

**Report of the
Skagafjörður Archaeological Settlement Survey
2009:**

Coring and Test pit at Kjartansstaðir (57)

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Additional copies of this report and other reports, as well as much of the raw data can be downloaded from <http://www.fiskecenter.umb.edu/SASS.htm>

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Goals

The goal of the work at Kjartansstaðir (57) was straightforward. We used cores to identify any areas away from the farm mound that may be areas of early occupations. If any of these earlier occupations were identified, and were substantial, they would be targets for geophysics and further archaeological exploration. None of these areas were encountered at Kjartansstaðir. We also sought to date the earliest occupation of the visible farmmound by placing and excavating a 1x1 m test pit in the oldest part of the midden.

Coring

Coring at Kjartansstaðir began on 7/9/2009 and went through 7/14/2009. Joanna Curtis, Kathryn Catlin, Robert de Piccitto, Kelly Hale and John Steinberg took the cores. We used a JMC backsaver core with two extensions if necessary. For deep midden exploration we sometimes used the N-3 handle, but mostly the standard backsaver handle. We employed the 18 in long 1.5 in wide JMC large diameter sampling tubes. The sample tube was cleaned between each sample and grass placed in the core hole between samples of the same core hole so as to distinguish loose soil fall from in situ deposits. Core locations were recorded with a sub-meter GPS in Real time. These coordinates were post-processed and those post-processed coordinates are the ones associated with the cores in this report. Tephra layers were recorded along with natural and cultural deposits and any inclusions.

We took 139 cores at Kjartansstaðir (Figure 1). The eastern edge of the coring grid contained bog deposits. In general tephra preservation was good. Of the 139 cores taken some identifiable tephra was found in 103 of them (74%): 14 with 1776, 17 with 1300, 70 with H1, 10 with 1000 and 37 with the LNL/LNS. Of those cores, three off the mound had cultural material (Figure 2). None of these spots had midden under the 1104 tephra layer.

In order to locate the oldest part of the midden we took 26 cores around the farm mound (Figure 3). We wanted to identify the area where there was substantial midden under the 1000 tephra layer or midden deposits very close to the LNL (Figure 4). The cultural deposits on top of the area also had to be less than 3 m, as test pits become difficult after that depth. In general we first placed cores on a 10m grid. The spacing was then confined to identify the deepest part of the midden as well as the oldest part of the midden (close to the LNS). We took several cores that had those characteristics half way up the farmmound to the east of the building.

Test pit

Test pitting began 7/14/2009 and went through 7/15/2009, excavated by Emily Button & Rita Shepard with assistance from Katharine Corwin. The location (E 476190 N 570146) was determined by the cores. Above the 1300 tephra the midden was colorful and heterogeneous (Figure 6) with several distinct ash layers (e.g., contexts 103 104 & 105). Below the 1104 tephra, the midden was a more consistent orange and more homogeneous. There was very little midden between the 1000 tephra and the LNS tephra [109].

Floatation

Samples for flotation from all pre 1300 AD contexts were taken. Whenever possible, samples were taken during excavation. Most samples from Kjartansstaðir were taken from the sidewalls and precautions were taken never to contaminate samples. The flotation sample from contexts 107, 108, 109 and the 950/LNS were analyzed. In some cases, multiple samples from the same context were taken. If this occurred they were floated and analyzed separately.

Context 109, below the 1000 tephra and above the LNS contained two *Hordeum* seeds, one of which was AMS dated. The sample (77360) was run by Brian Damiata at the W. M. Keck Carbon Cycle Accelerator Mass Spectrometry Laboratory at the University of California, Irvine. The date came back at 1080 ± 15 radiocarbon years before present. Calibrated this comes out to 897-922 AD (26.7%), 942-1015 AD (68.7%). The LNS sample had no charred seeds or cultural material.

Interpretation

Based on the spread of cores with midden under the 1104 tephra we estimate that in about 1104 that the mound size was about 2271 m^2 (the area under the H1 tephra). The test pit profile, the cores around the test pit, and the date on the charred *Hordeum* yield a date somewhere between 897 and 1000. Based on the test pit, we estimate that the farm was founded in about 977 AD.

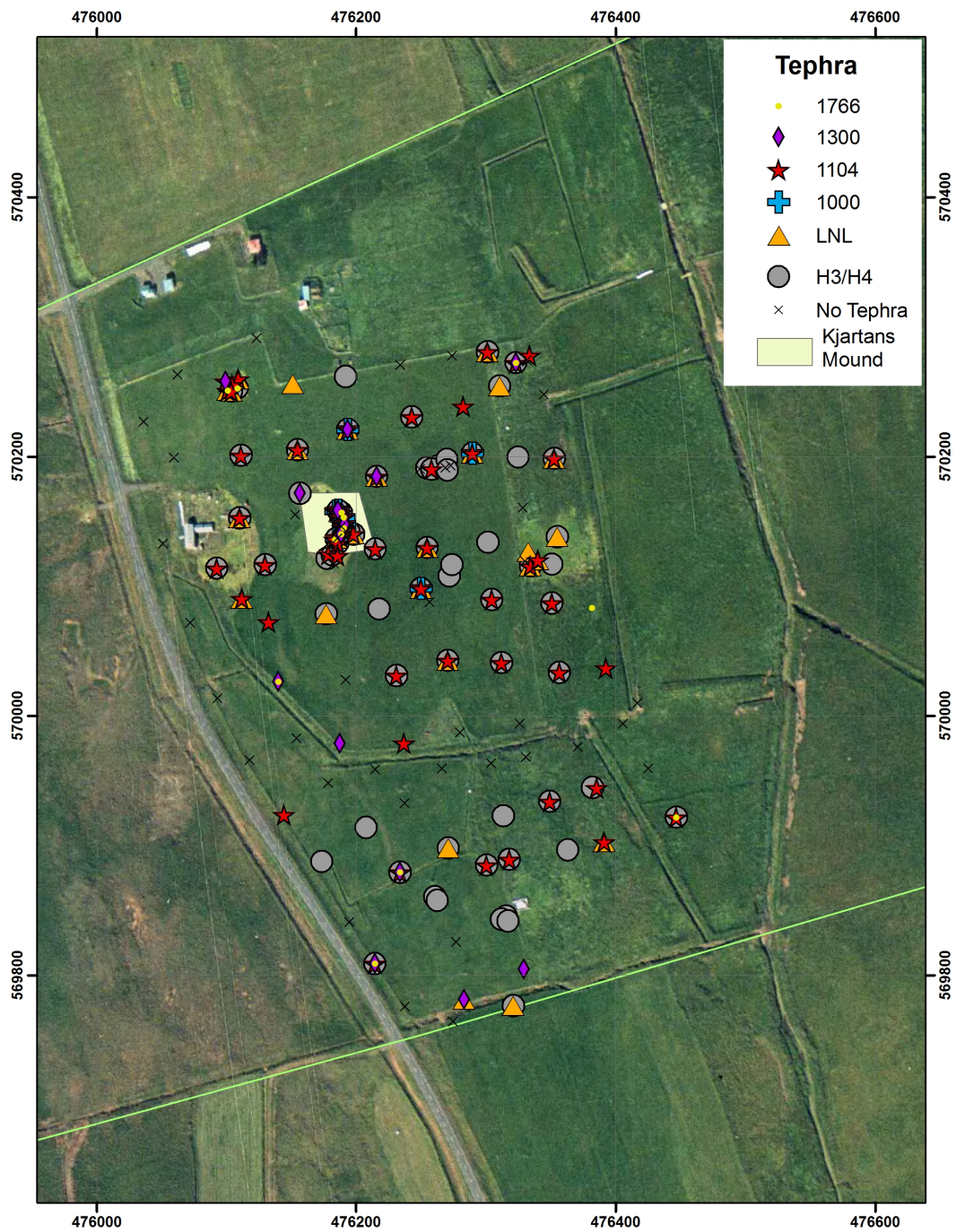


Figure 1. Tephra distribution.

