.0057	0
Clay	16	29.3671	29.3512	0.0159	0.0404	-0.0245	0

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt
Total Silt and Clay	4.876
Medium and Fine Silt and Clay	2.64
Medium and Fine Silt and Clay - Fine Silt and Clay	0
Fine Silt and Clay	2.64
Clay	0
Fine Silt and Clay - Clay	0

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight	15.1054	15.1054
Weight Gravel	5.5902	7.5894	0	20.6956	NA	NA	15.1054
NA	7.5894	7.516	0	NA	NA	NA	NA
NA	7.5894	7.516	NA	NA	NA	NA	15.1054

% Error	Recovered Total Weight	Lost/Gained	% Original Total Weight	% Lost Gained
Weight % Size Fractions	21.5002	20.6956	0.8046	3.72230769

Fraction	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel/Fine/2mm Recovered	x100-% Fraction	Gravel and Clay Free/0.002-2mm Recovered	x100 - % Fraction
Gravel	5.5902	20.6956	27.01153868	NA	NA	NA	NA
Very Coarse Sand	2.1587	NA	NA	0.142909158	14	0.142909158	14
Coarse Sand	1.5778	NA	NA	0.104452712	10	0.104452712	10
Medium Sand	1.3988	NA	NA	0.090616601	9	0.090616601	9
Fine Sand	1.2397	NA	NA	0.082069988	8	0.082069988	8
Very Fine Sand	1.2444	NA	NA	0.082381135	8	0.082381135	8
Coarse Silt	4.876	NA	NA	0.322788469	32	0.322788469	32
Medium Silt	2.64	NA	NA	0.174771936	17	0.174771936	17
Fine Silt	0	NA	NA	0	0	0	0
Clay	0	NA	NA	0	0	0	0
Total	NA	NA	NA	98	98	NA	98

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: SPT 1/L2 15-45cm 2  
 Sample Location and Depth: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	86L	70.9850	50.2008	20.7842
Gravel	47s	36.6169	29.5943	7.0226
Very Coarse Sand	60s	28.8929	28.1226	0.7703
Coarse Sand	75s	30.1108	29.4970	0.6138
Medium Sand	88s	32.3005	31.5340	0.7665
Fine Sand	96s	31.5922	30.8600	0.7300
Very Fine Sand	126s	30.1938	29.8979	0.2959

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	17s	29.5293	29.7491	0.2202	0.0404	0.2598	40	9.592
Medium, Fine Silt and Clay	18s	29.6967	29.5262	0.1705	0.0404	0.1301	40	5.204
Fine Silt and Clay	19s	29.9689	29.9070	0.0619	0.0404	0.0215	40	0.8600
Clay	21s	29.6060	29.5689	0.0371	0.0404	-0.0333	40	0

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt	Weight Medium Silt	Weight Fine Silt	Weight Clay
Total Silt and Clay	9.592	5.204	0.86	4.344
Medium and Fine Silt and Clay		4.388		
Fine Silt and Clay			0.86	
Clay				0
Clay				0.86

Recovered Weight of Sample	Weight Total Sand	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.0075mm Recovered Weight
Weight Gravel	7.0226	3.7469	6.192	0	20.3633	NA
NA	3.7467	9.192	0	0	NA	NA
NA	3.7487	9.192	0	0	NA	13.3407
NA	3.7487	9.192	0	0	NA	13.3407

% Error	Original Total Weight	Recovered Total Weight	Loss/Gained	% Lost/Gained
	20.7842	20.3633	0.4209	2.025095986

Fraction	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered * 100%	Gravel Free / <2mm Recovered * 100%	Gravel Free / <2mm Recovered * 100% - % Fraction
Gravel	7.0226	20.3633	34.48855179	NA	NA
Very Coarse Sand	0.7703	NA	0.057740598	6	0.057740598
Coarse Sand	0.6138	NA	0.04600958	5	0.04600958
Medium Sand	0.7665	NA	0.057455756	6	0.057455756
Fine Sand	0.7300	NA	0.06559041	6	0.06559041
Very Fine Sand	0.2959	NA	0.00550041	6	0.00550041
Coarse Silt	4.388	NA	0.328918273	33	0.328918273
Medium Silt	4.344	NA	0.325620095	33	0.325620095
Fine Silt	0.86	NA	0.064464383	6	0.064464383
Clay	0	NA	0	0	0
Total	NA	NA	NA	101	NA

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP-2/L1  
 Sample Location and Depth: 3

Weight Calton: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	84L	72.4157	50.4011	22.0146
Gravel	102s	31.9244	28.8914	3.5330
Very Coarse Sand	106s	30.3029	29.3006	0.9723
Coarse Sand	103s	30.3557	29.5270	0.8287
Medium Sand	97s	29.0130	28.9327	0.6883
Fine Sand	101s	32.8932	32.1910	0.7022
Very Fine Sand	105s	30.0973	29.4218	0.6755

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calton	Weight Calton	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	23s	32.0811	31.6902	0.3909	0.0404	0.3505	40	14.0200
Medium, Fine Silt and Clay	24s	28.8404	28.6201	0.2203	0.0404	0.1799	40	7.1960
Fine Silt and Clay	25s	29.6173	29.5696	0.0477	0.0404	0.0073	40	0.292
Clay	27s	29.4110	29.3883	0.0227	0.0404	-0.0177	40	0

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt
Total Silt and Clay	7.196
Medium and Fine Silt and Clay	6.824
Medium and Fine Silt and Clay	Weight Medium Silt
Fine Silt and Clay	0.372
Fine Silt and Clay	Weight Fine Silt
Clay	6.904
Clay	Weight Fine Silt
Clay	0
Clay	0.292

Recovered Weight of Sample	Weight Total Sand	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	3.533	3.607	14.02	21.36	21.36	NA
NA	3.607	14.02	NA	0	NA	NA
NA	3.607	14.02	NA	0	NA	17.827
NA	3.607	14.02	NA	0	NA	17.827

% Error	Recovered Total Weight	Original Total Weight	% Lost/Gained
Original Total Weight	22.0146	21.36	0.6546
Recovered Total Weight	22.0146	21.36	2.973481235

