

APPENDIX F

SOIL PHYSICAL PROPERTIES

APPENDIX F: SOIL PHYSICAL PROPERTIES

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ATTACHMENTS

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F.1. INTRODUCTION

This appendix presents the results of soil physical properties testing conducted as part of the Remedial Investigation (RI) for Operable Unit 1 and Operable Unit 2 (OU-1/OU-2) at the Nevada Environmental Response Trust ("NERT" or "Trust") RI Study Area located in Henderson, Nevada (the "Site"). The OU-1/OU-2 RI was implemented in three phases. The Phase 1 RI investigation locations are shown on Figures 6-2, 6-3, and 6-4 in Section 6 of the main OU-1/OU-2 RI Report. The Phase 2 RI investigation locations are shown on Figures 6-5, 6-6, and 6-7, and the Phase 3 RI investigation locations are shown on Figures 6-8, 6-9, 6-10, and 6-11, also in Section 6 of the main report. Soil samples collected during the Phase 1 RI were tested by PTS Laboratories, Inc. (PTS) in Santa Fe Springs, California. Following closure of the Santa Fe Springs facility, soil samples collected during the Phase 2 RI were tested by PTS in their Houston, Texas laboratory. In January 2018, soil physical properties testing was conducted by Core Laboratories LP, Petroleum Services division (Core Lab) in Bakersfield, California. Soil samples collected during the Phase 3 RI

and the Phase 2 RI Modification No. 15 (investigation within the area of the former AP-5 Pond) were tested by Core Lab. While the soil samples were collected during different phases of the RI, the results for the samples collected from OU-1 are shown together in summary Tables F-1a thru F-1c. Similarly, the results for soil samples collected within OU-2 are presented together in Tables F-2a thru F-2c.

Soil retrieved using continuous core sampling equipment from the RI investigation locations was transported to the physical testing laboratory. Following retrieval at the drill site, the soil core was sealed, labeled, and placed on ice for subsequent transportation and storage at the lab. All core was submitted to the lab under standard chain-of-custody documentation. Following arrival at the lab, the core samples were placed in frozen storage for future physical testing. The core remained in frozen storage until it was retrieved for physical testing.

Selected soil core samples were identified for physical testing to evaluate physical properties. The testing included grain size analysis, Atterberg limits, Unified Soil Classification System (USCS) soil classification, moisture content and bulk density, porosity, hydraulic conductivity, and total organic carbon. The physical testing results for the OU-1 RI soil samples are summarized in Tables F-1a and F-1b, and the results for the OU-2 RI soil samples are summarized in Tables F-2a and F-2b. In addition, selected soil samples were analyzed for total organic carbon, and these results for OU-1 and OU-2 are summarized in Tables F-1c and F-2c, respectively. The PTS and Core Lab reports are provided in electronic format with this appendix. Soil physical properties testing conducted as part of the Unit 4 and 5 Buildings Investigation (see Section 7.6 of the main RI Report) and to support treatability studies in OU-1 and OU-2 are provided in the reports for those investigations.

F.2. GRAIN SIZE ANALYSIS

Grain size distribution tests were performed on selected soil samples. Results of the testing for the OU-1 and OU-2 RI soil samples are summarized in Tables F-1a and F-2a, respectively, and are shown on the particle size analysis curves in the attached laboratory reports. Particle size distribution of sediments is determined by using laser light diffraction to measure the amount and patterns of light scattered by a particle's surface. The procedure is a modification of ASTM D4464-85 used to measure particle sizes of catalytic material. The procedure has been extended to include measurement of unconsolidated soils and sediments. Local, state, and federal agencies have recognized the method as an alternative to ASTM D422 (hydrometer) and the pipette method.

F.3. ATTERBERG LIMITS

To help classify the soils, Atterberg Limits of selected samples were determined in accordance with ASTM Methodology D-4318. The test results, including liquid limits and plasticity indices, are presented in Tables F-1a and F-2a for the OU-1 and OU-2 RI soil samples, respectively.

F.4. USCS SOIL CLASSIFICATION

USCS soil classifications were provided using ASTM Methodology D-2487. Test results for the OU-1 soil samples are presented in Tables F-1a and F-1b, and the OU-2 RI soil sample test results are presented in Tables F-2a and F-2b.

F.5. BULK DENSITY

Bulk density was calculated by API RP40 and is defined as the total mass of dried sample per total volume. Test results for the OU-1 and the OU-2 RI soil samples are presented in Tables F-1b and F-2b, respectively.

F.6. TOTAL AND EFFECTIVE POROSITY

Total and effective porosity were calculated using modified ASTM Methodology D-425. Effective and total porosity results for the OU-1 and the OU-2 RI soil samples are presented in Tables F-1b and F-2b, respectively.

F.7. HYDRAULIC CONDUCTIVITY

Constant head permeability tests were performed on selected samples representing various soil types in order to evaluate their vertical and horizontal permeability characteristics. The hydraulic conductivity of the soil was measured under saturated conditions using methods API RP40 and EPA 1900. The test results for the OU-1 and the OU-2 RI soil samples are presented in Tables F-1b and F-2b, respectively.

F.8. TOTAL ORGANIC CARBON

Total organic carbon was analyzed using the Walkley Black method. The test results for the OU-1 and OU-2 RI soil samples are presented in Tables F-1c and F-2c, respectively.