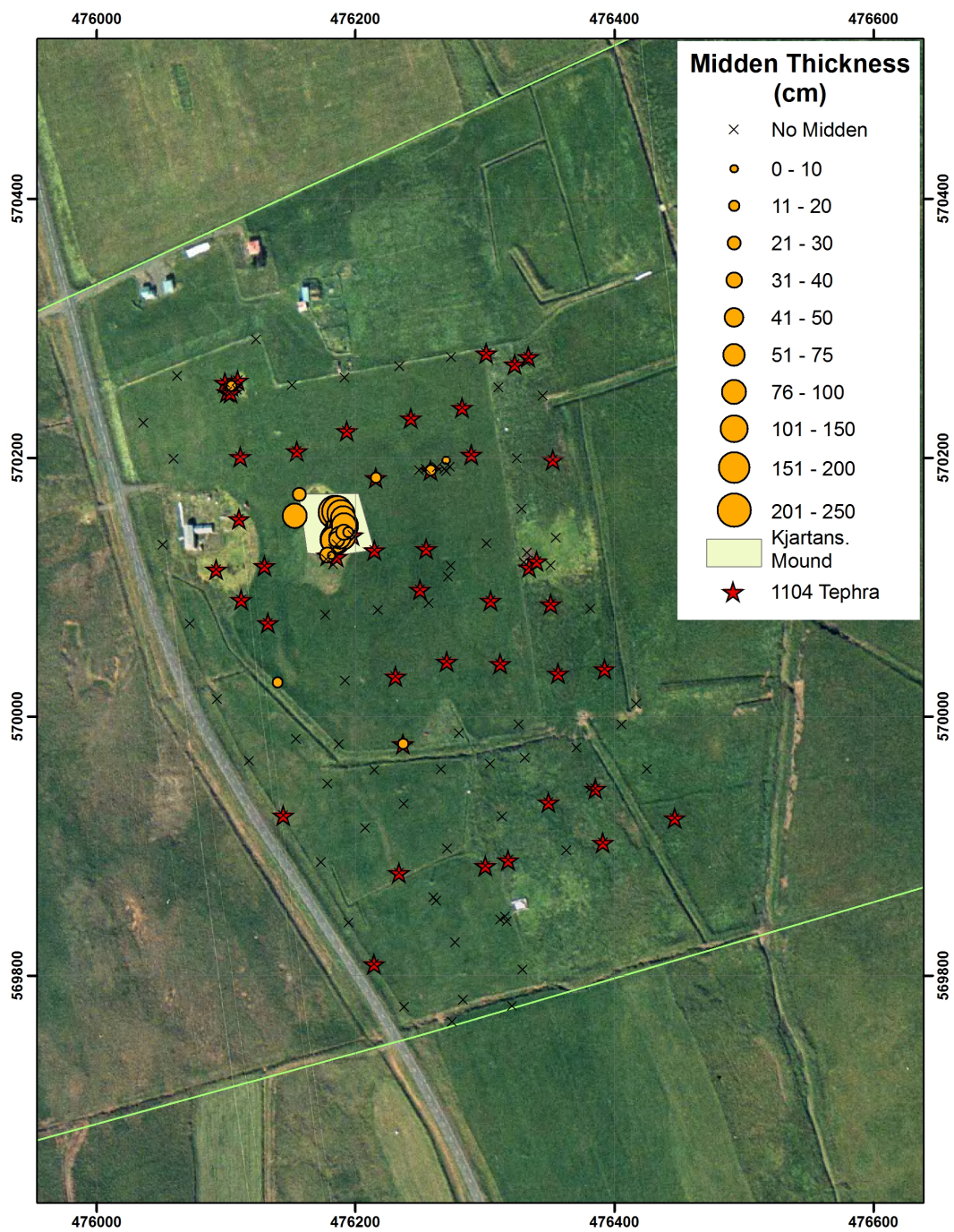


Figure 2. Distribution of midden.

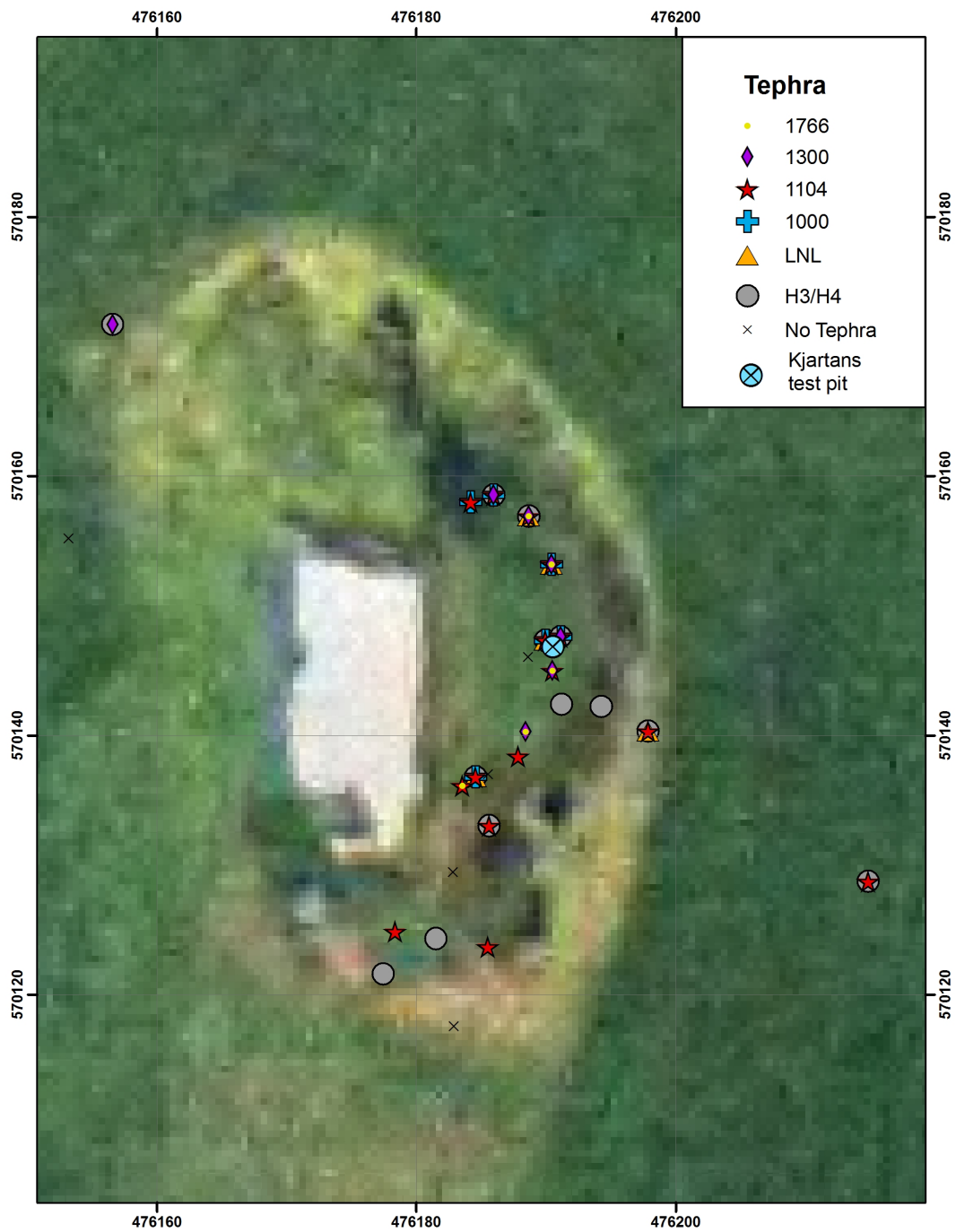


Figure 3. Distribution of tephra layers around farmmound.