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel/Fine/2mm Recovered	x100-% Fraction	Gravel and Clay Fine/0.002-2mm Rec x100- % Fraction
Gravel	3.533	21.36	16.54026217	NA	NA	NA
Very Coarse Sand	0.9723	NA	0.054540865	5	0.054540865	5
Coarse Sand	0.8287	NA	0.046485668	5	0.046485668	5
Medium Sand	0.6883	NA	0.038161216	4	0.038161216	4
Very Fine Sand	0.7022	NA	0.035698727	4	0.035698727	4
Coarse Silt	6.824	NA	0.382799015	38	0.382799015	38
Medium Silt	6.904	NA	0.38727725	39	0.38727725	39
Fine Silt	0.292	NA	0.016379649	2	0.016379649	2
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	101	NA	101

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP2/L2  
 Sample Location and Depth: 4

Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	38L	70.5713	48.6015	20.9698
Gravel	100s	34.4786	28.3591	6.1195
Very Coarse Sand	30/4s	31.8952	30.0674	1.8278
Coarse Sand	30/7s	30.8776	29.5057	1.3719
Medium Sand	30/8s	29.9362	29.5825	0.3537
Fine Sand	116s	31.7262	31.3763	0.3499
Very Fine Sand	112s	29.8684	29.5213	0.3351

Size Fraction	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40
Total Silt and Clay	20s	30.2356	29.9397	0.2959	0.0404	0.2555	10.2200
Medium Fine Silt and Clay	30s	29.8399	29.6570	0.1829	0.0404	0.1425	5.7000
Fine Silt and Clay	31s	28.3089	28.2527	0.0562	0.0404	0.0158	0.6320
Clay	33s	29.4106	28.3792	0.0314	0.0404	-0.009	0

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt
Total Silt and Clay	4.52
Medium and Fine Silt and Clay	5.7
Medium and Fine Silt and Clay	Weight Medium Silt
Fine Silt and Clay	5.7
Fine Silt and Clay	Weight Fine Silt
Fine Silt and Clay	0.632
Fine Silt and Clay	0

Recovered Weight of Sample	Weight Total Sand	Weight Clay	Total Recovered Weight	0.002-2mm Recovered Weight
6.1195	10.22	20.5579	20.5579	NA
NA	4.2184	0.0000	0.0000	NA
NA	4.2184	0.0000	0.0000	14.6384
NA	4.2184	0.0000	0.0000	NA

% Error	Recovered Total Weight	Original Total Weight	% Lost/Gained
0.0000	20.5579	20.9698	1.984233355

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Free/2mm Recovered	x100-% Fraction	Gravel and Clay Free/0.0002-2mm Rec x100-% Fraction
Gravel	6.1195	20.5579	29.76714548	NA	NA	NA
Very Coarse Sand	1.8278	NA	0.12659274	13	0.12659274	13
Coarse Sand	1.3719	NA	0.095017453	10	0.095017453	10
Medium Sand	0.3337	NA	0.023111979	2	0.023111979	2
Fine Sand	0.3499	NA	0.024233987	2	0.024233987	2
Very Fine Sand	0.3351	NA	0.023208943	2	0.023208943	2
Medium Sand	0.3499	NA	0.024233987	2	0.024233987	2
Very Fine Sand	0.3351	NA	0.023208943	2	0.023208943	2
Medium Silt	5.068	NA	0.351084822	35	0.351084822	35
Fine Silt	0.632	NA	0.043772163	4	0.043772163	4
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	99	NA	99

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP2/L3  
 Sample Location and Depth: 5

Weight Cation: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	77L	71.2207	50.531	20.6897
Gravel	1115	30.8062	29.8585	0.9477
Very Coarse Sand	1094	30.2078	29.4591	0.7487
Coarse Sand	1094	28.8052	28.4257	0.3795
Medium Sand	1355	28.7385	28.4213	0.3172
Fine Sand	1345	29.8997	29.4386	0.4611
Very Fine Sand	1335	29.9105	29.4237	0.4868

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Cation	Weight Cation	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	636	28.8253	28.5506	0.4747	0.0404	0.4343	40	17.3720
Medium, Fine Silt and Clay	208	28.8794	28.3454	0.3340	0.0404	0.2936	40	11.7440
Fine Silt and Clay	1075	29.6670	29.057	0.1613	0.0404	0.1209	40	4.8360
Clay	608	28.2315	28.1226	0.1089	0.0404	0.0685	40	2.7400

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Course Silt
Total Silt and Clay	11.744
Medium and Fine Silt and Clay	5.628
Medium and Fine Silt and Clay	6.908
Fine Silt and Clay	4.836
Clay	2.74

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	0.9477	2.0833	34.632	20.403	NA
NA	2.0833	14.632	2.7400	NA	NA
NA	2.0833	14.632	2.7400	NA	19.4533
% Error					
Original Total Weight	20.6897	20.403	20.6897	1.385713654	36.7153

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Free/2mm Recovered	x100-% Fraction	Gravel and Clay Free/0.002-2mm Rec x100-% Fraction
Gravel	0.9477	20.403	4.644905161	NA	NA	NA
Very Coarse Sand	0.7487	NA	0.038483887	4	0.044791299	4
Coarse Sand	0.3795	NA	0.019506253	2	0.02270375	2
Medium Sand	0.3172	NA	0.016304041	2	0.018976666	2
Fine Sand	0.3511	NA	0.018046996	2	0.021004708	2
Very Fine Sand	0.4611	NA	0.1599285	29	0.1869737	29
Coarse Silt	5.628	NA	0.2892785	36	0.336692517	36
Medium Silt	6.908	NA	0.355070541	36	0.413274066	41
Fine Silt	2.096	NA	0.107734139	11	0.1252941	13
Clay	2.74	NA	0.140835659	14	NA	NA
Total	NA	NA	NA	101	NA	100

**Grain Size Analysis Template**

Project: Breckridge Shelter  
 Sample: STP2/L2 (ONLY SAMPLE)  
 Sample Location and Depth: 6

Weight Calton: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	12L	71.5066	51.1294	20.3772
Gravel	1176	34.6423	32.3603	2.2820
Very Coarse Sand	1196	31.0700	29.8087	1.2613
Coarse Sand	1206	29.0749	28.3961	0.6788
Medium Sand	615	30.5570	29.6274	0.9296
Fine Sand	625	31.1665	30.2172	0.9493
Very Fine Sand	635	28.6865	28.5506	0.1359

Size Fraction	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calton	Weight Calton	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	1156	38.7961	38.4213	0.3748	0.0404	0.3344	0.1344	13.7460
Medium Fine Silt and Clay	1196	30.0278	29.8087	0.2191	0.0404	0.1787	0.1787	7.1480
Medium Coarse Silt and Clay	885	31.5688	31.5340	0.0528	0.0404	0.0124	0.0124	0.4960
Fine Silt and Clay	355	29.7592	29.7385	0.0207	0.0404	-0.0197	-0.0197	0

