

Hematite Decommissioning Project	Procedure: HDP-PR-FSS-701, Final Status Survey Plan Development		
		Revision: 10	Appendix P-4, Page 1 of 1

APPENDIX P-4

FSS SAMPLE & MEASUREMENT LOCATIONS & COORDINATES

Survey Area:	LSA 10	Description:	Burial Pits Open Land Area
Survey Unit:	08	Description:	North Eastern Survey Unit in "Area 1"
Survey Type:	FSS	Classification:	Class 1

Measurement or Sample ID	Surface or CSM	Type	Start Elevation*	End Elevation*	Northing** (Y Axis)	Easting** (X Axis)	Remarks / Notes
L100801BRS00	Uniform	S	430	427.5	827409.7	865391.0	Root Zone Composite
L100802BES00	Uniform	S	427.5	427.0	827409.7	865391.0	Excavation 6-inch grab
L100803BES00	Uniform	S	428	427.5	827412.8	865379.4	Excavation 6-inch grab
L100804BRS00	Uniform	S	428	426.5	827421.3	865387.9	Root Zone Composite
L100805BES00	Uniform	S	426.5	426.0	827421.3	865387.9	Excavation 6-inch grab
L100806BES00	Uniform	S	428	427.5	827424.4	865376.3	Excavation 6-inch grab
L100807BRS00	Uniform	S	426	421.5	827432.9	865384.8	Root Zone Composite
L100808BES00	Uniform	S	421.5	421.0	827432.9	865384.8	Excavation 6-inch grab
L100809BES00	Uniform	S	424.0	423.5	827427.5	865364.7	Excavation 6-inch grab
L100810BES00	Uniform	S	428.0	427.5	827436.0	865373.2	Excavation 6-inch grab
L100811BRS00	Uniform	S	426.0	422.5	827444.5	865381.7	Root Zone Composite
L100812BES00	Uniform	S	422.5	422.0	827444.5	865381.7	Excavation 6-inch grab
L100813BES00	Uniform	S	428.0	427.5	827447.6	865370.1	Excavation 6-inch grab
L100814BRS00	Uniform	S	426.0	423.5	827456.1	865378.6	Root Zone Composite
L100807BRQ00	Uniform	Q	426.0	421.5	827432.9	865384.8	Root Zone Composite
L100816BUB00	Uniform	B	428.0	427.5	827406.1	865383.8	Biased 6-inch grab
L100817BUB00	Uniform	B	427.5	427.0	827406.1	865383.8	Biased 6-inch grab
L100818BUB00	Uniform	B	428.0	427.5	827408.3	865384.4	Biased 6-inch grab
L100819BUB00	Uniform	B	427.5	427.0	827408.3	865384.4	Biased 6-inch grab
L100820BUB00	Uniform	B	426.0	425.5	827416.2	865385.9	Biased 6-inch grab
L100821BUB00	Uniform	B	425.5	425.0	827416.2	865385.9	Biased 6-inch grab
L100822BUB00	Uniform	B	426.0	425.5	827417.2	865390.4	Biased 6-inch grab
L100823BUB00	Uniform	B	425.5	425.0	827417.2	865390.4	Biased 6-inch grab
L100824BUB00	Uniform	B	424.0	423.5	827418.2	865377.0	Biased 6-inch grab
L100825BUB00	Uniform	B	423.5	423.0	827418.2	865377.0	Biased 6-inch grab
L100826BUB00	Uniform	B	426.0	425.5	827419.4	865384.0	Biased 6-inch grab
L100827BUB00	Uniform	B	425.5	425.0	827419.4	865384.0	Biased 6-inch grab
L100828BUB00	Uniform	B	428.0	427.5	827406.8	865384.2	Biased 6-inch grab

Green shaded samples are the samples at each sample location, for use in WRS test.

*Elevations are in feet above mean sea level.