TABLES

TABLE F-1a. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Classification Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
OU-1 RI Well Pilot Borings													
M-5D	19.0	Alluvium	SW-SM	na	na	18	20	34	21	74	6	2	8
M-5D	41.6	UMCf	MH	94	38	0	0	6	20	26	49	25	74
M-5D	64.1	UMCf	MH	67	32	0	0	7	18	26	50	24	74
M-5D	69.7	UMCf	SM	143	50	0	0	32	31	63	28	9	37
M-22D	25.2	Alluvium	GP-GM	na	na	47	21	15	5	41	9	3	12
M-22D	33.0	Alluvium	GP-GM	na	na	57	11	13	8	32	6	6	11
M-66D	21.0	Alluvium	SW-SM	na	na	43	16	19	13	47	7	3	10
M-66D	38.6	UMCf	MH	66	25	0	0	13	25	38	46	16	62
M-66D	48.5	UMCf	MH	69	24	0	0	8	26	34	49	17	66
M-66D	50.8	UMCf	MH	62	28	0	0	0	14	14	36	50	86
M-66D	64.0	UMCf	ML	33	25	0	0	3	27	30	54	16	70
M-72D	19.3	Alluvium	SW-SM	na	na	21	24	25	18	67	8	4	12
M-72D	34.0	UMCf	ML	44	10	0	0	3	31	34	50	16	66
M-72D	49.5	UMCf	MH	69	30	0	0	17	19	36	37	26	64
M-72D	64.2	UMCf	ML	41	15	0	0	13	22	35	43	22	65
M-72D	65.8	UMCf	ML	49	16	0	0	9	24	34	48	18	66
M-140D	16.0	Alluvium	ML/SM	40	NP	1	3	5	32	40	53	6	59
M-140D	30.7	UMCf (caliche nodules)	MH	65	15	0	0	11	24	34	47	19	66
M-140D	36.0	UMCf	MH	90	41	0	0	4	18	22	53	25	78
M-140D	50.0	UMCf	MH	108	59	0	0	7	24	31	54	15	69
M-140D	64.3	UMCf	CH	118	76	0	0	1	11	12	56	32	88
M-161D	105.6	UMCf	CH	91	71	0	0	8	19	27	55	18	73
M-161D	114.7	UMCf	CH	118	91	0	0	3	23	26	66	9	74
M-161D	126.5	UMCf (sandy interval)	MH/SM	64	23	0	0	12	34	46	48	6	54
M-161D	149.5	UMCf	CH	95	66	0	0	5	22	27	56	17	73
M-162D	123.7	UMCf	CH	138	113	0	0	2	16	18	66	16	82
M-186D	133.7	UMCf (sandy interval)	SW-SM	17	NP	7	11	49	26	86	--	--	7
M-186D	144.0	UMCf (sandy interval)	SM	90	44	6	7	35	35	77	--	--	17
M-186D	165.5	UMCf	MH	125	70	0	0	2	17	19	72	9	81

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RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
M-189	30.0	UMCf	MH	75	35	0	0	1	25	26	59	15	74
M-190	34.3	UMCf	MH	62	30	0	0	1	22	23	59	18	77
M-190	38.0	UMCf	MH	76	39	0	0	2	21	23	62	15	77
M-190	47.0	UMCf (sandy interval)	SC	61	38	31	5	27	21	53	--	--	16
M-191	44.0	UMCf (sandy interval)	SM	57	15	10	2	20	34	56	--	--	34
M-191	46.0	UMCf	MH	65	29	0	0	11	24	35	49	16	65
M-192	35.0	UMCf	MH	69	15	0	0	4	23	27	57	16	73
M-192	40.0	UMCf (sandy interval)	MH/SM	55	22	0	0	16	29	45	44	11	55
M-195	46.5	UMCf	CL/SC	84	62	0	0	41	10	51	35	14	49
M-195	60.0	UMCf (distal cg1 unit)	ML/SM	49	18	0	0	12	40	52	39	10	48
M-195	67.5	UMCf	ML	49	19	0	0	0	34	34	52	13	66
M-195	79.5	UMCf	CH	77	56	0	0	0	17	17	69	15	83
M-195	101.0	UMCf	CH	99	79	0	0	0	9	9	70	20	91
M-195	146.0	UMCf	CH	85	60	0	0	0	12	12	69	19	88
M-197	23.0	Alluvium	SW	24	NP	10	27	32	22	82	--	--	8
M-197	52.5	UMCf	ML	49	16	0	0	3	25	28	58	13	72
M-197	64.2	UMCf (distal cg1 unit)	MH/SM	50	18	0	0	18	31	49	39	12	51
M-197	82.5	UMCf	CH	93	53	0	0	1	11	12	60	28	88
M-197	119.0	UMCf (sandy interval)	SC	90	71	0	1	20	42	63	--	--	37
M-197	124.0	UMCf (sandy interval)	SW	23	NP	33	21	23	18	62	--	--	5
M-197	135.0	UMCf	CH	91	55	0	0	0	4	4	67	29	96
M-197	138.5	UMCf	CH	80	60	0	0	0	7	7	57	37	93
M-197	145.5	UMCf	CH	144	117	0	0	0	5	5	57	37	95
M-200	107.5	UMCf (sandy interval)	SM	22	NP	0	1	6	76	83	--	--	17
M-200	112.5	UMCf	CH	99	78	0	0	0	5	5	63	33	95
M-201	29.0	UMCf	MH	74	18	0	0	10	26	36	47	17	64
M-201	43.1	UMCf	ML/SM	96	31	0	0	20	30	50	36	14	50
M-201	57.1	UMCf	MH	67	33	0	0	1	15	16	56	28	84
M-201	64.0	UMCf	GM	49	13	45	1	2	11	14	23	18	41
M-202	14.0	Alluvium	SM	na	na	37	13	17	14	44	14	5	19

TABLE F-1a. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Classification Properties
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RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
M-203	8.0	Alluvium	SM	na	na	0	0	30	44	74	22	5	26
M-203	13.6	UMCf	MH	63	27	0	0	4	36	40	44	16	60
M-203	18.0	UMCf	MH	112	53	0	0	4	12	16	66	19	84
M-203	26.6	UMCf (caliche nodules)	MH	150	88	22	3	2	18	23	43	12	55
M-203	31.2	UMCf	CH	56	35	0	0	0	15	15	65	20	85
M-203	41.3	UMCf	MH/SM	98	51	0	0	23	27	50	37	14	50
M-203	50.7	UMCf	CH	136	97	0	0	5	14	19	63	18	81
M-204	23.0	Alluvium	SP	na	na	10	17	31	39	87	--	--	3
M-204	31.0	UMCf	SC	75	47	0	1	19	39	59	--	--	41
M-204	38.5	UMCf (sandy interval)	SW-SC	93	71	10	19	37	25	81	--	--	9
M-204	41.2	UMCf	SC	49	27	13	17	31	24	71	--	--	16
M-204	46.0	UMCf	CL/SC	48	28	0	1	24	31	56	--	--	44
M-204	53.5	UMCf	CH/SC	92	63	0	2	16	35	53	--	--	47
M-204	63.5	UMCf	SP	101	75	0	1	29	69	98	--	--	2
M-204	74.0	UMCf	CH	97	75	0	0	11	29	39	--	--	61
M-204	88.8	UMCf	SC	100	75	0	3	31	30	63	--	--	37
M-204	108.2	UMCf	CH/SC	111	83	0	0	21	35	56	--	--	44
M-205	45.3	UMCf (caliche nodules)	SC	79	48	0	1	19	42	61	--	--	39
M-206	21.5	Alluvium	SC	na	na	0	2	11	53	66	--	--	35
M-206	28.0	Alluvium	SC	52	31	0	1	26	46	73	--	--	27
M-206	30.0	Alluvium	SC	54	32	0	10	35	30	75	--	--	25
M-210	12.5	Alluvium	SC	47	20	5	21	32	28	81	--	--	14
M-210	26.5	Alluvium	SM	39	NP	2	3	21	48	72	--	--	26
M-210	35.5	UMCf	SC	61	31	0	1	19	51	71	--	--	29
M-210	41.0	UMCf	SC	79	59	0	1	29	47	77	--	--	23
M-210	53.3	UMCf	CH/SC	53	33	0	0	19	37	57	--	--	43
M-210	65.0	UMCf	CL/SC	49	26	0	1	21	31	53	--	--	47
M-210	77.3	UMCf	CH/SC	55	37	0	0	10	36	47	--	--	53
M-212	42.8	UMCf	SM	67	35	0	0	12	66	78	--	--	22
M-212	49.8	UMCf	MH/SM	58	27	0	0	6	40	47	--	--	53
M-212	60.1	UMCf	CH/SC	73	41	0	0	8	46	54	--	--	46
M-212	65.1	UMCf	SC	54	32	0	1	12	51	64	--	--	36