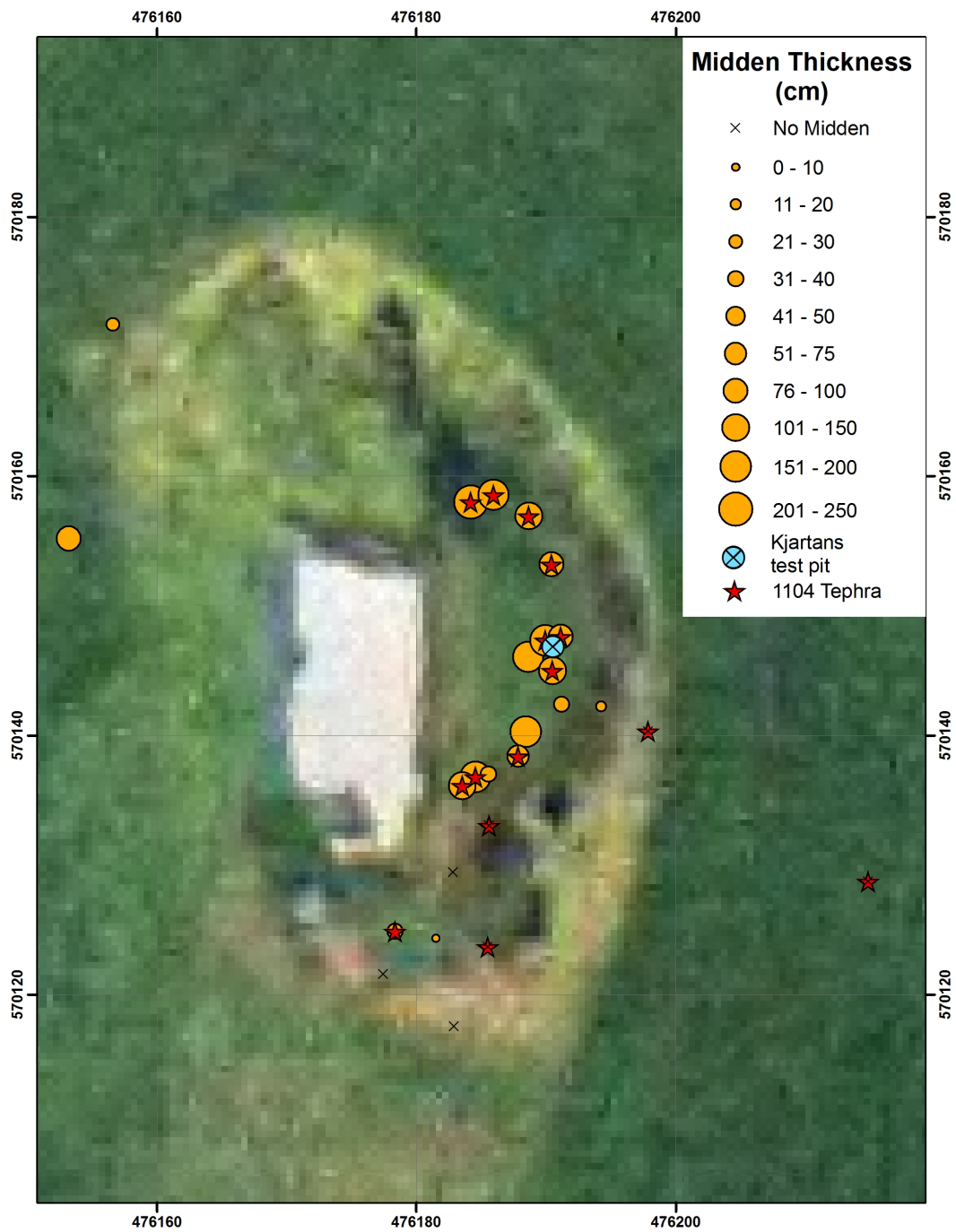


Figure 4. Distribution of midden around farmmound.

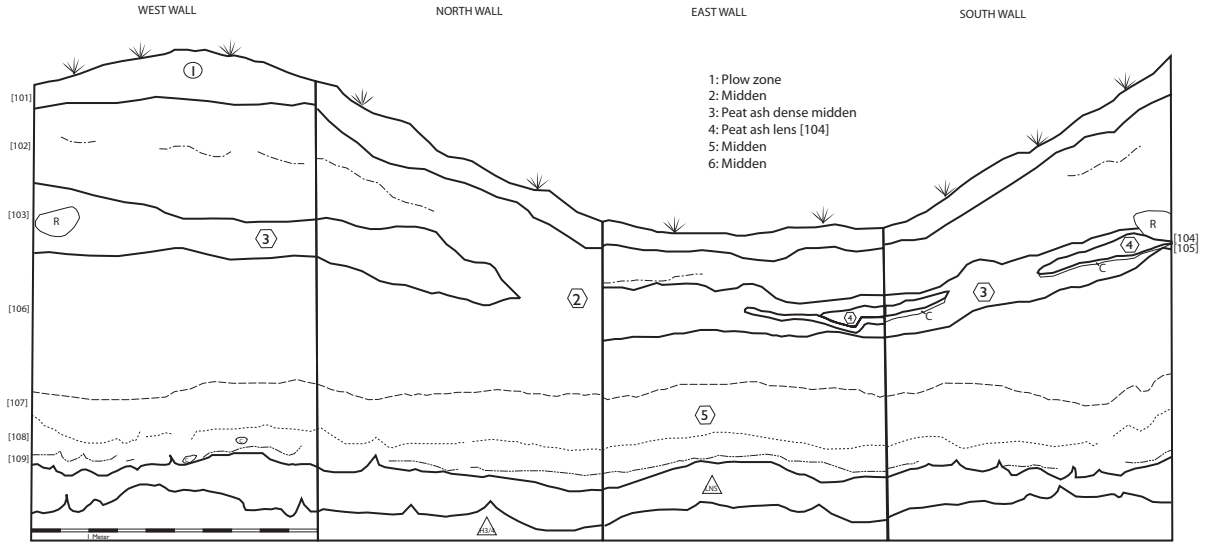


Figure 5. Profile of test pit



Figure 6. West wall test pit profile.



Figure 7. North wall test pit profile.