** Missouri - East State Plane Coordinates [North American Datum (NAD) 1983]

Surface: Floor = F; Wall = W; Ceiling = C; Roof = R

CSM: Three-Layer (Surface-Root-Excavation) or Uniform DCGLs used

Type: Systematic = S, Biased = B; QC = Q; Investigation = I

Quality Record

HDP-PR-FSS-721 Final Status Survey Data Evaluation
Steps 8.3 Preliminary Data Review and 8.4 Calculation of the Sum-of-Fractions (SOF)

Evaluate Final Status Survey Data: LSA-10-08																																
Sample ID	Sample Depth (ft)	Type (Systematic Bias, QC)	TestAmerica Analytical Results Step 8.3.2																													
			Ra-226						Tc-99				Th-232				Inferred U-234				U-235				U-238							
			Result	Uncertainty	MC Result	Qualifier	Corrected Result	Result	Uncertainty	MC Result	Qualifier	Result	Uncertainty	MC Result	Qualifier	Result	Uncertainty	MC Result	Qualifier	Result	Uncertainty	MC Result	Qualifier	Result	Uncertainty	MC Result	Qualifier	Result	Uncertainty	MC Result	Qualifier	
L100801BR500	2.50	S	0.973	0.142	0.068	N/A	-0.097	0.000	0.591	0.591	0.065	0.223		0.952	0.161	0.091	N/A	-0.048	0.000	28.073	NA	NA	NA	1.550	0.308	0.281		5.970	0.838	1.130		
L100802BE500	5.00	S	1.050	0.160	0.077	N/A	-0.020	0.000	0.295	0.295	0.058	0.226		1.010	0.175	0.157	N/A	0.010	0.010	3.108	NA	NA	NA	0.165	0.148	0.253	U	1.580	0.638	0.822		
L100803BE500	5.50	S	0.978	0.161	0.088	N/A	-0.092	0.000	0.255	0.255	0.061	0.220		1.050	0.173	0.113	N/A	0.050	0.050	6.776	NA	NA	NA	0.373	0.189	0.229		1.790	0.751	0.928		
L100804BR500	3.50	S	0.943	0.132	0.053	N/A	-0.127	0.000	0.188	0.188	0.075	0.224	U	0.799	0.161	0.098	N/A	-0.201	0.000	2.065	NA	NA	NA	0.109	0.128	0.215	U	1.120	0.623	0.800		
L100805BE500	5.00	S	0.993	0.144	0.067	N/A	-0.077	0.000	0.278	0.278	0.071	0.231		0.869	0.135	0.101	N/A	-0.131	0.000	2.430	NA	NA	NA	0.129	0.118	0.182	U	1.240	0.651	0.806		
L100806BE500	5.50	S	1.050	0.151	0.061	N/A	-0.020	0.000	0.188	0.188	0.132	0.221	U	0.829	0.136	0.104	N/A	-0.171	0.000	0.699	NA	NA	NA	0.029	0.127	0.214	U	1.310	0.640	0.786		
L100807BR500	0.50	S	0.923	0.132	0.059	N/A	-0.147	0.000	0.194	0.194	0.136	0.252	U	0.770	0.125	0.072	N/A	-0.230	0.000	0.968	NA	NA	NA	0.050	0.104	0.182	U	0.658	0.430	0.750		
L100808BE500	5.00	S	1.080	0.148	0.061	N/A	0.010	0.010	0.030	0.030	0.087	0.241	U	1.010	0.151	0.075	N/A	0.010	0.010	0.782	NA	NA	NA	0.039	0.070	0.231	U	0.737	0.321	0.797	U	
L100809BE500	8.50	S	0.896	0.134	0.066	N/A	-0.174	0.000	0.695	0.695	0.166	0.218		0.842	0.150	0.102	N/A	-0.168	0.000	1.758	NA	NA	NA	0.092	0.130	0.205	U	1.120	0.634	0.789		
L100810BE500	5.50	S	0.854	0.129	0.058	N/A	-0.216	0.000	0.266	0.266	0.091	0.215		0.833	0.146	0.099	N/A	-0.167	0.000	1.844	NA	NA	NA	0.095	0.129	0.223	U	1.300	0.574	0.730		
L100811BR500	1.50	S	1.100	0.156	0.062	N/A	0.030	0.030	0.030	0.030	0.074	0.223	U	0.808	0.123	0.095	N/A	-0.192	0.000	1.798	NA	NA	NA	0.093	0.103	0.151	U	1.280	0.644	0.801		
L100812BE500	0.00	S	1.020	0.165	0.087	N/A	-0.050	0.000	0.037	0.037	0.075	0.246	U	0.995	0.168	0.068	N/A	-0.005	0.000	2.166	NA	NA	NA	0.115	0.183	0.273	U	1.140	0.580	0.794		
L100813BE500	5.50	MS	1.040	0.156	0.073	N/A	-0.030	0.000	0.250	0.250	0.060	0.217		0.936	0.167	0.099	N/A	-0.064	0.000	1.997	NA	NA	NA	0.106	0.132	0.218	U	1.050	0.523	0.712		
L100814BR500	2.50	S	0.895	0.145	0.070	N/A	-0.175	0.000	0.444	0.444	0.095	0.218		0.741	0.141	0.089	N/A	-0.259	0.000	2.045	NA	NA	NA	0.110	0.144	0.236	U	0.886	0.601	0.763		