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt
Total Silt and Clay	7.148
Medium and Fine Silt and Clay	6.228
Medium and Fine Silt and Clay	Weight Medium Silt
Fine Silt and Clay	0.496
Fine Silt and Clay	Weight Fine Silt
Fine Silt and Clay	0
Fine Silt and Clay	0.496

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight	Weight Sample
Weight Gravel	2.2820	4.1549	13.376	19.8129	NA	NA
NA	4.1549	13.376	0.0000	0.0000	17.5309	NA
NA	4.1549	25.276	NA	NA	17.5309	17.5309

% Error	Recovered Total Weight	Lost/Gained	/Original Total Weight	% Lost/Gained
Original Total Weight	20.3772	19.8129	0.5643	-2.76921539
Weight % Size Fractions				

Fraction	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Free/2mm Recovered	x100-% Fraction	Gravel and Clay Free/0.002-2mm Rec x100-% Fraction
Gravel	2.282	19.8129	11.51774854	NA	NA	NA
Very Coarse Sand	1.2613	NA	0.071947247	7	0.071947247	7
Coarse Sand	0.6788	NA	0.038720203	4	0.038720203	4
Medium Sand	0.9396	NA	0.05026371	5	0.05026371	5
Fine Sand	0.9493	NA	0.05413001	5	0.05413001	5
Very Fine Sand	0.6728	NA	0.35218439	36	0.35218439	36
Medium Silt	6.652	NA	0.379444296	38	0.379444296	38
Fine Silt	0.496	NA	0.0282929	3	0.0282929	3
Clay	0	NA	0	0	0	0
Total	NA	NA	100	NA	100	100

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP4/L3 (ONLY SAMPLE, LOWEST LEVEL)  
 Sample Location and Depth: 7

Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	40L	67.4129	463.3442	21.0787
Gravel	645	34.5915	31.8829	3.1086
Very Coarse Sand	655	30.7311	28.3398	2.3913
Coarse Sand	665	30.6382	29.3252	1.3130
Medium Sand	675	30.4344	29.3426	1.0918
Fine Sand	685	30.3657	29.8486	0.7151
Very Fine Sand	695	30.2872	29.8026	0.4729

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	102s	28.7111	28.3914	0.3197	0.0404	0.2793	40	11.1720
Medium, Fine Silt and Clay	113s	29.7836	29.6337	0.1599	0.0404	0.1195	40	4.7800
Fine Silt and Clay	97s	28.3844	28.3327	0.0517	0.0404	0.0113	40	0.4520
Clay	104s	30.0963	30.0674	0.0289	0.0404	-0.0115	40	0

Weight of Individual Silt and Clay Fractions by Subtraction

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt
Total Silt and Clay	11.172
Medium and Fine Silt and Clay	4.78
Medium and Fine Silt and Clay	6.392
Fine Silt and Clay	4.328
Clay	0.452
Weight Fine Silt	0
Weight Fine Silt	0.452

Recovered Weight of Sample	Weight Total Sand	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	3.1086	11.172	0.0000	20.2694	NA
NA	5.9888	0.0000	0.0000	NA	17.6608
NA	11.172	0.0000	NA	NA	17.6608
% Error					
Original Total Weight	21.0787	Loss/Gained	Loss/Gained	% Lost/Gained	
		20.2694	0.8093	21.0787	3.839420837

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Fine/<2mm Recovered	x100-% Fraction	Gravel and Clay Fine/0.002-2mm Rec x100 -% Fraction
Gravel	3.1086	20.2694	15.3364844	NA	NA	NA
Very Coarse Sand	2.3913	NA	0.139346651	14	0.139346651	14
Coarse Sand	1.3133	NA	0.076511585	8	0.076511585	8
Medium Sand	1.0918	NA	0.053621743	6	0.053621743	6
Fine Sand	0.7151	NA	0.041070551	4	0.041070551	4
Very Fine Sand	0.4729	NA	0.023276688	3	0.023276688	3
Coarse Silt	4.328	NA	0.252702695	37	0.252702695	37
Medium Silt	0.452	NA	0.026339098	3	0.026339098	3
Fine Silt	0	NA	0	0	0	0
Clay	0	NA	0	0	0	0
TOTAL	NA	NA	100	NA	NA	100

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP-9/L1 0-20cm (ONLY SAMPLE)  
 Sample Location and Depth: 8

Weight Calton: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	72L	73.7265	51.3485	22.3780
Gravel	70s	35.5368	6.3103	6.3103
Very Coarse Sand	71s	30.5595	29.3714	1.1881
Coarse Sand	72s	29.9482	29.3628	0.5854
Medium Sand	86s	28.7109	28.6972	0.4497
Fine Sand	89s	20.252	20.2626	0.4426
Very Fine Sand	90s	29.8314	29.8146	0.4153

Weight of Individual Silt and Clay Fractions by Subtraction	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calton	Weight Calton	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	62s	29.9717	29.6274	0.3443	0.0404	0.3039	40	12.1560
Medium, Fine Silt and Clay	117s	32.4977	32.4603	0.1314	0.0404	0.0910	40	3.6400
Fine Silt and Clay	28s	27.8723	27.8414	0.0309	0.0404	-0.0095	40	0.0000
Clay	103s	29.5426	29.527	0.0156	0.0404	-0.0248	40	0.0000

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	-2 mm Recovered Weight	0.002-2mm Recovered Weight
6.3103	12.156	0.0000	21.5489	NA	NA
NA	3.0826	0.0000	0.0000	15.2366	NA
NA	3.0826	0.0000	0.0000	NA	15.2366

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Free/2-mm Recovered	x100-% Fraction	Gravel and Clay Free/0.002-2mm Rec x100-% Fraction
Gravel	6.3103	21.5489	29.28362933	NA	NA	NA
Very Coarse Sand	1.1881	NA	0.07796648	8	0.07796648	8
Coarse Sand	0.5854	NA	0.038415602	4	0.038415602	4
Medium Sand	0.4497	NA	0.029510585	3	0.029510585	3
Fine Sand	0.4426	NA	0.029044663	3	0.029044663	3
Very Fine Sand	0.4153	NA	0.027393584	3	0.027393584	3
Coarse Silt	0.3039	NA	0.03867888	5	0.03867888	5
Medium Silt	3.64	NA	0.238667888	24	0.238667888	24
Fine Silt	0	NA	0	0	0	0
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	101	NA	101