Table 1. Finds

CONTEXT	MATERIAL TYPE	OBJECT TYPE	DESCRIPTION
102	Ceramic	Sherd	Ceramic Brown ware
108	Metal	Iron Nail?	Iron nail or rivet

Site	Core	Tephra Layer	Depth	East	North
57	1350			476197.88	570140.342
		H1	32		
		LNL	38		
		H3	62		
		H4	72		
	1351			476188.637	570146.042
		unknown	191		
	1352			476189.942	570147.35
		H1	142		
		1000	155		
		LNL	163		
		H3	170		
	1353			476190.483	570144.994
		1766	78		
		1300	145		
		H1	159		
	1354			476190.428	570153.193
		1766	68		
		1300	95		
		H1	106		
		1000	115		
		LNL	118		
	1355			476188.42	570140.283
		1766	93		
		1300	122		
	1356			476188.654	570156.94
		1766	25		
		H1	49		
		1300	90		
		H1	132		
		LNL	150		
		H3	158		
	1357			476184.186	570158.006
		H1	136		
		1000	215		
	1358			476185.95	570158.555
		1300	145		
		H1	175		
		1000	191		
		H3	211		

Site	57	Tephra Layer	Depth	East	North
		H4	218		
Core	1359			476187.839	570138.398
		H1	68		
Core	1361			476184.571	570136.793
		H1	76		
		LNL	115		
		1000	180		
		H3	210		
Core	1362			476183.532	570136.125
		1766	75		
		H1	200		
Core	1363			476185.605	570133.052
		H1	60		
		H3	105		
Core	1365			476177.457	570121.617
		H3	180		
Core	1366			476181.515	570124.353
		H1	25		
		H3	180		
Core	1367			476178.372	570124.896
		H1	30		
Core	1370			476185.5	570123.699
		H1	12		
Core	1371			476194.258	570142.218
		H3	55		
		H4	58		
Core	1374			476191.199	570142.404
		H3	90		
		H4	100		
Core	1375			476191.136	570147.614
		1300	77		
		H1	115		
		1000	120		
		LNL	140		
		H3	147		
		H4	150		
Core	1376			476139.762	570026.602
		1766	22		
		1300	32		

Site	Core	Tephra Layer	Depth	East	North
57	1377			476187.238	569978.803
		1300	55		
	1379			476236.744	569979.061
		H1	35		
	1380			476230.963	570031.176
		H1	26		
		H3	64		
		H4	74		
	1382			476270.71	570042.708
		H1	26		
		LNL	34		
		H3	64		
		H4	72		
	1384			476311.933	570041.181
		H1	28		
		H1	32		
		H3	69		
		H4	79		
	1385			476304.525	570089.826
		H1	21		
		H3	28		
		H4	35		
		unknown	50		
	1386			476256.639	570087.845
		H1	18		
		LNL	30		
		H3	50		
		H4	60		
	1387			476301.535	570133.743
		H3	35		
		H4	50		
	1388			476254.756	570129.802
		H1	27		
		LNL	32		
		H3	54		
	1389			476214.846	570128.736
		H1	21		
		H1	27		
		LNL	32		
		LNL	40		

Site	57	Tephra Layer	Depth	East	North
		H3	55		
		H4	65		
Core	1390			476217.358	570082.303
		H3	35		
		H4	48		
Core	1391			476176.69	570078.74
		LNL	30		
		H3	35		
		H4	45		
Core	1392			476132.556	570072.517
		H1	8		
		H1	22		
		H3	30		
		H4	32		
Core	1393			476129.722	570116.44
		H1	28		
		H3	35		
Core	1394			476271.75	570108.209
		H3	66		
		H4	75		
Core	1395			476273.771	570116.694
		H3	47		
		H4	58		
Core	1396			476249.88	570098.45
		H1	23		
		1000	31		
		LNL	35		
		H3	62		
		H4	78		
Core	1397			476111.886	570090.58
		H1	40		
		LNL	56		
Core	1398			476092.568	570114.049
		H1	40		
		H3	75		
Core	1402			476111.005	570200.985
		H1	15		
		H3	35		
		H4	40		

Site	Core	Tephra Layer	Depth	East	North
57	1403			476110.023	570152.863
		H1	35		
		LNL	40		
		H3	55		
		H4	70		
	1405			476154.815	570205.226
		H1	35		
		LNL	63		
		H3	75		
		H4	79		
	1410			476093.192	570013.546
		LNL	30		
	1414			476144.306	569923.923
		H1	13		
	1415			476207.568	569913.99
		H3	18		
		H4	27		
	1418			476173.347	569887.646
		H3	30		
		H4	35		
	1419			476233.84	569879.459
		1766	10		
		1300	12		
		H1	22		
		H3	32		
		H4	35		
	1421			476270.797	569898.093
		LNL	12		
		H3	27		
		H4	32		
	1423			476318.013	569889.294
		H1	30		
		H3	40		
		H4	45		
	1424			476313.42	569923.03
		H3	31		
		H4	35		
	1426			476363.171	569896.896
		H3	35		
		H4	37		

Site	Core	Tephra Layer	Depth	East	North
57	1427			476349.096	569934.217
		H1	15		
		H3	26		
		H4	33		
	1429			476391.237	569902.958
		H1	20		
		LNL	27		
	1430			476382.028	569945.047
		H3	18		
		H4	32		
	1431			476385.473	569944.698
		H1	17		
	1433			476446.585	569921.754
		1766	50		
		H1	105		
		H3	140		
	1437			476392.594	570037.179
		H1	14		
	1438			476356.479	570033.553
		H1	27		
		H3	35		
	1439			476381.877	570083.277
		1766	25		
	1440			476350.843	570087.213
		H1	25		
		H3	42		
	1441			476350.914	570116.964
		H1	25		
		H3	60		
	1442			476334.243	570115.681
		H1	60		
		LNL	65		
		H3	80		
	1443			476354.821	570138.336
		H1	34		
		LNL	60		
		H3	65		
		H4	71		

Site	Core	Tephra Layer	Depth	East	North
57	1444			476340.076	570120.366
		H1	28		
		LNL	33		
	1446			476332.496	570126.832
		1766	20		
		LNL	80		
	1447			476328.657	570160.598
		unknown	105		
	1448			476324.89	570199.506
		H1	27		
		LNL	30		
		H3	36		
		H4	40		
	1449			476352.526	570198.514
		H1	20		
		LNL	25		
		H3	37		
		H4	39		
	1451			476310.542	570254.285
		LNL	38		
		H3	60		
		H4	67		
	1452			476323.113	570272.372
		1766	31		
		1300	35		
		H1	52		
		H3	71		
	1453			476333.522	570278.125
		H1	37		
	1455			476301.157	570280.881
		H1	25		
		LNL	35		
		H3	65		
		H4	72		
	1457			476101.011	570250.947
		1766	35		
		H1	70		
		LNL	81		
	1459			476109.096	570259.941
		H1	32		

Site	57	Tephra Layer	Depth	East	North
		LNL	45		
Core	1460			476099.223	570258.134
		1300	72		
		H1	78		
Core	1461			476104.39	570255.371
		H1	35		
Core	1462			476108.334	570252.652
		1766	35		
		H1	62		
		H3	69		
		H4	75		
Core	1464			476103.502	570250.499
		H1	35		
		LNL	40		
		H3	74		
		H4	80		
Core	1465			476150.916	570256.254
		H1	18		
		H1	22		
		H1	31		
		LNL	51		
Core	1466			476191.823	570261.958
		H3	37		
		LNL	45		
		H3	55		
Core	1467			476193.288	570220.915
		1300	30		
		H1	35		
		1000	38		
		LNL	51		
		H3	64		
		H4	70		
Core	1469			476242.921	570230.825
		H1	15		
		H3	40		
		H4	60		
Core	1471			476282.452	570238.914
		H1	26		
Core	1472			476289.716	570202.639
		H1	35		