TABLE F-1a. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Classification Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
M-213	24.7	Alluvium	SP-SM	20	NP	13	23	35	24	81	--	--	6
M-213	43.5	UMCf	CH/SC	82	51	0	1	13	43	56	--	--	44
M-213	54.5	UMCf	CH/SC	51	28	2	1	11	35	47	--	--	51
M-213	65.3	UMCf	CH/SC	51	33	0	0	8	44	52	--	--	48
M-213	86.5	UMCf	CH/SC	87	66	0	0	16	34	50	--	--	50
M-213	93.5	UMCf	SC	81	57	0	2	32	42	76	--	--	24
M-213	105.0	UMCf	SC	87	67	0	0	24	39	63	--	--	37
M-220	62.0	UMCf	MH/SM	68	29	0	0	22	25	48	41	12	52
M-221	28.7	Alluvium	SM	60	15	1	4	53	16	73	18	8	26
M-221	75.0	UMCf (sandy interval)	SP-SM	23	NP	26	16	34	18	68	4	2	6
M-222	9.0	Alluvium	SM	na	na	32	0	29	23	52	12	4	16
M-222	16.7	Alluvium	SW-SM	na	na	16	32	33	13	77	5	2	7
M-222	42.6	UMCf (caliche nodules)	MH	58	10	19	1	2	23	25	41	14	56
M-222	57.6	UMCf (sandy interval)	GM	22	NP	39	2	6	15	23	28	10	38
M-222	65.1	UMCf	MH	99	49	0	0	8	22	30	44	26	70
M-222	77.0	UMCf (sandy interval)	SM	18	NP	17	8	35	25	68	10	5	15
M-222	80.3	UMCf	CH	99	73	0	0	0	7	7	61	33	93
M-222	105.3	UMCf	CH	80	54	0	0	0	14	14	46	40	86
M-223	7.5	Alluvium	SC	39	15	10	19	29	29	78	--	--	12
M-223	13.0	Alluvium	SW-SM	39	12	5	34	34	18	87	--	--	8
M-223	27.5	UMCf	ML/SM	59	24	0	0	19	40	59	--	--	41
M-226	7.5	Alluvium	SW-SM	42	14	3	22	40	26	87	--	--	10
M-226	13.7	Alluvium	SW	40	13	23	29	26	16	72	--	--	5
M-226	36.0	UMCf (caliche nodules)	SM	59	25	7	17	30	22	69	--	--	23
M-244	95.5	UMCf (sandy interval)	SC	82	59	0	4	39	43	86	--	--	14
M-244	113.5	UMCf (sandy interval)	SC	83	63	0	0	21	42	63	--	--	37
M-244	126.5	UMCf (sandy interval)	SC	51	31	0	4	22	52	78	--	--	21
OU-1 RI Soil Borings													
RIDB-4	18.8	Alluvium	SM	56	15	0	0	34	24	58	32	10	42
RIDB-4	22.0	UMCf	MH	80	31	0	0	18	19	36	48	15	64
RIDB-4	24.7	UMCf	MH/SM	103	51	0	0	22	22	44	43	13	56

TABLE F-1a. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Classification Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RIDB-4	28.2	UMCf	CH	76	45	0	0	36	15	52	37	11	48
RIDB-4	34.9	UMCf	MH	64	27	0	0	0	10	10	62	28	90
RIDB-4	44.0	UMCf	CH	76	50	0	0	0	7	7	66	27	93
RIDB-4	55.4	UMCf	CL	43	24	0	0	3	24	28	49	24	72
RIDB-4	67.5	UMCf (caliche nodules)	CH	150	115	0	0	37	8	45	39	16	55
RIDB-4	74.1	UMCf	CH	141	103	0	0	0	0	0	53	46	100
RIDB-7	23.5	UMCf	MH	89	39	0	0	0	4	4	65	31	96
RIDB-7	31.2	UMCf	MH	79	38	0	0	4	28	33	50	17	67
RIDB-7	34.3	UMCf	MH	111	53	0	0	2	17	19	62	19	81
RIDB-7	37.3	UMCf (caliche nodules)	ML	71	35	0	0	33	21	54	38	8	46
RIDB-7	41.8	UMCf	CL	46	21	0	0	0	12	12	62	26	88
RIDB-7	54.4	UMCf	CH	69	24	0	0	0	15	15	60	25	85
RIDB-7	66.6	UMCf (sandy interval)	CL/SC	37	15	0	0	8	50	58	33	10	42
RIDB-7	83.5	UMCf (caliche nodules)	CH	127	31	0	0	22	8	30	48	22	70
RIDB-8	33.5	UMCf	SC	35	12	0	0	48	13	62	24	15	38
RIDB-8	36.4	UMCf	MH	64	21	0	0	10	24	33	45	21	67
RIDB-8	64.5	UMCf	MH	73	31	0	0	16	19	35	43	22	65
RIDB-8	76.2	UMCf	CH	107	72	0	0	18	12	30	39	31	70
RIDB-8	82.6	UMCf (caliche nodules)	GM (2)	69	33	64	5	5	8	17	12	7	19
RIDB-9	33.6	UMCf	MH	65	21	0	0	5	22	27	49	24	73
RIDB-9	64.0	UMCf	MH/SM	57	21	0	0	21	24	45	40	15	55
RIDB-9	65.1	UMCf	CH	64	38	0	0	0	10	10	42	48	90
RIDB-9	74.2	UMCf (sandy interval)	CH/SC	51	29	0	0	8	31	39	36	25	61
RIDB-9	82.2	UMCf (caliche nodules)	CH	109	77	0	0	42	5	46	30	24	54
RIDB-10	36.0	UMCf	MH	66	25	0	0	1	18	19	55	27	81
RIDB-10	61.5	UMCf	ML	30	NP	0	0	2	26	28	58	13	72
RIDB-10	76.6	UMCf	CH	85	57	0	0	6	9	15	52	33	85
RIDB-10	81.9	UMCf	CL	48	24	0	0	0	13	13	52	35	87
RIDB-12	17.5	Alluvium	SM	na	na	0	0	62	22	84	11	5	16
RIDB-12	28.0	UMCf (caliche nodules)	ML/SM	73	27	0	0	28	24	52	37	11	48
RIDB-12	33.9	UMCf	MH	54	21	0	0	5	20	25	57	19	75
RIDB-12	68.6	UMCf (sandy interval)	ML/SM	27	NP	0	0	13	28	41	51	9	59