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Free/2-mm Recovered	x100-% Fraction	Gravel and Clay Free/0.002-2mm Rec x100-% Fraction
Gravel	6.3103	21.5489	29.28362933	NA	NA	NA
Very Coarse Sand	1.1881	NA	0.07796648	8	0.07796648	8
Coarse Sand	0.5854	NA	0.038415602	4	0.038415602	4
Medium Sand	0.4497	NA	0.029510585	3	0.029510585	3
Fine Sand	0.4426	NA	0.029044663	3	0.029044663	3
Very Fine Sand	0.4153	NA	0.027393584	3	0.027393584	3
Coarse Silt	0.3039	NA	0.03867888	5	0.03867888	5
Medium Silt	3.64	NA	0.238667888	24	0.238667888	24
Fine Silt	0	NA	0	0	0	0
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	101	NA	101



**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP10/L1 (ONLY SAMPLE)  
 Sample Location and Depth: 9

Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	37L	72.5438	50.3064	22.6374
Gravel	525	35.9974	30.346	5.6514
Very Coarse Sand	535	29.1172	28.3116	0.8056
Coarse Sand	545	29.5584	29.4526	0.5058
Medium Sand	565	29.8953	29.3789	0.5164
Fine Sand	2215	30.7350	30.2289	0.5061
Very Fine Sand	2305	29.8283	29.8286	0.2187

Size Fraction	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	105	28.8006	28.8257	0.3749	0.0404	0.3345	40	13.3800
Medium, Fine Silt and Clay	1325	29.9324	29.9694	0.1630	0.0404	0.1226	40	4.9040
Fine Silt and Clay	1015	32.2362	32.1910	0.0452	0.0404	0.0048	40	0.1920
Clay	105	29.7046	29.6837	0.0209	0.0404	-0.0195	40	0

**Weight of Individual Silt and Clay Fractions by Subtraction**

Size Fraction	Weight
Medium and Fine Silt and Clay	4.904
Weight Coarse Silt	8.476
Medium and Fine Silt and Clay	4.904
Weight Medium Silt	4.712
Fine Silt and Clay	0.192
Weight Fine Silt	0

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	-2 mm Recovered Weight	0.002-2mm Recovered Weight
5.6514	13.38	2.8536	21.885	21.885	NA
NA	13.38	2.8536	0.0000	16.3309	NA
NA	13.38	2.8536	0.0000	NA	16.2356

% Error	Original Total Weight	Recovered Total Weight	Lost/Gained	/Original Total Weight	% Lost/Gained
	22.6374	21.885	0.7524	3.32703252	

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel/Fine/2mm Recovered	x100-% Fraction	Gravel and Clay Fine/0.002-2mm Rec x100-% Fraction
Gravel	5.6514	21.885	25.82316655	NA	NA	NA
Very Coarse Sand	0.8056	NA	0.049625468	5	0.049625468	5
Coarse Sand	0.5058	NA	0.031157599	3	0.031157599	3
Medium Sand	0.5164	NA	0.031810566	3	0.031810566	3
Fine Sand	0.5091	NA	0.03160881	3	0.03160881	3
Very Fine Sand	0.2187	NA	0.012926949	52	0.012926949	52
Clay	8.476	NA	0.523226847	29	0.523226847	29
Medium Silt	4.712	NA	0.290262172	1	0.290262172	1
Fine Silt	0.192	NA	0.011827321	0	0.011827321	0
Clay	0	NA	NA	99	NA	99
Total	NA	NA	NA	NA	NA	NA

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP11 (ONLY SAMPLE)  
 Sample Location and Depth: 10

Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	1L	71.5731	50.5495	21.0236
Gravel	1338	37.5754	29.3568	8.2186
Very Coarse Sand	1336	31.6663	28.5811	3.0852
Coarse Sand	1376	29.8965	28.5420	1.3545
Medium Sand	1398	30.1164	29.1778	0.9386
Fine Sand	1426	29.2788	28.9455	0.3333
Very Fine Sand	1435	29.7352	29.5355	0.2777

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	52z	30.3532	30.1633	0.1899	0.0404	0.1465	40	5.9800
Medium, Fine Silt and Clay	116z	31.4895	31.3763	0.1942	0.0404	0.0638	40	2.5200
Fine Silt and Clay	61s	29.6469	29.6274	0.0195	0.0404	-0.0209	40	0.0000
Clay	108z	29.5841	29.5825	0.0016	0.0404	-0.0388	40	0.0000

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt
Total Silt and Clay	3.428
Medium and Fine Silt and Clay	2.552
Weight Medium Silt	0
Weight Fine Silt	2.552
Clay	0
Weight Fine Silt	0

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.0075-2mm Recovered Weight
Weight Gravel	5.98	20.1899	26.1699	20.1899	NA
NA	5.9913	0.0000	0.0000	NA	11.9713
NA	5.9913	0.0000	0.0000	NA	11.9713
NA	5.9913	0.0000	0.0000	NA	11.9713

% Error	Recovered Total Weight	Lost/Gained	% Lost/Gained
Original Total Weight	21.0236	21.0236	3.965543484

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x100%	Gravel/Fine/2mm Recovered	x100-% Fraction	Gravel and Clay Fine/0.0002-2mm Rec	x100-% Fraction
Gravel	8.2186	20.1899	40.70649386	NA	NA	0.257716372	26
Very Coarse Sand	3.0652	NA	0.13345607	NA	11	0.11345607	11
Coarse Sand	1.3545	NA	0.078404183	NA	8	0.078404183	8
Medium Sand	0.9386	NA	0.038089524	NA	3	0.038089524	3
Fine Sand	0.3333	NA	0.013776514	NA	2	0.013776514	2
Very Fine Sand	0.2777	NA	0.011521524	NA	2	0.011521524	2
Coarse Silt	3.428	NA	0.286351524	NA	26	0.286351524	26
Medium Silt	2.552	NA	0.213176514	NA	21	0.213176514	21
Fine Silt	0	NA	0	NA	0	0	0
Clay	0	NA	0	NA	0	0	0
Total	NA	NA	NA	NA	100	NA	100