Site	57	Tephra Layer	Depth	East	North
		1000	40		
		LNL	50		
		H3	55		
		H4	60		
Core	1473			476254.401	570191.604
		LNL	22		
		LNL	32		
		H3	45		
		H4	55		
Core	1474			476258.215	570190.291
		H1	35		
		H1	49		
		1000	55		
		H3	62		
		H4	72		
Core	1477			476270.079	570197.751
		H1	38		
		H3	52		
		H4	60		
Core	1478			476263.233	570192.776
		H3	40		
		H4	70		
Core	1479			476270.267	570189.76
		H3	55		
Core	1481			476215.928	570184.821
		1300	25		
		H1	35		
		LNL	60		
		H3	65		
		H4	70		
Core	1482			476156.598	570171.691
		H4	14		
		1300	37		
		H1	52		
		H3	108		
Core	1501			476194.92	569840.837
		H1	35		
Core	1502			476214.546	569809.176
		1766	15		
		1300	22		

Site	57	Tephra Layer	Depth	East	North
		H1	30		
		H3	40		
Core	1504			476283.079	569781.354
		1300	31		
		LNL	40		
Core	1506			476260.416	569860.5
		H3	30		
		H4	51		
Core	1507			476300.487	569884.876
		H1	12		
		H3	36		
		H4	50		
Core	1508			476315.692	569845.591
		H1	40		
		H1	60		
		H1	65		
		H3	76		
Core	1509			476329.193	569804.782
		1300	36		
Core	1510			476311.787	569843.316
		H3	35		
		H4	40		
Core	1511			476262.564	569857.805
		H3	40		
		H4	52		
Core	1512			476316.866	569841.79
		H1	12		
		H3	38		
		H4	40		
Core	1514			476320.975	569776.563
		LNL	60		
		H3	70		
		H4	78		

Site	57	description	top depth	bottom depth	Thickness
CORE	1350		476197.88	570140.342	
		Plow Zone	0	10	10
		Aeolian Deposit	10	65	55
		Bog	65	70	5
		Aeolian Deposit	70	80	10
CORE	1351		476188.637	570146.042	
		Plow Zone	0	15	15
		Midden	15	185	170
		Aeolian Deposit	185	200	15
CORE	1352		476189.942	570147.35	
		Midden	0	152	152
		Aeolian Deposit	152	180	28
CORE	1353		476190.483	570144.994	
		Plow Zone	0	20	20
		Midden	20	70	50
		Iron Pan	70	75	5
		Midden	75	146	71
		Aeolian Deposit	146	160	14
CORE	1354		476190.428	570153.193	
		Plow Zone	0	10	10
		Midden	10	105	95
		Aeolian Deposit	105	160	55
CORE	1355		476188.42	570140.283	
		Top Soil	0	5	5
		Midden	5	112	107
		Low Density Cultural	112	160	48
CORE	1356		476188.654	570156.94	
		Plow Zone	0	20	20
		Midden	20	120	100
		Low Density Cultural	120	130	10
		Aeolian Deposit	130	160	30
CORE	1357		476184.186	570158.006	
		Midden	0	160	160
		Low Density Cultural	160	173	13
		Hay	173	190	17
		Turf	190	200	10
		Low Density Cultural	200	215	15

Site	57				
		description	top depth	bottom depth	Thickness
		Aeolian Deposit	215	240	25
CORE	1358		476185.95	570158.555	
		Plow Zone	0	20	20
		Midden	20	190	170
		Iron Pan	190	210	20
		Aeolian Deposit	210	230	20
CORE	1359		476187.839	570138.398	
		Plow Zone	0	18	18
		Midden	18	75	57
		Rock	75	75	0
CORE	1360		476185.548	570137.023	
		Plow Zone	0	11	11
		Midden	11	45	34
		Rock	45	45	0
CORE	1361		476184.571	570136.793	
		Plow Zone	0	10	10
		Low Density Cultural	10	35	25
		Midden	35	120	85
		Turf	120	130	10
		Midden	130	190	60
		Low Density Cultural	190	200	10
		Aeolian Deposit	200	220	20
CORE	1362		476183.532	570136.125	
		Plow Zone	0	20	20
		Aeolian Deposit	20	80	60
		Midden	80	200	120
CORE	1363		476185.605	570133.052	
		Plow Zone	0	15	15
		Aeolian Deposit	15	52	37
		Turf	52	54	2
		Aeolian Deposit	54	120	66
CORE	1364		476182.914	570117.56	
		Plow Zone	0	10	10
		Aeolian Deposit	10	40	30
		Clay	40	60	20
		Iron Pan	60	80	20

Site	57	description	top depth	bottom depth	Thickness
CORE	1365		476177.457	570121.617	
		Plow Zone	0	12	12
		Aeolian Deposit	12	200	188
CORE	1366		476181.515	570124.353	
		Plow Zone	0	10	10
		Aeolian Deposit	10	20	10
		Turf	20	60	40
		Aeolian Deposit	60	110	50
		Turf	110	145	35
		Low Density Cultural	145	155	10
		Aeolian Deposit	155	200	45
CORE	1367		476178.372	570124.896	
		Plow Zone	0	15	15
		Aeolian Deposit	15	30	15
		Turf	30	49	19
		Low Density Cultural	49	80	31
		Turf	80	160	80
CORE	1368		476182.85	570129.45	
		Plow Zone	0	10	10
		Aeolian Deposit	10	20	10
		Rock	20	20	0
CORE	1370		476185.5	570123.699	
		Plow Zone	0	10	10
		Aeolian Deposit	10	42	32
		Rock	42	42	0
CORE	1371		476194.258	570142.218	
		Plow Zone	0	20	20
		Midden	20	35	15
		Aeolian Deposit	35	80	45
CORE	1374		476191.199	570142.404	
		Plow Zone	0	55	55
		Low Density Cultural	55	89	34
		Aeolian Deposit	89	120	31
CORE	1375		476191.136	570147.614	
		Plow Zone	0	38	38
		Midden	38	120	82
		Aeolian Deposit	120	128	8

Site	57	description	top depth	bottom depth	Thickness
		Turf	128	145	17
		Aeolian Deposit	145	160	15
CORE	1376		476139.762	570026.602	
		Plow Zone	0	15	15
		Midden	15	35	20
		Turf	35	42	7
		Rock	42	42	0
CORE	1377		476187.238	569978.803	
		Plow Zone	0	15	15
		Iron Pan	15	40	25
		Aeolian Deposit	40	80	40
CORE	1378		476192.074	570027.756	
		Plow Zone	0	22	22
		Aeolian Deposit	22	57	35
		Rock	57	57	0
CORE	1379		476236.744	569979.061	
		Plow Zone	0	20	20
		Low Density Cultural	20	35	15
		Clay	35	40	5
		Aeolian Deposit	40	50	10
		Iron Pan	50	51	1
CORE	1380		476230.963	570031.176	
		Plow Zone	0	20	20
		Aeolian Deposit /Burnt Bone	20	37	17
		Bog	37	74	37
		Clay	74	80	6
CORE	1381		476280.171	569987.107	
		Bog	0	45	45
		Rock	45	45	0
CORE	1382		476270.71	570042.708	
		Top Soil	0	14	14
		Aeolian Deposit	14	40	26
		Iron Pan	40	50	10
		Bog	50	80	30
CORE	1383		476326.307	569993.982	
		Plow Zone	0	17	17
		Rock	17	17	0