TABLE F-1a. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Classification Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RIDB-12	71.0	UMCf (sandy interval)	ML/SM	30	7	0	0	10	33	44	43	13	56
RIDB-12	74.9	UMCf	CH	86	51	0	0	4	16	20	61	20	80
RIDB-12	84.5	UMCf	CH	50	28	0	0	0	15	15	59	26	85
RIDB-13	25.5	Alluvium	SM	na	na	14	9	14	35	58	22	6	28
RIDB-13	63.1	UMCf	CH	79	51	0	0	0	9	9	55	36	91
RIDB-13	78.3	UMCf	CH	65	43	0	0	0	10	10	50	41	90
RIDB-13	81.1	UMCf	CH	73	48	0	0	20	16	36	39	25	64
RIDB-14	16.0	Alluvium	SW-SM	na	na	40	14	20	17	51	2	7	9
RIDB-14	73.7	UMCf	CH	116	87	0	0	26	1	28	35	37	72
RIDB-14	81.0	UMCf (caliche nodules)	GC	81	53	43	5	7	7	20	16	22	38
RIDB-16	51.4	UMCf	MH	80	43	0	0	16	33	48	--	--	52
RIDB-16	54.5	UMCf	CH	107	87	0	0	7	39	46	--	--	54
RIDB-16	74.5	UMCf	CH	113	91	0	0	17	32	48	--	--	52
RIDB-18	68.5	UMCf (sandy interval)	ML/SM	25	NP	0	0	0	40	40	49	11	60
RIDB-18	72.0	UMCf	CH	99	59	0	0	3	18	20	64	16	80
RIDB-19	72.3	UMCf (sandy interval)	ML/SM	17	NP	0	0	3	47	50	42	8	50
RIDB-19	77.4	UMCf	ML	47	19	0	0	3	34	37	52	11	63
RIDB-19	84.1	UMCf	MH	61	23	0	0	7	35	42	48	9	58
RIDB-20	15.5	Alluvium	SW-SM	na	na	0	0	69	19	88	9	3	12
RIDB-20	21.5	Alluvium	SM	na	na	0	0	66	18	84	11	6	16
RIDB-20	35.9	UMCf	CH	54	29	0	0	0	4	4	51	45	96
RIDB-20	46.6	UMCf	MH	74	27	0	0	6	32	38	47	15	62
RIDB-20	53.7	UMCf	CH	200	124	0	0	6	19	25	67	8	75
RIDB-20	60.9	UMCf	CH/SC	79	58	0	0	60	4	64	22	14	36
RIDB-20	65.8	UMCf	MH	155	94	0	0	11	21	32	51	17	68
RIDB-20	82.9	UMCf (sandy interval)	ML/SM	102	58	0	0	25	27	52	44	5	48
RIDB-22	14.0	Alluvium	SM	na	na	0	0	61	27	88	8	4	12
RIDB-22	18.2	Alluvium	SW-SM	na	na	0	0	84	12	95	4	1	5
RIDB-22	42.9	UMCf	CH	54	31	0	0	2	20	22	57	22	78
RIDB-22	71.6	UMCf (caliche nodules)	CH	149	122	0	0	34	14	48	38	14	52
RIDB-22	87.7	UMCf	CH	84	61	0	0	0	27	27	53	21	73

**TABLE F-1a. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Classification Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RIDB-27	85.5	UMCf (caliche nodules)	ML/SM	28	NP	0	0	11	30	41	49	10	59
RIDB-28	16.2	Alluvium	SM	na	na	0	0	38	25	63	27	9	36
RIDB-28	37.2	UMCf	MH/SM	57	17	0	0	19	24	42	46	12	58
RIDB-28	39.3	UMCf (caliche nodules)	MH	60	20	0	0	23	21	44	42	13	56
RIDB-28	68.5	UMCf	CL	49	22	0	0	0	11	11	58	31	89
RIDB-28	85.5	UMCf (sandy interval)	ML/SM	na	na	0	0	5	46	51	40	9	49
RIDB-28	88.7	UMCf (caliche nodules)	ML	36	11	0	0	17	19	36	50	14	64
RIDB-29	68.5	UMCf	SC	90	61	0	0	18	61	80	--	--	20
RIDB-29	77.8	UMCf	SC	71	51	0	1	16	48	65	--	--	35
RIDB-29	81.5	UMCf	ML	24	NP	0	0	5	29	34	--	--	66
RIDB-30	14.5	Alluvium	SP-SM	33	9	23	21	37	10	68	7	2	9
RIDB-30	25.0	Alluvium	SM	NP	NP	12	5	37	32	74	11	3	14
RIDB-30	34.5	UMCf	ML	41	13	0	0	0	0	0	72	28	100
RIDB-30	45.0	UMCf	CH	62	40	0	0	0	5	5	74	21	95
RIDB-30	55.0	UMCf	CH	54	29	0	0	0	0	0	74	26	100
RIDB-30	63.5	UMCf	CH	83	47	0	0	0	0	0	73	27	100
RIDB-30	74.5	UMCf	CL	38	18	0	1	0	0	1	64	35	99
RIDB-30	84.5	UMCf	CH	64	43	0	0	0	0	0	63	37	100
RIDB-30	95.0	UMCf	CH	135	108	0	0	0	0	0	53	47	100
RIDB-30	105.0	UMCf	CH	121	94	0	0	0	0	0	65	35	100
RIDB-30	121.5	UMCf	CH	102	75	0	0	0	0	0	65	35	100
RIDB-30	123.5	UMCf	CH	51	28	0	0	0	32	32	58	10	68
RIDB-30	134.6	UMCf	CH	71	42	0	7	1	15	22	65	13	78
RIDB-30	148.0	UMCf	CH	70	45	0	0	0	0	0	71	29	100
RIDB-31	15.0	Alluvium	SP-SM	35	10	27	22	35	7	64	7	2	9
RIDB-31	25.0	Alluvium	SC	34	15	1	5	34	19	58	28	13	41
RIDB-31	35.0	UMCf	MH	73	37	0	3	1	18	22	64	14	78
RIDB-31	45.0	UMCf	CH	50	23	0	0	0	0	0	71	29	100
RIDB-31	55.0	UMCf	CL	43	23	0	0	0	9	9	72	19	91
RIDB-31	65.0	UMCf	CH	71	44	0	0	0	0	0	65	35	100
RIDB-31	75.0	UMCf	CH	131	104	0	0	0	0	0	43	57	100
RIDB-31	78.5	UMCf	CL	39	19	0	0	0	0	0	72	28	100