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP5/L2  
 Sample Location and Depth: 11  
 Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample	Weight 100% Sample
Total	1L	74.8117	50.5495	24.2622	6.5520
Gravel	975	36.3318	28.3327	7.9991	2.7120
Very Coarse Sand	1005	31.6597	28.3591	3.3006	0.0000
Coarse Sand	1015	34.6510	32.1910	2.4600	0.0000
Medium Sand	1025	29.7560	28.3914	1.3646	0.0000
Fine Sand	1035	30.3940	29.5270	0.8670	0.0000
Very Fine Sand	1045	30.2653	29.0674	0.3979	0.0000

  

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	135	30.4674	30.2832	0.2042	0.0404	0.1638	40	6.5520
Medium, Fine Silt and Clay	145	30.0215	29.9133	0.1082	0.0404	0.0678	40	2.7120
Fine Silt and Clay	155	29.6646	29.6468	0.0178	0.0404	-0.0226	40	0.0000
Clay	165	29.3573	29.3512	0.0061	0.0404	-0.0343	40	0.0000

Weight of Individual Silt and Clay Fractions by Subtraction

Weight Total Silt	Weight Coarse Silt	Weight Medium Silt	Weight Fine Silt
6.552	3.84	2.712	0
2.712	0	2.712	0
0	0	0	0

Recovered Weight of Sample	Weight Total Sand	Weight Clay	Total Recovered Weight	-2 mm Recovered Weight	0.002-2mm Recovered Weight
7.9991	8.4731	6.552	23.0242	NA	NA
NA	6.7931	6.552	13.3462	NA	NA
NA	8.4723	6.552	25.0242	NA	15.0251

% Error	Recovered Total Weight	Lost/Gained	Original Total Weight	% Lost/Gained
0.0000	23.0242	1.238	24.2622	5.10257564

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Free/2mm Recovered	x100-% Fraction	Gravel and Clay Free/0.002-2mm Rec x100 - % Fraction
Gravel	7.9991	23.0242	34.74214088	NA	NA	NA
Very Coarse Sand	3.3006	NA	0.219572415	22	0.219572415	22
Coarse Sand	2.46	NA	0.163726032	16	0.163726032	16
Medium Sand	1.3646	NA	0.098821359	9	0.098821359	9
Fine Sand	0.867	NA	0.05372337	6	0.05372337	6
Very Fine Sand	0.3979	NA	0.02572442	3	0.02572442	3
Coarse Silt	3.84	NA	0.235523242	26	0.235523242	26
Medium Silt	2.712	NA	0.180497967	18	0.180497967	18
Fine Silt	0	NA	0	0	0	0
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	100	NA	100

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP5/L3  
 Sample Location and Depth: 12  
 Weight Caliper: 0.0101

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	2L	75.1932	50.4090	24.7842
Gravel	1055	35.5593	29.4418	6.1175
Very Coarse Sand	1065	33.0567	29.3866	3.7501
Coarse Sand	1075	31.9423	29.5057	2.4366
Medium Sand	1086	31.0375	29.5825	1.4550
Fine Sand	613	30.4759	29.6274	0.8485
Very Fine Sand	625	30.1741	29.1772	0.9969

Size Fraction	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	175	29.6905	29.2491	0.2504	0.0404	0.21	0.21	8.4000
Medium Fine Silt and Clay	186	29.6458	29.5262	0.1196	0.0404	0.0792	0.0792	3.1680
Fine Silt and Clay	196	29.9226	29.9070	0.0156	0.0404	-0.0248	-0.0248	0.0000
Clay	206	28.3518	28.3454	0.0064	0.0404	-0.034	-0.034	0.0000

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt	Weight Medium Silt	Weight Fine Silt
Total Silt and Clay	8.4	3.168	5.232
Medium and Fine Silt and Clay	0	3.168	3.168
Fine Silt and Clay	0	0	0

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	6.1575	8.4	14.5575	23.5766	NA
NA	0.0191	8.4	0.0000	NA	NA
NA	2.9131	8.4	0.0000	17.4191	NA
% Error					17.4191
Original Total Weight	24.7842	Loss/Gained	1.2076	% Lost Gained	-4.872459067

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel/Fine/2mm Recovered	x100-% Fraction	Gravel and Clay Freq/0.002-2mm Rec x100 - % Fraction
Gravel	6.1575	23.5766	26.1699736	NA	NA	NA
Very Coarse Sand	3.7501	NA	0.215286468	22	0.215286468	22
Coarse Sand	2.4366	NA	0.139880935	14	0.139880935	14
Medium Sand	1.455	NA	0.083529	8	0.083529	8
Fine Sand	0.8485	NA	0.048710888	5	0.048710888	5
Very Fine Sand	0.9969	NA	0.059962	3	0.059962	3
Coarse Silt	12.2322	NA	0.30835826	30	0.30835826	30
Medium Silt	3.168	NA	0.181869327	18	0.181869327	18
Fine Silt	0	NA	0	0	0	0
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	100	NA	100

**Grain Size Analysis Template**

Project: Breckridge Shelter  
 Sample: STP-6/L1-27  
 Sample Location and Depth: 13

Weight Calibr.: 0.0004

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	3L	74.7856	50.7120	24.0736
Gravel	635	38.1848	28.3506	9.8342
Very Coarse Sand	645	34.9059	31.8829	3.0230
Coarse Sand	655	29.7272	28.3398	1.3874
Medium Sand	665	30.0967	29.3252	0.7715
Fine Sand	675	29.9509	29.2426	0.6083
Very fine Sand	685	30.2282	29.2486	0.9834

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	215	29.7804	29.5689	0.2115	0.0404	0.1711	40	6.8440
Medium Fine Silt and Clay	235	31.7936	31.6902	0.1034	0.0404	0.0650	40	2.5200
Fine Silt and Clay	245	28.6360	28.6201	0.0159	0.0404	-0.0245	40	0.0000
Clay	255	29.5710	29.5595	0.0014	0.0404	-0.039	40	0

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt
Total Silt and Clay	6.844
Medium and Fine Silt and Clay	2.52
Medium and Fine Silt and Clay	4.324
Fine Silt and Clay	0
Fine Silt and Clay	2.52
Clay	0
Weight Fine Silt	0

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	6.2036	6.844	0.0000	22.8818	NA
NA	6.2036	6.844	0.0000	13.0476	NA
NA	6.2036	6.844	NA	NA	13.0476

% Error	Recovered Total Weight	Lost/Gained	% Lost/Gained
Original Total Weight	24.0736	1.1918	24.0736
Recovered Total Weight	22.8818	4.950651336	4.950651336