Site	57	description	top depth	bottom depth	Thickness
CORE	1384		476311.933	570041.181	
		Plow Zone	0	12	12
		Aeolian Deposit	12	50	38
		Iron Pan	50	58	8
		Bog	58	80	22
CORE	1385		476304.525	570089.826	
		Plow Zone	0	20	20
		Aeolian Deposit	20	35	15
		Iron Pan	35	50	15
CORE	1386		476256.639	570087.845	
		Plow Zone	0	15	15
		Turf	15	80	65
CORE	1387		476301.535	570133.743	
		Plow Zone	0	12	12
		Aeolian Deposit	12	32	20
		Bog	32	45	13
		Aeolian Deposit	45	80	35
CORE	1388		476254.756	570129.802	
		Plow Zone	0	23	23
		Aeolian Deposit	23	80	57
CORE	1389		476214.846	570128.736	
		Plow Zone	0	10	10
		Aeolian Deposit	10	22	12
		Turf	22	45	23
		Aeolian Deposit	45	65	20
		Iron Pan	65	80	15
CORE	1390		476217.358	570082.303	
		Plow Zone	0	15	15
		Turf	15	32	17
		Aeolian Deposit	32	75	43
		Rock	75	75	0
CORE	1391		476176.69	570078.74	
		Plow Zone	0	25	25
		Aeolian Deposit	25	57	32
		Iron Pan	57	60	3
CORE	1392		476132.556	570072.517	
		Plow Zone	0	15	15

Site	57				
		description	top depth	bottom depth	Thickness
		Turf	15	38	23
		Iron Pan	38	40	2
		Aeolian Deposit	40	80	40
CORE	1393		476129.722	570116.44	
		Plow Zone	0	18	18
		Aeolian Deposit	18	36	18
		Bog	36	40	4
CORE	1394		476271.75	570108.209	
		Plow Zone	0	15	15
		Turf	15	52	37
		Aeolian Deposit	52	80	28
CORE	1395		476273.771	570116.694	
		Plow Zone	0	11	11
		Aeolian Deposit	11	37	26
		Turf	37	40	3
		Aeolian Deposit	40	60	20
		Bog	60	80	20
CORE	1396		476249.88	570098.45	
		Plow Zone	0	14	14
		Aeolian Deposit	14	80	66
CORE	1397		476111.886	570090.58	
		Plow Zone	0	15	15
		Aeolian Deposit	15	65	50
		Rock	65	65	0
CORE	1398		476092.568	570114.049	
		Plow Zone	0	35	35
		Aeolian Deposit	35	80	45
CORE	1399		476072.306	570071.865	
		Plow Zone	0	10	10
		Iron Pan	10	20	10
		Rock	20	20	0
CORE	1400		476051.082	570132.856	
		Plow Zone	0	6	6
		Aeolian Deposit	6	25	19
		Gravel	25	30	5
CORE	1401		476059.507	570199.335	
		Plow Zone	0	15	15

Site	57		description	top depth	bottom depth	Thickness
			Aeolian Deposit	15	40	25
			Rock	40	40	0
CORE	1402	476111.005			570200.985	
			Plow Zone	0	8	8
			Aeolian Deposit	8	40	32
CORE	1403	476110.023			570152.863	
			Plow Zone	0	14	14
			Aeolian Deposit	14	55	41
			Bog	55	80	25
CORE	1404	476153.208			570155.214	
			Plow Zone	0	10	10
			Turf	10	120	110
			Midden	120	220	100
CORE	1405	476154.815			570205.226	
			Plow Zone	0	30	30
			Aeolian Deposit	30	80	50
CORE	1410	476093.192			570013.546	
			Plow Zone	0	20	20
			Aeolian Deposit	20	40	20
			Rock	40	40	0
CORE	1411	476117.835			569965.819	
			Plow Zone	0	13	13
			Aeolian Deposit	13	40	27
			Rock	40	40	0
CORE	1412	476154.264			569982.946	
			Plow Zone	0	20	20
			Rock	20	20	0
CORE	1413	476178.489			569948.302	
			Plow Zone	0	20	20
			Rock	20	20	0
CORE	1414	476144.306			569923.923	
			Plow Zone	0	10	10
			Aeolian Deposit	10	33	23
			Rock	33	33	0
CORE	1415	476207.568			569913.99	
			Plow Zone	0	10	10

Site	57		description	top depth	bottom depth	Thickness
			Aeolian Deposit	10	30	20
			Iron Pan	30	40	10
CORE	1416			476214.874	569958.825	
			Plow Zone	0	15	15
			Rock	15	15	0
CORE	1418			476173.347	569887.646	
			Plow Zone	0	10	10
			Aeolian Deposit	10	65	55
			Rock	65	65	0
CORE	1419			476233.84	569879.459	
			Plow Zone	0	10	10
			Bog	10	40	30
CORE	1420			476237.604	569932.862	
			Plow Zone	0	18	18
			Rock	18	18	0
CORE	1421			476270.797	569898.093	
			Plow Zone	0	10	10
			Aeolian Deposit	10	40	30
CORE	1422			476266.373	569959.458	
			Plow Zone	0	30	30
			Rock	30	30	0
CORE	1423			476318.013	569889.294	
			Top Soil	0	15	15
			Aeolian Deposit	15	30	15
			Bog	30	80	50
CORE	1424			476313.42	569923.03	
			Plow Zone	0	10	10
			Aeolian Deposit	10	21	11
			Bog	21	40	19
CORE	1425			476304.289	569963.418	
			Plow Zone	0	15	15
			Bog	15	40	25
CORE	1426			476363.171	569896.896	
			Top Soil	0	16	16
			Aeolian Deposit	16	48	32
			Clay	48	50	2

Site	57	description	top depth	bottom depth	Thickness
CORE	1427		476349.096	569934.217	
		Plow Zone	0	10	10
		Aeolian Deposit	10	40	30
CORE	1428		476331.065	569968.113	
		Plow Zone	0	10	10
		Aeolian Deposit	10	40	30
		Iron Pan	40	60	20
CORE	1429		476391.237	569902.958	
		Bog	0	40	40
		Clay	40	45	5
		Rock	45	45	0
CORE	1430		476382.028	569945.047	
		Plow Zone	0	10	10
		Aeolian Deposit	10	25	15
		Bog	25	40	15
CORE	1431		476385.473	569944.698	
		Plow Zone	0	10	10
		Aeolian Deposit	10	20	10
		Bog	20	30	10
		Iron Pan	30	40	10
		Rock	40	40	0
CORE	1432		476370.863	569975.893	
		Plow Zone	0	10	10
		Bog	10	40	30
		Rock	40	40	0
CORE	1433		476446.585	569921.754	
		Bog	0	160	160
CORE	1434		476425.452	569959.438	
		Bog	0	80	80
CORE	1435		476405.899	569993.934	
		Plow Zone	0	8	8
		Bog	8	30	22
		Iron Pan	30	40	10
CORE	1436		476417.06	570009.918	
		Rock	0	0	0

Site 57	description	top depth	bottom depth	Thickness
CORE 1437		476392.594	570037.179	
	Bog	0	80	80
CORE 1438		476356.479	570033.553	
	Plow Zone	0	18	18
	Aeolian Deposit	18	40	22
CORE 1439		476381.877	570083.277	
	Bog	0	30	30
	Iron Pan	30	35	5
	Clay	35	60	25
	Rock	60	60	0
CORE 1440		476350.843	570087.213	
	Bog	0	95	95
	Rock	95	95	0
CORE 1441		476350.914	570116.964	
	Top Soil	0	20	20
	Turf	20	35	15
	Iron Pan	35	80	45
CORE 1442		476334.243	570115.681	
	Turf	0	40	40
	Aeolian Deposit	40	80	40
CORE 1443		476354.821	570138.336	
	Plow Zone	0	15	15
	Turf	15	50	35
	Aeolian Deposit	50	80	30
CORE 1444		476340.076	570120.366	
	Plow Zone	0	12	12
	Bog	12	80	68
CORE 1445		476330.115	570119.449	
	Bog	0	12	12
	Turf	12	32	20
	Aeolian Deposit	32	42	10
	Rock	42	42	0
CORE 1446		476332.496	570126.832	
	Turf	0	70	70
	Iron Pan	70	75	5
	Aeolian Deposit	75	80	5