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Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RIDB-31	85.0	UMCf	CH	79	56	0	0	0	0	0	71	29	100
RIDB-31	95.0	UMCf	CH	75	46	0	0	0	0	0	74	26	100
RIDB-31	105.0	UMCf	CH	118	91	0	0	0	0	0	47	53	100
RIDB-31	120.0	UMCf	CH	75	54	0	1	0	0	1	74	26	99
RIDB-31	138.0	UMCf	CH	79	52	0	0	0	9	9	76	15	91
RIDB-31	149.0	UMCf	CH	101	65	0	0	0	0	0	78	22	100
RIDB-32	14.5	Alluvium	SM	39	13	6	31	41	9	81	10	2	13
RIDB-32	24.5	Alluvium	SP-SM	NP	NP	11	30	38	11	79	8	2	10
RIDB-32	34.5	Alluvium	SM	NP	NP	10	15	51	11	77	9	4	13
RIDB-32	44.5	UMCf	ML	42	15	0	0	0	0	0	71	29	100
RIDB-32	55.0	UMCf	CH	81	46	0	0	0	1	1	72	26	99
RIDB-32	65.0	UMCf	CL	40	17	0	0	0	0	0	75	25	100
RIDB-32	75.0	UMCf	CH	141	113	0	0	0	0	0	77	23	100
RIDB-32	84.5	UMCf	CH	103	77	0	0	0	0	0	66	34	100
RIDB-32	96.2	UMCf	CH	93	67	0	0	0	0	0	64	36	100
RIDB-32	104.5	UMCf	CH	82	60	0	0	0	0	0	60	40	100
RIDB-32	118.6	UMCf	CL	46	29	0	0	0	0	0	44	56	100
RIDB-32	136.0	UMCf	CH	109	79	0	0	0	0	0	81	18	100
RIDB-32	149.5	UMCf	CH	94	58	0	0	0	0	0	75	25	100
RIDB-33	14.5	Alluvium	SP-SM	NP	NP	29	18	29	15	62	8	1	9
RIDB-33	25.0	Alluvium	SC	28	10	11	32	27	12	72	13	4	17
RIDB-33	34.5	Alluvium	SP-SM	NP	NP	10	37	37	7	81	6	3	9
RIDB-33	45.0	UMCf	MH	62	25	0	0	0	0	0	71	29	100
RIDB-33	55.0	UMCf	MH	81	35	0	0	0	0	0	77	23	100
RIDB-33	64.5	UMCf	ML	43	9	0	0	0	0	0	66	32	100
RIDB-33	75.0	UMCf	ML	47	16	0	0	0	0	0	72	28	100
RIDB-33	85.0	UMCf	ML	29	3	0	0	0	12	12	72	16	88
RIDB-33	95.0	UMCf	MH	56	25	0	0	0	9	9	75	16	91
RIDB-33	106.5	UMCf (sandy interval)	SM	NP	NP	10	20	41	14	75	12	2	15
RIDB-33	120.0	UMCf	CH	102	80	0	0	0	0	0	58	42	100
RIDB-33	135.0	UMCf	CL	45	25	0	0	0	0	0	61	39	100
RIDB-33	149.6	UMCf	CH	155	124	0	0	0	0	0	60	40	100

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Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RIDB-34	24.0	Alluvium	ML	35	8	0	4	0	0	4	67	29	96
RIDB-34	28.5	UMCf	ML	37	8	0	0	0	5	5	75	20	95
RIDB-34	35.3	UMCf	ML	23	2	5	13	0	0	13	52	30	82
RIDB-34	58.0	UMCf	CH	81	47	0	1	0	2	2	76	22	98
RIDB-35	27.0	Alluvium	MH	50	16	0	0	0	0	0	68	32	100
RIDB-35	28.5	UMCf	MH	57	18	0	0	0	0	0	71	29	100
RIDB-35	36.0	UMCf	CH	73	42	0	1	0	3	5	71	25	95
RIDB-35	43.2	UMCf	SM	NP	NP	0	1	7	47	54	35	11	46
RIDB-35	63.0	UMCf	CH	87	51	0	0	0	0	0	70	30	100
RIDB-35	86.0	UMCf	CH	91	60	0	0	0	0	0	80	20	100
RIDB-35	106.0	UMCf	CH	114	81	0	0	0	0	0	78	22	100
RIDB-35	135.0	UMCf	CH	104	65	0	0	0	0	0	77	23	100
RIDB-35	149.5	UMCf	CH	83	56	0	0	0	0	0	78	22	100
RIDB-36	24.5	Alluvium	ML	32	6	0	2	0	0	2	63	35	98
RIDB-36	25.3	Alluvium	ML	47	17	0	1	0	0	1	72	27	99
RIDB-36	68.0	UMCf	MH	74	38	0	0	0	0	0	67	33	100
RIDB-36	74.5	UMCf	MH	59	11	0	0	0	0	0	81	19	100
RISB-09	31.0	Alluvium	SM	16	NP	18	13	25	28	66	--	--	16
RISB-12	24.0	Alluvium	SW-SC	14	NP	22	21	32	16	69	--	--	9
RISB-23	23.0	Alluvium	SP-SM	27	NP	24	21	19	25	65	--	--	11
RI-1	33.0	UMCf	CH/SC	52	27	0	0	5	38	43	48	9	57
RI-5	75.0	UMCf	CH	93	65	0	0	0	11	11	62	27	89
RI-5	82.3	UMCf	MH	146	92	0	0	2	20	22	58	20	78
RI-5	87.2	UMCf	CH	182	145	0	0	2	13	15	64	20	85
RI-7	74.0	UMCf	MH	101	53	0	0	0	20	20	58	22	80
RI-7	83.4	UMCf	MH	206	129	0	0	0	5	5	72	23	95
RI-7	92.5	UMCf	CH	55	33	0	0	9	17	26	54	20	74
RI-7	103.0	UMCf	CH	99	73	0	0	0	14	14	63	23	86
RI-7	109.0	UMCf	CH	87	52	0	0	1	19	20	57	23	80
RI-7	122.5	UMCf	CH	126	100	0	0	17	14	31	48	21	69
RI-7	124.0	UMCf	CH	92	53	0	0	0	30	30	49	22	70