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Fines/2mm Recovered	x100-% Fraction	Gravel and Clay Fines/0.002-2mm Rec x100 - % Fraction
Gravel	9.8342	22.8818	42.978622	NA	NA	NA
Very Coarse Sand	3.023	NA	0.231690119	23	0.231690119	23
Coarse Sand	1.3874	NA	0.106333732	11	0.106333732	11
Medium Sand	0.7715	NA	0.059129648	6	0.059129648	6
Fine Sand	0.6083	NA	0.046621601	5	0.046621601	5
Coarse Silt	4.324	NA	0.034523882	3	0.034523882	3
Medium Silt	2.52	NA	0.331401944	33	0.331401944	33
Fine Silt	0	NA	0.193138968	19	0.193138968	19
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	100	NA	100

**Grain Size Analysis Template**

Project: Breckridge Shelter  
 Sample: STP#6/L3  
 Location and Depth: 14

Weight Calton: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	4L	74.3465	50.7533	23.5932
Gravel	695	38.3865	29.8096	8.5769
Very Coarse Sand	705	32.2402	29.2265	3.0137
Coarse Sand	715	30.6162	29.3714	1.2448
Medium Sand	725	30.1754	29.3628	0.8126
Fine Sand	695	28.7335	28.1078	0.6257
Very Fine Sand	305	32.8091	32.4459	0.3632

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calton	Weight Calton	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	272	50.6273	29.3883	0.2390	0.0404	0.1986	40	7.2440
Medium: Fine Silt and Clay	285	27.9636	27.8414	0.1222	0.0404	0.0818	40	3.2720
Fine Silt and Clay	295	29.9518	29.9397	0.0121	0.0404	-0.0283	40	0.0000
Clay	305	29.6583	29.657	0.0013	0.0404	-0.0391	40	0.0000

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt	Weight Medium Silt	Weight Fine Silt
Total Silt and Clay	7.944	3.272	4.672
Medium and Fine Silt and Clay	0	3.272	3.272
Clay	0	0	0

Recovered Weight of Sample	Weight Total Sand	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	6.0000	7.944	13.944	22.5209	NA
NA	6.0000	7.944	13.944	NA	13.944
NA	6.0000	7.944	13.944	NA	13.944

% Error	Recovered Total Weight	Lost/Gained	/Original Total Weight	% Lost/Gained
Original Total Weight	23.5932	1.0723	4.54453631	23.5932

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel/2mm Recovered	Gravel/2mm Recovered x 100% Fraction	Gravel and Clay Fines/0.002-2mm Rec x100% Fraction
Gravel	8.5769	22.5209	38.08417958	NA	NA	NA
Very Coarse Sand	3.0137	NA	0.216128801	22	0.216128801	22
Coarse Sand	1.2448	NA	0.089271371	9	0.089271371	9
Medium Sand	0.8126	NA	0.058275961	6	0.058275961	6
Fine Sand	0.6257	NA	0.040569421	4	0.040569421	4
Coarse Silt	0.4672	NA	0.033054504	3	0.033054504	3
Medium Silt	3.272	NA	0.234652897	23	0.234652897	23
Fine Silt	0	NA	0	0	0	0
Clay	0	NA	0	0	0	0
Total	NA	NA	101	NA	NA	101

**Grain Size Analysis Template**

Project: Breckenridge Shelter

Sample: STP-7/L1

Sample Location and Depth: 15

Weight Calom: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	31	72.0402	50.652	21.3882
Gravel	51s	35.7855	28.3612	7.4243
Very Coarse Sand	52s	31.9748	30.1633	1.8115
Coarse Sand	53s	29.3089	28.3885	0.9204
Medium Sand	54s	29.3263	29.3421	0.0158
Fine Sand	55s	30.1219	29.3421	0.7798
Very Fine Sand	56s	30.1519	29.7434	0.4085

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calom	Weight Calom	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	31s	28.5239	28.527	0.2712	0.0404	0.2308	40	9.2320
Medium, Fine Silt and Clay	33s	29.5586	29.3792	0.1794	0.0404	0.1390	40	5.5600
Fine Silt and Clay	34s	31.2019	31.1673	0.0346	0.0404	-0.0038	40	0.0000
Clay	35s	29.7525	29.7385	0.0140	0.0404	-0.0264	40	0.0000

Weight of Individual Silt and Clay Fractions by Subtraction		
Total Silt and Clay	Weight Coarse Silt	Weight Medium Silt
9.232	5.56	3.672
Medium and Fine Silt and Clay	Weight Medium Silt	Weight Fine Silt
5.56	0	5.56
Fine Silt and Clay	Weight Fine Silt	Clay
0	0	0

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
7.4243	4.2636	9.232	0.0000	20.9199	NA
NA	4.2636	9.232	0.0000	13.4956	NA
NA	4.2636	9.232	NA	NA	13.4956

% Error	Original Total Weight	Recovered Total Weight	Lost/Gained	Lost/Gained / Original Total Weight	% Lost Gained
	21.3882	20.9199	0.4683	2.18925405	

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x100%	Gravel Frey/2mm Recovered	x100-% Fraction	Gravel and Clay Frey/0.002-2mm Rec x100 - % Fraction
Gravel	7.4243	20.9199	35.48917518	NA	NA	NA
Very Coarse Sand	1.8115	NA	0.134228934	13	0.134228934	13
Coarse Sand	0.9204	NA	0.043288183	7	0.043288183	7
Medium Sand	0.5823	NA	0.038456979	4	0.038456979	4
Fine Sand	0.519	NA	0.030269125	4	0.030269125	4
Very Fine Sand	0.4085	NA	0.272088681	3	0.272088681	3
Coarse Silt	3.672	NA	0.411986129	27	0.411986129	27
Medium Silt	5.56	NA	0	41	0	41
Fine Silt	0	NA	0	0	0	0
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	99	NA	99

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP-7/L2  
 Sample Location and Depth: 16

Weight Cullion: 0.0004

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	7	71.7033	48.5032	22.8001
Gravel	575	34.8396	29.3806	5.459
Very Coarse Sand	585	30.2492	28.323	1.9262
Coarse Sand	595	30.716	29.672	1.044
Medium Sand	605	28.8253	28.1286	0.7027
Fine Sand	375	28.8378	28.2166	0.6612
Very Fine Sand	385	28.5964	28.145	0.4514

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Cullion	Weight Cullion	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	365	29.9306	29.602	0.3286	0.0404	0.2882	40	11.527
Medium, Fine Silt and Clay	375	28.4056	28.2166	0.189	0.0404	0.1486	40	5.944
Fine Silt and Clay	385	28.1829	28.145	0.0379	0.0404	-0.0025	40	0
Clay	395	27.737	27.7234	0.0136	0.0404	-0.0268	40	0