Site 57	description	top depth	bottom depth	Thickness
CORE 1447		476328.657	570160.598	
	Plow Zone	0	10	10
	Aeolian Deposit	10	63	53
	Iron Pan	63	75	12
	Aeolian Deposit	75	111	36
	Clay	111	120	9
CORE 1448		476324.89	570199.506	
	Plow Zone	0	17	17
	Turf	17	35	18
	Aeolian Deposit	35	40	5
CORE 1449		476352.526	570198.514	
	Top Soil	0	10	10
	Aeolian Deposit	10	40	30
	Sand	40	42	2
	Aeolian Deposit	42	60	18
	Gravel	60	60	0
CORE 1450		476344.641	570248.07	
	Aeolian Deposit	0	35	35
	Gravel	35	35	0
CORE 1451		476310.542	570254.285	
	Top Soil	0	20	20
	Aeolian Deposit	20	40	20
	Bog	40	50	10
	Iron Pan	50	80	30
CORE 1452		476323.113	570272.372	
	Plow Zone	0	10	10
	Aeolian Deposit	10	55	45
	Iron Pan	55	70	15
	Aeolian Deposit	70	80	10
CORE 1453		476333.522	570278.125	
	Plow Zone	0	17	17
	Aeolian Deposit	17	55	38
	Rock	55	55	0
CORE 1454		476331.494	570274.476	
	Top Soil	0	20	20
	Aeolian Deposit	20	80	60

Site	57	description	top depth	bottom depth	Thickness
CORE	1455		476301.157	570280.881	
		Plow Zone	0	22	22
		Aeolian Deposit	22	80	58
CORE	1456		476036.284	570227.006	
		Plow Zone	0	15	15
		Rock	15	15	0
CORE	1457		476101.011	570250.947	
		Plow Zone	0	25	25
		Aeolian Deposit	25	80	55
		Iron Pan	80	92	12
		Rock	92	92	0
CORE	1458		476062.444	570263.268	
		Plow Zone	0	30	30
		Rock	30	30	0
CORE	1459		476109.096	570259.941	
		Plow Zone	0	15	15
		Aeolian Deposit	15	55	40
		Iron Pan	55	60	5
		Aeolian Deposit	60	70	10
		Rock	70	70	0
CORE	1460		476099.223	570258.134	
		Turf	0	50	50
		Aeolian Deposit	50	80	30
		Turf	80	100	20
		Rock	100	100	0
CORE	1461		476104.39	570255.371	
		Plow Zone	0	7	7
		Low Density Cultural	7	20	13
		Turf	20	35	15
		Iron Pan	35	42	7
		Rock	42	42	0
CORE	1462		476108.334	570252.652	
		Plow Zone	0	30	30
		Aeolian Deposit	30	50	20
		Turf	50	67	17
		Aeolian Deposit	67	80	13

Site 57	description	top depth	bottom depth	Thickness
CORE 1463		476123.237	570291.499	
	Plow Zone	0	10	10
	Aeolian Deposit	10	42	32
	Rock	42	42	0
CORE 1464		476103.502	570250.499	
	Turf	0	30	30
	Aeolian Deposit	30	80	50
CORE 1465		476150.916	570256.254	
	Plow Zone	0	10	10
	Turf	10	40	30
	Iron Pan	40	50	10
	Aeolian Deposit	50	60	10
	Iron Pan	60	70	10
	Aeolian Deposit	70	80	10
	Rock	80	80	0
CORE 1466		476191.823	570261.958	
	Plow Zone	0	20	20
	Turf	20	47	27
	Aeolian Deposit	47	73	26
CORE 1467		476193.288	570220.915	
	Plow Zone	0	30	30
	Aeolian Deposit	30	70	40
	Bog	70	80	10
CORE 1468		476233.965	570270.655	
	Plow Zone	0	10	10
	Aeolian Deposit	10	42	32
	Rock	42	42	0
CORE 1469		476242.921	570230.825	
	Plow Zone	0	18	18
	Aeolian Deposit	18	60	42
	Iron Pan	60	70	10
CORE 1470		476274.17	570277.658	
	Plow Zone	0	20	20
	Aeolian Deposit	20	42	22
	Rock	42	42	0
CORE 1471		476282.452	570238.914	
	Plow Zone	0	25	25

Site	57	description	top depth	bottom depth	Thickness
		Aeolian Deposit	25	35	10
		Rock	35	35	0
CORE	1472		476289.716	570202.639	
		Plow Zone	0	20	20
		Aeolian Deposit	20	70	50
		Bog	70	80	10
CORE	1473		476254.401	570191.604	
		Plow Zone	0	10	10
		Aeolian Deposit	10	20	10
		Turf	20	30	10
		Aeolian Deposit	30	65	35
		Iron Pan	65	80	15
CORE	1474		476258.215	570190.291	
		Plow Zone	0	14	14
		Turf	14	24	10
		Midden	24	35	11
		Low Density Cultural	35	40	5
		Turf	40	60	20
		Iron Pan	60	80	20
CORE	1475		476249.206	570190.344	
		Plow Zone	0	15	15
		Turf	15	60	45
		Clay	60	70	10
		Gravel	70	80	10
CORE	1476		476269.086	570191.367	
		Plow Zone	0	15	15
		Turf	15	60	45
		Rock	60	60	0
CORE	1477		476270.079	570197.751	
		Plow Zone	0	10	10
		Turf	10	48	38
		Aeolian Deposit	52	80	28
		Low Density Cultural	48	52	4
CORE	1478		476263.233	570192.776	
		Plow Zone	0	10	10
		Turf	10	50	40
		Bog	50	65	15
		Sand	65	80	15

Site	57	description	top depth	bottom depth	Thickness
CORE	1479		476270.267	570189.76	
		Plow Zone	0	10	10
		Aeolian Deposit	10	60	50
		Iron Pan	60	80	20
CORE	1480		476273.085	570193.065	
		Plow Zone	0	15	15
		Turf	15	82	67
		Rock	82	82	0
CORE	1481		476215.928	570184.821	
		Plow Zone	0	15	15
		Low Density Cultural	15	35	20
		Aeolian Deposit	35	80	45
CORE	1482		476156.598	570171.691	
		Plow Zone	0	15	15
		Midden	15	40	25
		Turf	40	100	60
		Aeolian Deposit	100	120	20
CORE	1501		476194.92	569840.837	
		Plow Zone	0	12	12
		Turf	12	40	28
		Iron Pan	40	40	0
CORE	1502		476214.546	569809.176	
		Plow Zone	0	10	10
		Aeolian Deposit	10	32	22
		Iron Pan	32	35	3
		Aeolian Deposit	35	40	5
CORE	1503		476237.799	569775.755	
		Bog	0	20	20
		Iron Pan	20	21	1
		Bog	21	37	16
		Iron Pan	37	40	3
		Bog	40	70	30
		Silt	70	80	10
CORE	1504		476283.079	569781.354	
		Plow Zone	0	10	10
		Aeolian Deposit	10	45	35
		Rock	45	45	0