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				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RI-7	128.0	UMCf	CH	134	103	0	0	0	12	12	68	21	88
RI-9	16.0	Alluvium	SM	na	na	9	5	19	37	61	23	6	29
RI-9	31.5	UMCf	MH	59	19	0	0	1	19	20	61	19	80
RI-9	48.0	UMCf	ML	48	18	0	0	2	28	30	53	18	70
RI-9	72.5	UMCf	CH	77	52	0	0	0	18	18	48	34	82
RI-9	100.7	UMCf	CH	86	54	0	0	0	18	18	64	18	82
RI-9	103.8	UMCf	MH	158	91	0	0	0	13	13	70	17	87
RI-9	108.5	UMCf	MH	129	68	0	0	2	19	21	63	16	79
RI-9	122.5	UMCf	CH	94	58	0	0	5	13	18	59	23	82
RI-9	128.0	UMCf	CH	92	53	0	0	0	12	12	61	27	88
RI-10	102.5	UMCf	CH/SC	97	70	0	0	27	15	42	43	15	58
RI-10	112.3	UMCf	CH	94	68	0	0	2	25	27	53	19	73
RI-10	118.4	UMCf	MH	176	108	0	0	1	10	11	71	19	89
RI-12	52.4	UMCf	CH/SC	95	73	0	0	13	42	56	--	--	44
RI-12	65.3	UMCf	CH/SC	130	108	0	1	28	33	61	--	--	39
RI-12	73.5	UMCf	CH/SC	117	92	0	6	22	32	60	--	--	40
RI-12	102.0	UMCf	SC	74	55	0	6	28	33	67	--	--	32
RI-12	127.0	UMCf	SC	82	56	0	4	25	38	66	--	--	34
RI-12	145.7	UMCf	CL/SC	62	43	3	3	16	23	42	--	--	55
RI-13	76.3	UMCf	SC	35	15	11	8	18	36	62	--	--	27
RI-13	84.5	UMCf	CH/SC	122	99	0	0	18	36	55	--	--	45
RI-13	107.0	UMCf	SC	81	61	8	3	15	41	59	--	--	33
RI-13	117.5	UMCf	SC	43	25	0	2	23	44	70	--	--	30
RI-13	142.4	UMCf	CH/SC	103	79	0	1	25	30	56	--	--	44
RI-15	54.5	UMCf	CH	64	40	0	0	0	5	5	54	42	95
RI-15	75.0	UMCf	CH	87	63	0	0	0	2	2	50	48	98
RI-15	96.0	UMCf	CH	88	63	0	0	0	2	2	63	35	98
RI-15	116.0	UMCf	CH	85	60	0	0	0	1	1	58	41	99
RI-15	134.0	UMCf	CH	98	77	0	0	0	1	1	54	45	99
RI-17	93.0	UMCf	CH	54	33	0	0	0	23	24	65	12	76
RI-17	108.4	UMCf	CH	133	97	0	0	0	1	1	64	35	99

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				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RI-18	21.0	Alluvium	MH	69	35	0	0	6	24	31	53	17	69
RI-18	24.7	UMCf	ML	40	14	0	0	8	22	29	54	16	71
RI-18	26.5	UMCf	ML	48	18	0	0	7	28	35	55	11	65
RI-18	28.5	UMCf (caliche nodules)	SM	na	na	28	9	7	15	31	29	12	41
RI-18	33.0	UMCf	ML	43	15	0	0	3	27	30	56	14	70
RI-18	40.5	UMCf (caliche nodules)	GM	58	24	52	4	4	7	14	12	22	34
RI-18	44.0	UMCf (caliche nodules)	SM	na	na	22	11	12	10	33	27	18	45
RI-18	53.5	UMCf	MH	79	36	0	0	4	21	25	54	21	75
RI-18	67.5	UMCf	CH	53	32	0	0	0	21	21	62	17	79
RI-18	93.5	UMCf (sandy interval)	SC	169	141	0	0	35	27	62	28	10	38
RI-18	104.0	UMCf (sandy interval)	CH/SC	130	96	0	0	37	16	52	35	13	48
RI-20	41.0	UMCf	MH	56	19	0	0	4	26	30	51	19	70
RI-20	48.5	UMCf	MH	59	24	0	0	5	22	27	51	22	73
RI-20	55.5	UMCf	CH	53	25	0	0	3	24	27	58	15	73
RI-20	63.0	UMCf	MH	56	23	0	0	0	11	11	57	32	89
RI-20	73.0	UMCf	CL	42	21	0	0	1	28	29	54	17	71
RI-20	81.5	UMCf	MH	115	48	0	0	2	17	19	65	16	81
RI-20	108.5	UMCf	CH	104	75	0	0	0	11	11	60	28	89
RI-20	112.5	UMCf	CH	114	79	0	0	0	12	12	63	25	88
RI-20	117.5	UMCf	MH	92	51	0	0	2	25	27	61	12	73
RI-20	123.8	UMCf	CH	66	47	0	0	6	27	32	41	27	68
RI-20	128.0	UMCf	CH	103	82	0	0	0	24	24	50	27	76
RI-21	76.0	UMCf (distal cg1 unit)	CH	51	25	0	0	3	33	36	50	14	64
RI-24	22.0	Alluvium	SM	na	na	26	19	21	21	61	12	1	13
RI-24	27.0	Alluvium	SM	na	na	31	18	17	19	54	10	5	15
RI-24	32.0	Alluvium	SM	na	na	17	14	20	30	64	6	13	18
RI-24	36.2	UMCf	MH	80	30	0	0	8	30	38	50	12	62
RI-24	42.0	UMCf	MH	56	16	0	0	4	29	33	54	14	67
RI-24	48.0	UMCf (caliche nodules)	MH	72	28	13	2	4	23	29	41	16	57
RI-24	66.5	UMCf (distal cg1 unit)	SM	na	na	2	13	52	21	85	6	7	13
RI-24	68.7	UMCf (distal cg1 unit)	GM	na	na	31	1	3	19	23	31	14	46
RI-24	78.5	UMCf	CH	81	57	0	0	0	16	16	61	23	84