L100807BR500	0.50	Q	0.907	0.151	0.078	N/A	-0.163	0.000	0.276	0.276	0.038	0.237		0.817	0.139	0.088	N/A	-0.183	0.000	2.402	NA	NA	NA	0.132	0.144	0.267	U	0.671	0.283	0.757	U	
L100816BU800	5.00	B	0.774	0.116	0.053	N/A	-0.296	0.000	0.598	0.598	0.068	0.184		0.758	0.120	0.094	N/A	-0.244	0.000	13.966	NA	NA	NA	0.773	0.176	0.214		2.500	0.730	0.792		
L100817BU800	6.00	B	0.690	0.103	0.053	N/A	-0.380	0.000	0.431	0.431	0.277	0.265	U	0.663	0.112	0.078	N/A	-0.337	0.000	7.375	NA	NA	NA	0.407	0.132	0.168		1.660	0.643	0.734		
L100818BU800	5.50	B	1.040	0.160	0.079	N/A	-0.030	0.000	0.569	0.569	0.169	0.312	U	0.986	0.165	0.108	N/A	-0.014	0.000	9.290	NA	NA	NA	0.510	0.165	0.203		2.710	0.854	0.941		
L100819BU800	6.00	B	1.110	0.170	0.108	N/A	0.040	0.040	0.231	0.231	0.263	0.321	U	1.390	0.251	0.115	N/A	0.390	0.390	7.169	NA	NA	NA	0.388	0.210	0.326		2.940	1.030	1.160		
L100820BU800	0.50	B	1.180	0.189	0.093	N/A	0.090	0.090	0.272	0.276	0.044	0.329	U	1.100	0.188	0.165	N/A	0.100	0.100	4.524	NA	NA	NA	0.247	0.155	0.182		1.560	0.877	1.070		
L100821BU800	1.00	B	0.964	0.141	0.065	N/A	-0.195	0.000	0.222	0.222	0.212	0.292	U	1.120	0.165	0.128	N/A	0.120	0.120	2.713	NA	NA	NA	0.144	0.149	0.226	U	1.450	0.720	0.892		
L100822BU800	0.50	B	1.030	0.155	0.091	N/A	-0.040	0.000	0.431	0.431	0.215	0.280	U	1.100	0.213	0.143	N/A	0.100	0.100	3.681	NA	NA	NA	0.193	0.137	0.216	U	2.150	0.795	0.919		
L100823BU800	1.00	B	1.070	0.170	0.079	N/A	0.000	0.000	0.429	0.429	0.139	0.312	U	0.861	0.199	0.164	N/A	-0.139	0.000	3.751	NA	NA	NA	0.203	0.165	0.236	U	1.520	0.748	0.943		
L100824BU800	8.50	B	1.050	0.155	0.074	N/A	-0.020	0.000	0.336	0.336	0.210	0.307	U	1.120	0.179	0.095	N/A	0.120	0.120	7.421	NA	NA	NA	0.409	0.152	0.195		1.860	0.794	0.943		
L100825BU800	9.00	B	1.020	0.153	0.075	N/A	-0.050	0.000	0.379	0.379	0.339	0.373	U	1.000	0.168	0.086	N/A	0.000	0.000	3.254	NA	NA	NA	0.175	0.143	0.242	U	1.450	0.717	0.882		
L100826BU800	1.50	B	1.010	0.158	0.082	N/A	-0.060	0.000	0.100	0.100	0.060	0.250	U	1.150	0.195	0.087	N/A	0.150	0.150	1.736	NA	NA	NA	0.090	0.159	0.247	U	1.220	0.688	0.900		
L100827BU800	2.00	B	0.917	0.134	0.063	N/A	-0.153	0.000	0.251	0.251	0.169	0.301	U	1.020	0.172	0.090	N/A	0.020	0.020	1.848	NA	NA	NA	0.087	0.131	0.219	U	0.927	0.302	0.773		
L100828BU800	5.50	B	0.768	0.128	0.063	N/A	-0.302	0.000	0.504	0.504	0.377	0.331	U	0.662	0.128	0.127	N/A	-0.338	0.000	1.282	NA	NA	NA	0.065	0.131	0.221	U	1.000	0.528	0.689		
Systematic Minimum			0.000						0.030				0.000				0.699				0.029				0.658							
Systematic Maximum			0.030						0.695				0.050				28.073				1.550				5.970							
Systematic Mean			0.003						0.266				0.005				4.037				0.218				1.513							
Systematic Median			0.000						0.253				0.000				2.021				0.108				1.190							
Systematic Standard Deviation			0.008						0.188				0.013				7.075				0.392				1.317							
Step 8.3.2																																
Step 8.4.2			With ingrowth, use Ra226 bkg =						1.07								Th232 bkg =				1.9											
NOTES:																																
Gross results in units of pCi/g.																																
** Background with ingrowth (1.07 pCi/g) subtracted from gross result.																																
U Qualifier: Result is less than the sample detection limit.																																
All uncertainty values are reported at the 2-sigma confidence level.																																