Site 57	description	top depth	bottom depth	Thickness
CORE 1505		476277.062	569825.824	
	Plow Zone	0	15	15
	Aeolian Deposit	15	50	35
	Rock	50	50	0
CORE 1506		476260.416	569860.5	
	Plow Zone	0	15	15
	Turf	15	35	20
	Aeolian Deposit	35	80	45
CORE 1507		476300.487	569884.876	
	Plow Zone	0	12	12
	Turf	12	36	24
	Aeolian Deposit	36	80	44
CORE 1508		476315.692	569845.591	
	Plow Zone	0	25	25
	Aeolian Deposit	25	40	15
	Turf	40	65	25
	Aeolian Deposit	65	78	13
	Rock	78	78	0
CORE 1509		476329.193	569804.782	
	Plow Zone	0	15	15
	Aeolian Deposit	15	70	55
	Rock	70	70	0
CORE 1510		476311.787	569843.316	
	Plow Zone	0	15	15
	Aeolian Deposit	15	40	25
CORE 1511		476262.564	569857.805	
	Plow Zone	0	20	20
	Turf	20	40	20
	Aeolian Deposit	40	80	40
CORE 1512		476316.866	569841.79	
	Plow Zone	0	10	10
	Turf	10	30	20
	Aeolian Deposit	30	40	10
CORE 1513		476274.74	569764.259	
	Plow Zone	0	5	5
	Iron Pan	5	35	30
	Rock	35	35	0

Site	57				
		description	top depth	bottom depth	Thickness
CORE	1514		476320.975	569776.563	
		Plow Zone	0	12	12
		Aeolian Deposit	12	80	68

SASS 2009

Site 57

Sample 1 [107]
 Vol 2 Light Fraction grams 1.69 Heavy Fraction grams 16.52

Analysist CFM Date Analyzed 9/6/2009 Content %
 Other present: Coal in Heavy fraction Bone 30
 Rock 30
 Slag 30

Midden just below 1300

Family	Count	Charred
Ericaceae Empetrum	3	Yes
Cyperaceae	1	
Caryophyllaceae Spergula	278	
Caryophyllaceae Silene	10	
Unidentified	4	

Sample 2 [107]
 Vol 2 Light Fraction grams 1.65 Heavy Fraction grams 27.55

Analysist AA Date Analyzed 10/27/2009 Content %
 Other present: Insect parts: 8 Bone 25
 Charcoal 5
 Dung 15
 Rock 50

Midden just above 1104

Family	Count	Charred
Cyperaceae	2	Yes
Cyperaceae	2	
Caryophyllaceae	10	Yes
Caryophyllaceae	212	
Violaceae Viola	6	
Poaceae Wild	2	
Poaceae Wild	1	Yes

SASS 2009

Site 57

Sample 3 [108]
 Vol 2 Light Fraction grams 1.03 Heavy Fraction grams 19.15

Analysist CFM Date Analyzed 10/26/2009 Content %

Other present: Notes: Caryophyllaceae spergula: estimated count based on 1/4 sample of 0.5mm light fraction sample; estimated count added to actual counts from rest of light and heavy fractions. Contains bone fragments, wood fragments and rock in heavy fraction.

Bone
 Rock
 Wood

Midden just below 1104

Family	Count	Charred
Caryophyllaceae Spergula	573	Yes
Caryophyllaceae Stellaria	1	Yes
Caryophyllaceae Silene	19	Yes
Ericaceae Empetrum	3	Yes
Polygonaceae	12	Yes
Cyperaceae	4	Yes
Poaceae	2	
Fabaceae	1	Yes
Unidentified	3	Yes
Cupressaceae Juniperus	1	Yes

Sample 4 [108]
 Vol 2 Light Fraction grams 1.04 Heavy Fraction grams 20.56

Analysist CFM Date Analyzed 10/15/2009 Content %

Other present: Note: Spergula count is estimated based on count of 263 seeds in 0.5 of the 0.5mm fraction sample plus actual counts from Heavy fraction (8) and actual counts from 2mm (15, 1mm (39) in light fraction. Sample contains wood and bone fragments (uncharred) in heavy fraction.

Bone 5
 Rock 90
 Wood 1

Midden just above "V~1000"

Family	Count	Charred
Caryophyllaceae Spergula	1114	
Caryophyllaceae Silene	10	
Caryophyllaceae Stellaria	2	
Cyperaceae	1	
Asteraceae Taraxacum officinale	2	
Poaceae Wild	1	
Ericaceae Empetrum	6	
Ericaceae Vaccinium	1	

SASS 2009

Site 57

Polygonaceae

2

Sample 6 [109]

Vol 2

Light Fraction grams 2.13

Heavy Fraction grams 8.28

Analysist CFM

Date Analyzed 9/16/2009

Content

%

Other present: Spergula estimated based on 522 seeds counted in 1/4 sample of 0.5mm fraction at 0.11 g

Bone

1

Rock

99

1 bone fragment

1 hordeum removed for AMS dating

Below "1000" above LNS/950

Family

Count Charred

Caryophyllaceae Spergula

2088 Yes

Undetermined

1 Yes

Polygonaceae

1

Poaceae Hordeum

2 Yes

Ericaceae Empetrum

4 Yes

Poaceae Wild

2 Yes

Caryophyllaceae Silene

3 Yes

Sample 7 [950/LNS]

Vol 2

Light Fraction grams 0.89

Heavy Fraction grams 2.23

Analysist AA

Date Analyzed 10/23/2009

Content

%

Other present:

Rock

100

LNS - no midden

Family

Count Charred

Caryophyllaceae

1

SITE 57 **FIND** 1 **AREA** A **CONTEXT** 102

MATERIAL TYPE Ceramic **OBJECT TYPE** Sherd **DESCRIPTION** Ceramic Brown ware **ATTENTION** N

DATE 7/14/2009 **ID** ELB **UNIQUE_ID** 57A102F1 **Conservation Date** 7/15/2009 **Conservator** Gregory Bailey

Material Characteristics	Condition	Storage Location	Treatment
Brown salt-glazed low-fire ceramic fragment, 24 x 23 x 5mm, 5.6g.	Dirt present on all surfaces.	SASS Other Sites 2009 Box	Cleaned mechanically using bamboo skewers and soft nylon bristle brush. Glazed surfaces washed with deionized water rolled on cotton swabs. Returned to original artifact bag for temporary storage.

Storage Recommendations

Other Notes

Image



SITE 57 **FIND** 2 **AREA** A **CONTEXT** 108

MATERIAL TYPE Metal **OBJECT TYPE** Iron Nail? **DESCRIPTION** Iron nail or rivet **ATTENTION** Y

DATE 7/14/2009 **ID** ELB **UNIQUE_ID** 57A108F2 **Conservation Date** 7/15/2009 **Conservator** Gregory Bailey

Material Characteristics
Iron nail, 47 x 21 x 13mm,
8.8g.

Condition
Dirt and corrosion present
on all surfaces.

Storage Location
SASS Other Sites 2009
Box Metals Container

Treatment
Cleaned mechanically using
bamboo skewers and soft nylon
bristle brush. Rinsed in running
taped water, wrapped in
aluminum foil and immersed in
galvanic bath (5% by weight
sodium carbonate in deionized
water). Object was removed
after 5 days, rinsed in running
water, and gently scrubbed with
a nylon bristle brush. Object
was then soaked in deionized
water with a low concentration
of tannic acid (<1% by weight)
for 5 hours. Object was
removed and left to air dry for
24 hours. The object was then
treated with three applications
of tannic acid solution (10%
tannic acid by weight in a 50/50
mixture of water and isopropyl
alcohol), with three hours
between applications. Object
was left to dry for a further 24
hours.

Storage Recommendations

Other Notes

Image