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt	Weight Medium Silt	Weight Fine Silt	Weight Clay
Total Silt and Clay	11.528	5.944	5.944	0
Medium and Fine Silt and Clay	5.944	5.944	0	0
Fine Silt and Clay	0	0	5.944	0
Clay	0	0	0	5.944
Fine Silt and Clay	0	0	0	0

Recovered Weight of Sample	Weight Total Sand	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	5.459	11.528	0	21.7125	NA	NA
NA	4.7255	11.528	0	16.2333	NA	NA
NA	4.7255	11.528	0	16.2333	NA	16.2535

% Error	Original Total Weight	Recovered Total Weight	Lost/Gained	% Original Total Weight	% Lost/Gained
	22.8001	21.7125	1.0876	22.8001	4.7703-5.6317

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel/Fine/2mm Recovered	Gravel/Fine/0.002-2mm Rec x100% Fraction	Gravel and Clay Fine/0.002-2mm Rec x100% - % Fraction
Gravel	5.459	21.7125	25.1421919	NA	NA	NA
Very Coarse Sand	1.962	NA	0.118509859	12	0.118509859	12
Coarse Sand	1.044	NA	0.064232319	6	0.064232319	6
Medium Sand	0.7027	NA	0.04323765	4	0.04323765	4
Fine Sand	0.6612	NA	0.036989856	4	0.036989856	4
Coarse Silt	0.4514	NA	0.020898958	3	0.020898958	3
Medium Silt	5.944	NA	0.34356772	34	0.34356772	34
Fine Silt	0	NA	0.365705848	37	0.365705848	37
Clay	0	NA	0	0	0	0
Total	NA	NA	NA	100	NA	100



**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP 8/L1  
 Sample Location and Depth: 17  
 Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	5L	71.9030	50.2701	21.6329
Gravel	395	34.6806	27.7234	6.9572
Very Coarse Sand	415	30.6393	29.3872	1.2521
Coarse Sand	425	31.1511	30.6427	0.5084
Medium Sand	435	30.0153	29.7123	0.3030
Fine Sand	455	28.6439	28.2587	0.3852
Very Fine Sand	465	28.9773	28.2004	0.7769

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	415	29.7081	29.3872	0.3209	0.0404	0.2805	40	11.2200
Medium, Fine Silt and Clay	425	30.8112	30.6427	0.1685	0.0404	0.1281	40	5.1240
Fine Silt and Clay	435	29.7445	29.7123	0.0322	0.0404	-0.0082	40	0.0000
Clay	455	28.2703	28.2587	0.0116	0.0404	-0.0288	40	0

Weight of Individual Silt and Clay Fractions by Subtraction

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Total Silt	Weight Coarse Silt
Total Silt and Clay	11.22	6.096
Medium and Fine Silt and Clay	5.124	5.124
Medium Sand	0	0
Fine Sand	0	0
Fine Silt and Clay	5.124	5.124
Clay	0	0
Very Fine Sand	0	0

Recovered Weight of Sample	Weight Total Sand	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	6.9572	2.7856	0.0000	20.9628	NA
NA	2.7856	11.22	0.0000	NA	NA
NA	2.7856	11.22	0.0000	NA	14.0056

% Error	Recovered Total Weight	Loss/Gained	% Lost/Gained
Original Total Weight	21.6329	0.6701	3.097597716
Recovered Total Weight	20.9628	21.6329	3.097597716

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel/Fine/Coarse Sand Recovered	x100-% Fraction	Gravel and Clay Fine/0.002-2mm Rec x100-% Fraction
Gravel	6.9572	20.9628	33.18831454	NA	NA	NA
Very Coarse Sand	1.2521	20.9628	0.08939954	9	0.08939954	9
Coarse Sand	0.5084	NA	0.086299766	4	0.086299766	4
Medium Sand	0.3030	NA	0.021634203	2	0.021634203	2
Fine Sand	0.3852	NA	0.027502884	3	0.027502884	3
Very Fine Sand	0.7769	NA	0.03525497	44	0.03525497	44
Coarse Silt	5.124	NA	0.365853659	37	0.365853659	37
Medium Silt	0	NA	0	0	0	0
Fine Silt	0	NA	0	0	0	0
Clay	0	NA	0	0	0	0
Total	NA	NA	101	NA	NA	101

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP 8/L2  
 Sample Location and Depth: 18

Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	10L	74.5435	50.6367	24.3069
Gravel	475	36.7758	29.5943	7.1815
Very Coarse Sand	488	33.3793	30.1363	3.2430
Coarse Sand	255	30.1957	29.5696	0.6261
Medium Sand	275	29.8996	29.8883	0.0113
Fine Sand	288	28.1851	27.8414	0.3437
Very Fine Sand	235	30.2315	29.9397	0.2918

Slit and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	465	28.6225	28.5004	0.3221	0.0404	0.2817	40	11.2680
Medium, Fine Silt and Clay	475	29.7725	29.5943	0.1782	0.0404	0.1378	40	5.5120
Fine Silt and Clay	488	30.1781	30.1363	0.0418	0.0404	0.0014	40	0.0560
Clay	495	28.1794	28.1678	0.0116	0.0404	-0.0288	40	0

Weight of Individual Silt and Clay Fractions by Subtraction	Weight Coarse Silt	Weight Medium Silt	Weight Fine Silt	Weight Fine Silt
Total Silt and Clay	11.268	5.512	0.056	0
Medium and Fine Silt and Clay		5.756		
Medium and Fine Silt and Clay			5.456	
Fine Silt and Clay				0.056

Recovered Weight of Sample	Weight Total Sand	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	7.1815	11.268	23.4654	NA	NA
NA	5.0159	11.268	0.0000	16.2839	NA
NA	5.0159	11.268	0.0000	NA	16.2839

% Error	Original Total Weight	Recovered Total Weight	Lost/Gained	% Lost/Gained
	24.3069	23.4654	0.8415	3.46197932