HDP-PR-FSS-721 Final Status Survey Data Evaluation
Steps 8.3 Preliminary Data Review and 8.4 Calculation of the Sum-of-Fractions (SOF)

Sample ID	Sample Depth (ft)	Type (S=Soil, B=Backfill, G=Groundwater)	Enrichment (%)	SOF Step 8.4.3	Root Stratum SOF Verification (Inaccuracy defined as backfilled only Step 8.4.4.1)				root count	enrichment count	verification count
					Is Sample in the Root Stratum?	Is Sample in ROOT Stratum?	Is Sample in ROOT Stratum?	Is Sample in ROOT Stratum?			
L100801BRS00	2.50	S	3.9	0.23	ROOT	good			1		
L100802BES00	5.00	S	1.6	0.05	EXCAVATION	good				1	
L100803BES00	5.50	S	3.2	0.09	EXCAVATION	good				1	
L100804BRS00	3.50	S	1.5	0.03	ROOT	good			1		
L100805BES00	5.00	S	1.6	0.03	EXCAVATION	good				1	
L100806BES00	5.50	S	0.4	0.02	EXCAVATION	good				1	
L100807BRS00	0.50	S	1.2	0.02	ROOT	good			1		
L100808BES00	5.00	S	0.9	0.02	EXCAVATION	good				1	
L100809BES00	8.50	S	1.3	0.05	EXCAVATION	good				1	
L100810BES00	5.50	S	1.2	0.03	EXCAVATION	good				1	
L100811BRS00	1.50	S	1.2	0.04	ROOT	good			1		
L100812BES00	5.00	S	1.6	0.02	EXCAVATION	good				1	
L100813BES00	5.50	S	1.6	0.03	EXCAVATION	good				1	
L100814BRS00	2.50	S	1.9	0.04	EXCAVATION	good			1		
L100807BRS00	0.50	G	3.0	0.03	ROOT	good					
L100816BUB00	5.50	B	4.6	0.13	good						
L100817BUB00	6.00	B	3.7	0.07	good						
L100818BUB00	5.50	B	2.9	0.10	good						
L100819BUB00	6.00	B	2.1	0.29	good						
L100820BUB00	0.50	B	2.6	0.15	good						
L100821BUB00	1.00	B	1.6	0.09	good						
L100822BUB00	0.50	B	1.4	0.10	good						
L100823BUB00	1.00	B	2.1	0.05	good						
L100824BUB00	8.50	B	3.4	0.13	good						
L100825BUB00	9.00	B	1.9	0.04	good						
L100826BUB00	1.50	B	1.2	0.10	good						
L100827BUB00	2.00	B	1.5	0.04	good						
L100828BUB00	5.50	B	1.1	0.03	good						
				2.0	0.02						
				0.23							
				0.05							
				0.03							
				0.06							
				Average Enrichment (%)							
				14							
				count tot							