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				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RI-24	83.7	UMCf	CL	35	14	0	0	2	37	38	51	10	62
RI-24	93.5	UMCf	CH	153	109	0	0	0	7	7	69	24	93
RI-24	107.0	UMCf	CH	79	45	0	0	0	16	16	63	21	84
RI-24	113.0	UMCf	CH	113	84	0	0	0	11	11	61	29	89
RI-24	122.0	UMCf	CH	85	55	0	0	2	18	20	61	19	80
RI-24	142.0	UMCf	CH	92	62	0	0	2	21	23	59	18	77
RI-24	147.7	UMCf	CH	82	54	0	0	1	15	16	63	22	84
RI-25	22.5	Alluvium	SW-SM	na	na	11	26	33	22	81	5	3	8
RI-25	28.0	Alluvium	SM	na	na	17	19	18	19	56	20	7	27
RI-25	31.7	UMCf	MH/SM	59	19	0	0	15	32	47	45	8	53
RI-25	36.2	UMCf (calichified sand)	SM	na	na	28	6	8	20	34	25	13	38
RI-25	42.3	UMCf	ML/SM		NP	0	0	11	30	41	47	12	59
RI-25	48.5	UMCf	ML/SM	35	9	0	0	11	36	47	44	9	53
RI-25	65.5	UMCf	CL	49	25	0	0	2	19	21	63	17	79
RI-25	68.0	UMCf	CH	69	46	0	0	0	13	13	55	32	87
RI-25	78.2	UMCf	ML	46	15	0	0	2	31	34	53	13	66
RI-25	83.5	UMCf	MH	52	19	0	0	5	27	33	51	16	68
RI-25	93.1	UMCf	MH	71	34	0	0	3	23	27	53	20	73
RI-25	106.0	UMCf	CH	114	69	0	0	2	28	31	61	8	69
RI-25	113.5	UMCf (caliche)	SC	207	176	0	0	57	10	67	23	10	33
RI-25	122.0	UMCf (caliche)	CH/SC	234	212	0	0	37	15	51	36	13	49
RI-25	142.3	UMCf (caliche)	MH	115	59	0	0	10	23	34	52	14	66
RI-25	147.5	UMCf	CH	128	105	0	0	0	8	8	57	35	92
RI-26	33.0	Alluvium	SW-SM	23	NP	22	23	26	20	70	--	--	8
RI-26	57.8	UMCf (sandy interval)	SC	36	10	1	9	25	42	76	--	--	24
RI-26	62.0	UMCf	CH	70	47	0	0	0	3	3	60	37	97
RI-26	73.0	UMCf	ML/SM	25	NP	0	0	1	41	42	49	9	58
RI-26	75.0	UMCf (distal cg1 unit)	SM	24	NP	13	10	23	33	65	--	--	22
RI-26	103.7	UMCf	SC	93	52	5	12	30	38	80	--	--	15
RI-26	108.5	UMCf	CH	179	151	0	0	0	4	4	79	17	96
RI-26	114.0	UMCf	CH	99	81	0	0	0	15	15	71	14	85

**TABLE F-1a. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Classification Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
RI-27	46.0	UMCf (sandy interval)	SC	33	15	3	3	23	46	73	--	--	24
RI-27	60.5	UMCf (distal cg1 unit)	SW-SM	20	NP	10	18	29	32	79	--	--	11
RI-27	74.0	UMCf	SC	26	NP	2	15	23	41	79	--	--	19
RI-27	97.5	UMCf	SC	23	NP	0	3	14	43	61	--	--	39
RI-28	69.5	UMCf	SC	40	20	23	13	23	23	59	--	--	18
RI-28	71.3	UMCf	CH	62	42	0	0	2	31	33	50	17	67
RI-28	77.0	UMCf (sandy interval)	CL/SC	31	10	0	0	3	33	36	54	10	64
RI-28	78.0	UMCf (sandy interval)	SM	25	NP	5	12	31	35	77	--	--	18
RI-28	99.5	UMCf	CH	165	133	0	0	0	2	2	66	33	98

Notes:

Methodologies for particle size and Atterberg Limits were ASTM D4464M/D422 and ASTM D4318, respectively.

"--" means for particle size by ASTM D422M, no separation of silt and clay.

(1) Unified Soil Classification System (UCSC) soil classification

(2) Abundant caliche nodules up to 1-inch diameter

na = not tested.

NP = Non-Plastic

UMCf = Upper Muddy Creek formation.

UMCf-cg1 = first coarse-grained facies within the UMCf. The term "distal cg1 unit" refers to the downslope (northern) edge of the UMCf-cg1 unit where it grades laterally from sands and gravel to silty sand/sandy silt.

Soil physical properties testing was conducted by PTS Laboratories, Inc. of Santa Fe Springs, California and Houston, Texas.

Testing of soil samples from borings RIDB-30 through RIDB-36 was conducted by Core Laboratories LP of Bakersfield, California.