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Free/2mm Recovered	x100-% Fraction	Gravel and Clay Free/0.002-2mm Rec x100 - % Fraction
Gravel	7.1815	23.4654	30.60463491	NA	NA	NA
Very Coarse Sand	3.243	NA	0.199153765	20	0.199153765	20
Coarse Sand	0.6261	NA	0.03844902	4	0.03844902	4
Medium Sand	0.5133	NA	0.03199112	3	0.03199112	3
Fine Sand	0.3437	NA	0.02186737	2	0.02186737	2
Coarse Silt	0.3243	NA	0.0210654	2	0.0210654	2
Medium Silt	5.456	NA	0.353477975	35	0.353477975	35
Fine Silt	0.056	NA	0.33505487	34	0.33505487	34
Clay	0	NA	0.00343888	0	0.00343888	0
Total	NA	NA	NA	100	NA	100

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: ST 12/L1  
 Sample Location and Depth: 19

Weight Calgon: 0.0404

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	11L	73.8888	50.4237	23.4651
Gravel	306	36.5945	29.6570	6.9375
Very Coarse Sand	315	32.2149	28.2527	3.9622
Coarse Sand	338	31.5527	29.3792	2.1735
Medium Sand	348	32.2141	31.1673	1.0468
Fine Sand	358	30.6381	29.7385	0.8996
Very Fine Sand	308	30.0658	29.602	0.4633

Silt and Clay Fractions	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	506	52.6726	32.4459	0.2267	0.0404	0.1863	40	7.4520
Medium, Fine Silt and Clay	515	28.4824	28.9512	0.1212	0.0404	0.0808	40	3.2320
Fine Silt and Clay	525	30.1895	30.1633	0.0262	0.0404	-0.0142	40	0.0000
Clay	535	28.3804	28.3685	0.0119	0.0404	-0.0285	40	0.0000

Weight of Individual Silt and Clay Fractions by Subtraction	Weight
Total Silt and Clay	7.452
Medium and Fine Silt and Clay	3.232
Weight Coarse Silt	4.22
Medium and Fine Silt and Clay	3.232
Weight Medium Silt	0
Fine Silt and Clay	3.232
Clay	0
Weight Fine Silt	0

Recovered Weight of Sample	Weight Total Sand	Weight Total Silt	Weight Clay	Total Recovered Weight	-2 mm Recovered Weight	0.002-2mm Recovered Weight
Weight Gravel	6.9375	8.3659	7.452	22.7354	NA	NA
NA	8.3659	7.452	NA	0.0000	NA	NA
NA	8.3659	7.452	NA	0.0000	NA	15.7979
NA	8.3659	7.452	NA	0.0000	NA	15.7979

% Error	Original Total Weight	Recovered Total Weight	Lost/Gained	% Original Total Weight	% Lost/Gained
	23.4651	22.7354	0.7297	23.4651	3.109724655

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Free/2mm Recovered	x100-% Fraction	Gravel and Clay Free/0.002-2mm Rec x100 - % Fraction
Gravel	6.9375	22.7354	30.51408816	NA	NA	NA
Very Coarse Sand	3.9622	NA	0.250805487	NA	25	0.250805487
Coarse Sand	2.1735	NA	0.137581577	NA	14	0.137581577
Medium Sand	1.0668	NA	0.066261972	NA	7	0.066261972
Fine Sand	0.8996	NA	0.055883832	NA	4	0.055883832
Very Fine Sand	0.4633	NA	0.029385832	NA	3	0.029385832
Coarse Silt	4.22	NA	0.267124111	NA	27	0.267124111
Medium Silt	3.232	NA	0.204584154	NA	20	0.204584154
Fine Silt	0	NA	0	NA	0	0
Clay	0	NA	0	NA	0	0
Total	NA	NA	NA	NA	100	NA

**Grain Size Analysis Template**

Project: Breckenridge Shelter  
 Sample: STP-12/L2  
 Sample Location and Depth: 20

Weight Calgon: 0.0004

Size Fraction	Beaker #	Beaker + Sample	Weight Beaker	Weight Sample
Total	1.2L	74.3427	51.1294	23.2133
Gravel	1.3L	39.8981	30.2832	9.6149
Very Coarse Sand	1.4L	33.2291	29.5133	3.7158
Coarse Sand	1.5L	31.0801	29.6468	1.4333
Medium Sand	1.6L	30.0815	29.3512	0.7303
Fine Sand	1.7L	29.6875	29.4991	0.4384
Very Fine Sand	1.8L	29.8267	29.5262	0.3051

Size Fraction	Beaker #	Beaker and Sample	Weight Beaker	Weight Sample and Calgon	Weight Calgon	Weight Sample	x40	Weight 100% Sample
Total Silt and Clay	5.6L	39.555	39.421	0.134	0.0404	0.1746	40	6.904
Medium, Fine Silt and Clay	5.5L	29.8245	29.7651	0.1184	0.0404	0.0780	40	3.1200
Fine Silt and Clay	5.6L	29.7625	29.7434	0.0191	0.0404	-0.0213	40	0.0000
Clay	5.7L	29.3878	29.3806	0.0072	0.0404	-0.0332	40	0.0000

**Weight of Individual Silt and Clay Fractions by Subtraction**

Size Fraction	Weight
Total Silt and Clay	6.904
Medium and Fine Silt and Clay	3.12
Fine Silt and Clay	3.784
Clay	0
Weight Fine Silt	3.12
Weight Very Fine Silt	0

Recovered Weight of Sample	Weight Total Silt	Weight Clay	Total Recovered Weight	<2 mm Recovered Weight	0.002-2mm Recovered Weight
9.6149	6.904	0.0000	22.7372	NA	NA
NA	6.904	0.0000	NA	13.1223	NA
NA	6.283	6.594	NA	NA	13.1223

% Error	Recovered Total Weight	Lost/Gained	% Lost/Gained
0.0000	22.7372	0.4761	2.0979595

Weight % Size Fractions	Weight Fraction	Total Recovered Weight	Gravel/Total Recovered x 100%	Gravel Fine/2mm Recovered	x100-% Fraction	Gravel and Clay Fine/0.002-2mm Rec x100 - % Fraction
Gravel	9.6149	22.7372	42.287089	NA	NA	NA
Very Coarse Sand	3.1518	NA	NA	0.252684362	25	0.252684362
Coarse Sand	1.4333	NA	NA	0.109226279	11	0.109226279
Medium Sand	0.7303	NA	NA	0.055653353	6	0.055653353
Fine Sand	0.4384	NA	NA	0.033408777	3	0.033408777
Very Fine Sand	0.3051	NA	NA	0.022895949	2	0.022895949
Medium Silt	3.12	NA	NA	0.237763197	24	0.237763197
Fine Silt	0	NA	NA	0	0	0
Clay	0	NA	NA	0	0	0
Total	NA	NA	NA	100	NA	100