HDP-PR-FSS-721 Final Status Survey Data Evaluation
Steps 8.3 Preliminary Data Review and 8.4 Calculation of the Sum-of-Fractions (SOF)

[illegible]

HDP-PR-FSS-721 Final Status Survey Data Evaluation

Step 8.5 Performance of Statistical Tests

WRS TEST					
SAMPLE ID	AREA (Reference, Survey Unit)	Gross SOF ($X_{i,ref}$, $Y_{i,SU}$) Step 8.5.3a	ADJUSTED SOF (Z_i) Step 8.5.3b	RANKS Step 8.5.3d	REFERENCE AREA RANKS
9574-SS-140910-01-01	Reference	1.19	2.188	38	38
9574-SS-140910-01-02	Reference	0.76	1.757	16	16
9574-SS-140910-01-03	Reference	1.02	2.023	25	25
9574-SS-140910-01-04	Reference	1.02	2.018	24	24
9574-SS-140910-01-05	Reference	1.00	2.002	21	21
9574-SS-140910-01-07	Reference	0.87	1.873	18	18
9574-SS-140910-01-08	Reference	1.04	2.040	28	28
9574-SS-140910-01-09	Reference	0.96	1.959	20	20
9574-SS-140910-01-10	Reference	1.20	2.204	39	39
9574-SS-140910-01-11	Reference	1.01	2.007	23	23
9574-SS-140910-01-12	Reference	1.22	2.223	40	40
9574-SS-140910-01-13	Reference	1.03	2.035	27	27
9574-SS-140910-01-14	Reference	1.00	2.005	22	22
9574-SS-140910-01-15	Reference	0.86	1.865	17	17
9574-SS-140910-01-16	Reference	1.24	2.238	42	42
9574-SS-140910-01-17	Reference	1.19	2.185	37	37
9574-SS-140910-01-18	Reference	1.31	2.310	44	44
9574-SS-140910-01-20	Reference	1.18	2.179	35	35
9574-SS-140910-01-21	Reference	1.06	2.064	30	30
9574-SS-140910-01-22	Reference	1.10	2.101	31	31
9574-SS-140910-01-23	Reference	1.29	2.293	43	43
9574-SS-140910-01-24	Reference	1.34	2.339	45	45
9574-SS-140910-01-25	Reference	1.15	2.154	34	34
9574-SS-140910-01-26	Reference	1.18	2.182	36	36
9574-SS-140910-01-27	Reference	1.23	2.227	41	41
9574-SS-140910-01-28	Reference	1.38	2.380	46	46
9574-SS-140910-01-29	Reference	1.05	2.055	29	29
9574-SS-140910-01-30	Reference	0.94	1.941	19	19
9574-SS-140910-01-31	Reference	1.12	2.119	32	32
9574-SS-140910-01-32	Reference	1.15	2.152	33	33
9574-SS-140910-01-33	Reference	1.03	2.028	26	26
9574-SS-140910-01-34	Reference	0.44	1.443	15	15
L100801BRS00	Survey Unit	1.22	1.221	14	0
L100802BES00	Survey Unit	1.10	1.098	12	0
L100803BES00	Survey Unit	1.10	1.102	13	0
L100804BRS00	Survey Unit	0.92	0.922	4	0
L100805BES00	Survey Unit	0.99	0.990	7	0
L100806BES00	Survey Unit	0.99	0.987	6	0
L100807BRS00	Survey Unit	0.89	0.888	2	0
L100808BES00	Survey Unit	1.08	1.084	11	0
L100809BES00	Survey Unit	0.94	0.938	5	0
L100810BES00	Survey Unit	0.90	0.896	3	0
L100811BRS00	Survey Unit	1.00	1.003	8	0
L100812BES00	Survey Unit	1.06	1.056	10	0
L100813BES00	Survey Unit	1.04	1.044	9	0
L100814BRS00	Survey Unit	0.88	0.877	1	0
Rank Sums				1081	976
# Reference Area Measurements				m	32
# Survey Unit Measurements				n	14
Total Number of Measurements Step 8.5.3c				N	46
(1- α) percentile of a standard normal distribution (MARSSIM Pg. I-10)				z	1.645
WRS Critical Value (MARSSIM Pg. I-10, Eq. I.1)				CV	821

TEST: **PASS** Step 8.5.3f

HDP-PR-FSS-701 Final Status Survey Plan Development

Appendix B.1 Step 8 Calculate the Number of Samples in the Statistical Population

Uniform DCGL Criteria Evaluation	
N/2 Value Verification	
Isotope(s)	SOF (Ra/Tc/Th/Iso U)
St. Dev.	0.06
DCGL _{SOF}	1
LBGR (Mean)	0.05
Shift	0.95
Relative Shift (Δ/σ)	17.03
MARSSIM Table 5.1 (P_r)	1.000000
N	12
N + 20%	14.4
N/2	8
FSS N/2	10
Verification Check	SUFFICIENT MEASUREMENTS
"N/2" Corresponds to the number of survey unit measurement locations required for the WRS Test	

MARSSIM Table 5.1

Δ/σ	P_r
0.1	0.528182
0.2	0.556223
0.3	0.583985
0.4	0.611335
0.5	0.638143
0.6	0.664290
0.7	0.689665
0.8	0.714167
0.9	0.737710
1.0	0.760217
1.1	0.781627
1.2	0.801892
1.3	0.820978
1.4	0.838864
1.5	0.855541
1.6	0.871014
1.7	0.885299
1.8	0.898420
1.9	0.910413
2.0	0.921319
2.25	0.944167
2.5	0.961428
2.75	0.974067
3.0	0.983039
3.5	0.993329
4.0	0.997658
4.01	1.000000

MARSSIM Table 5.2, $\alpha = 0.05$, $\beta = 0.10$

α (or β)	$Z_{1-\alpha}$ (or $Z_{1-\beta}$)
0.005	2.576
0.01	2.326
0.015	2.241
0.025	1.960
0.05	1.645
0.10	1.282
0.15	1.036
0.2	0.842
0.25	0.674
0.30	0.524

α
 β

Hematite Decommissioning Project	Procedure: HDP-PR-FSS-703, Final Status Survey Quality Control											
								Revision: 2		Page 1 of 1		

FORM HDP-PR-FSS-703-1 FIELD DUPLICATE SAMPLE ASSESSMENT												
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Survey Unit No.:	LSA 10-08				Survey Unit Description:	Burial Pits Open Land Area South Eastern Survey Unit in "Area 9"						
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Sample ID	Field Duplicate Sample ID	Radionuclide	Sample (pCi/g)		Field Duplicate Sample (pCi/g)		Average Activity (\bar{x}) (pCi/g)	Nuclide DCGL (pCi/g)	Statistic ²	Warning Limit	Control Limit	Statistic Exceeds Limit? (Y/N)
			Activity (x_i)	MDC	Activity (x_i)	MDC						
L100807BRS00	L100807BRQ00	Ra-226	0.923	0.0591	0.907	0.0783	0.915	1.9	0.016	0.269	0.403	N
L100807BRS00	L100807BRQ00	Tc-99	0.194	0.252	0.276	0.237	0.235	25.1	NA	3.552	5.321	NA
L100807BRS00	L100807BRQ00	Th-232	0.77	0.0715	0.817	0.0976	0.794	2.0	0.047	0.283	0.424	N
L100807BRS00	L100807BRQ00	U-234 ¹	0.968	N/A	2.402	N/A	1.685	195.4	1.434	27.649	41.425	N
L100807BRS00	L100807BRQ00	U-235	0.0499	0.182	0.132	0.257	0.091	51.6	NA	7.301	10.939	NA
L100807BRS00	L100807BRQ00	U-238	0.658	0.606	0.671	0.757	0.665	168.8	NA	23.885	35.786	NA

Comments:

1. U-234 is inferred, no MDC available.

2. Duplicate assessment is not necessary if the result of either sample is < MDC.

Performed by: _____

Date: _____

Reviewed by: _____

Date: _____

Quality Record

LSA 10-08 Sys SOF

0.2

0.0

0.1

0.0

0.0

0.0

0.0

0.0

0.0

0.0

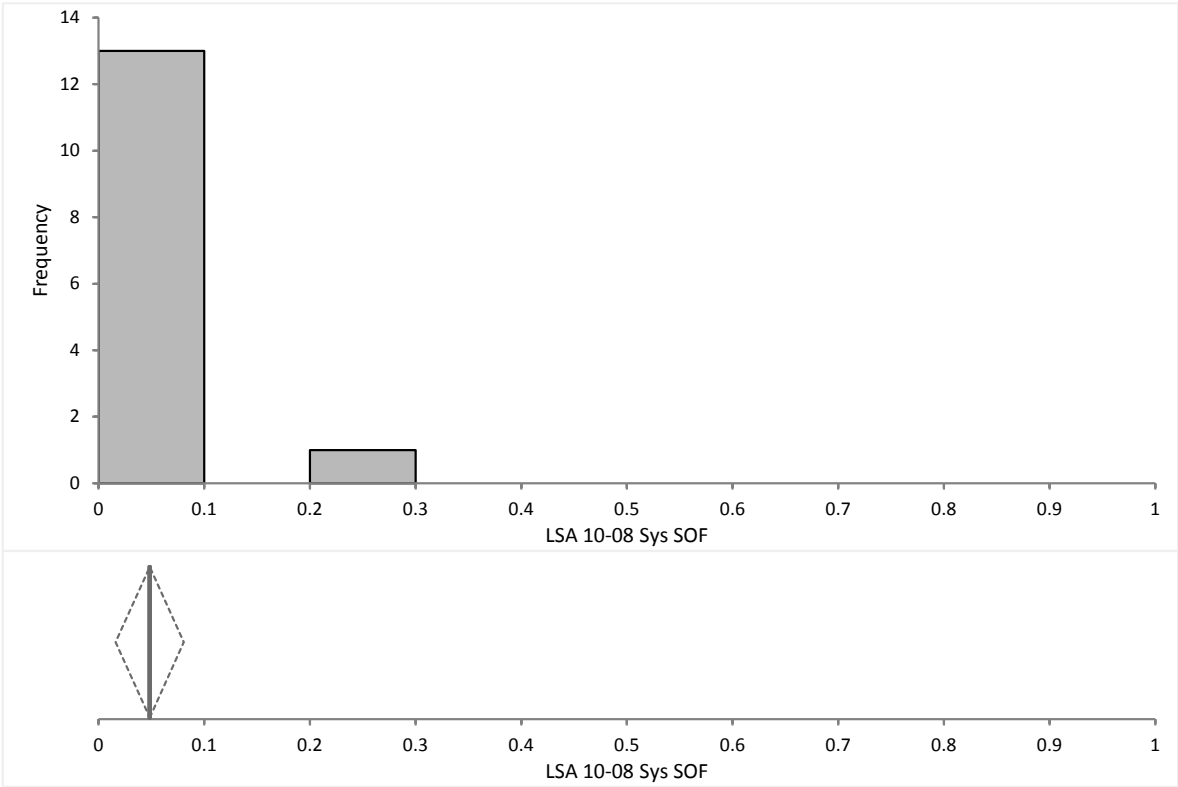
0.0

0.0

0.0

0.0

Descriptives



N		14							
		Mean	95% CI		Mean SE	SD	Variance	Skewness	Kurtosis
LSA 10-08 Sys SOF		0.05	0.02 to 0.08		0.015	0.06	0.00	3.2	10.67
		Minimum	1st quartile	Median	98.71% CI		3rd quartile	Maximum	IQR
LSA 10-08 Sys SOF		0.02	0.02	0.03	0.02 to 0.05		0.05	0.2	0.02