**TABLE F-1b. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
OU-1 RI Well Pilot Borings									
M-5D	41.6	UMCf	MH	74	0.80	72	19		--
M-5D	64.1	UMCf	MH	51	1.05	60	14		--
M-66D	38.6	UMCf	MH	54	0.99	62	19		--
M-66D	50.8	UMCf	MH	48	1.09	60	14		--
M-140D	36.0	UMCf	MH	73	0.82	69	19		--
M-140D	50.0	UMCf	MH	80	0.73	68	23		--
M-140D	64.3	UMCf	CH	75	0.83	68	11		--
M-161D	105.6	UMCf	CH	--	1.26	54	17		--
M-161D	149.5	UMCf	CH	--	0.97	59	10	V	3.80E-06
M-186D	165.5	UMCf	MH	--	0.66	71	24		--
M-189	30.0	UMCf	MH	--	0.90	62	16	V	3.70E-06
M-190	34.3	UMCf	MH	--	1.04	56	11	V	3.50E-06
M-190	47.0	UMCf (sandy interval)	SC	--	1.23	50	9	V	2.60E-06
M-191	44.0	UMCf (sandy interval)	SM	--	1.11	52	12	V	3.70E-06
M-191	46.0	UMCf	MH	--	1.01	54	9	V	3.10E-06
M-192	35.0	UMCf	MH	--	0.92	60	15	V	2.60E-06
M-192	40.0	UMCf (sandy interval)	MH/SM	--	0.99	48	21	V	1.40E-05
M-195	46.5	UMCf	CL/SC	44	1.26	59	12		--
M-195	60.0	UMCf (distal cg1 unit)	ML/SM	31	1.24	59	27		--
M-195	79.5	UMCf	CH	43	1.29	47	3		--
M-195	101.0	UMCf	CH	31	1.28	62	15		--
M-195	146.0	UMCf	CH	55	1.05	56	6	V	4.02E-08
M-197	52.5	UMCf	ML	22	1.19	55	13	V	4.30E-07
M-197	82.5	UMCf	CH	28	1.03	62	10		--
M-197	119.0	UMCf (sandy interval)	SC	19	1.41	56	10		--
M-197	135.0	UMCf	CH	17	1.18	66	11		--
M-197	138.5	UMCf	CH	13	1.28	48	11	V	6.31E-07
M-197	145.5	UMCf	CH	17	1.18	56	5	V	1.13E-07

**TABLE F-1b. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
M-200	107.5	UMCf (sandy interval)	SM	4	1.64	42	30	R	3.64E-04
M-200	112.5	UMCf	CH	30	1.19	59	7	R	3.32E-07
M-201	43.1	UMCf	ML/SM	82	0.73	68	22		--
M-201	57.1	UMCf	MH	52	1.07	62	17		--
M-203	13.6	UMCf	MH	51	1.01	58	19		--
M-203	18.0	UMC	MH	87	0.60	77	26		--
M-203	26.6	UMCf (caliche nodules)	MH	112	0.54	80	31		--
M-203	31.2	UMCf	CH	41	1.16	57	14		--
M-203	41.3	UMCf	MH/SM	75	0.78	66	18		--
M-203	50.7	UMCf	CH	55	0.91	62	16		--
M-204	46.0	UMCf	CL/SC	37	1.16	60	13		--
M-204	63.5	UMCf	SP	34	1.12	66	12		--
M-204	88.8	UMCf	SC	56	0.96	70	15		--
M-204	108.2	UMCf	CH/SC	52	1.00	71	16		--
M-205	45.3	UMCf (caliche nodules)	SC	91	0.62	79	28		--
M-206	30.0	UMCf	SC	42	1.10	61	17		--
M-210	35.5	UMCf	SC	54	0.92	64	20	V	7.03E-06
M-210	41.0	UMCf	SC	49	0.95	60	10	V	3.12E-07
M-210	53.3	UMCf	CH/SC	56	0.99	63	22		--
M-210	65.0	UMCf	CL/SC	30	1.21	51	10	V	7.56E-07
M-210	77.3	UMCf	CH/SC	32	1.15	55	17		--
M-212	42.8	UMCf	SM	47	0.83	69	28		--
M-212	49.8	UMCf	MH/SM	54	0.82	66	25		--
M-212	60.1	UMCf	CH/SC	56	0.82	68	21		--
M-212	65.1	UMCf	SC	40	0.97	63	22		--
M-213	43.5	UMCf	CH/SC	62	0.74	70	17	V	1.71E-06
M-213	54.5	UMCf	CH/SC	49	0.79	64	15	V	1.55E-06
M-213	65.3	UMCf	CH/SC	31	1.04	62	25		--
M-213	86.5	UMCf	CH/SC	36	0.99	55	9	V	7.01E-07
M-213	93.5	UMCf	SC	46	0.91	65	16		--
M-213	105.0	UMCf	SC	20	1.09	64	17		--

**TABLE F-1b. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
M-220	62.0	UMCf	MH/SM	54	1.01	64	18		--
M-222	42.6	UMCf (caliche nodules)	MH	60	0.94	60	18		--
M-222	65.1	UMCf	MH	77	0.79	68	19		--
M-222	80.3	UMCf	CH	57	0.98	61	10		--
M-222	105.3	UMCf	CH	41	1.14	56	8		--
M-226	36.0	UMCf (caliche nodules)	SM	18	1.49	47	13		--
M-244	95.5	UMCf (sandy interval)	SC	61	0.76	69	15		--
M-244	113.5	UMCf (sandy interval)	SC	14	1.09	61	22		--
M-244	126.5	UMCf (sandy interval)	SC	58	0.82	62	12	V	7.63E-07
OU-1 RI Soil Borings									
RIDB-4	18.8	Alluvium	SM	33	1.05	63	20		--
RIDB-4	22.0	UMCf	MH	48	0.79	69	27		--
RIDB-4	24.7	UMCf	MH/SM	67	0.78	71	20		--
RIDB-4	28.2	UMCf	CH	38	1.08	59	18		--
RIDB-4	34.9	UMCf	MH	31	1.11	62	18	V	8.13E-07
RIDB-4	44.0	UMCf	CH	40	1.16	62	12		--
RIDB-4	55.4	UMCf	CL	17	1.40	50	14	V	2.73E-07
RIDB-4	67.5	UMCf (caliche nodules)	CH	43	0.93	71	18		--
RIDB-4	74.1	UMCf	CH	57	0.97	65	11		--
RIDB-7	23.5	UMCf	MH	65	0.84	68	16		--
RIDB-7	31.2	UMCf	MH	51	0.83	67	28		--
RIDB-7	34.3	UMCf	MH	88	0.70	74	23		--
RIDB-7	37.3	UMCf (caliche nodules)	MH	50	0.95	62	26		--
RIDB-7	41.8	UMCf	CL	29	1.24	49	14		--
RIDB-7	54.4	UMCf	CH	38	1.17	54	10		--
RIDB-7	66.6	UMCf (sandy interval)	CL	26	1.47	42	18	V	6.76E-11
RIDB-7	83.5	UMCf (caliche nodules)	CH	41	1.07	63	10	V	8.14E-13
RIDB-8	33.5	UMCf	SC	25	1.37	46	13		--
RIDB-8	36.4	UMCf	MH	55	1.01	61	16		--

**TABLE F-1b. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
RIDB-8	64.5	UMCf	MH	39	1.13	60	24		--
RIDB-8	76.2	UMCf	CH	51	1.07	63	5		--
RIDB-8	82.6	UMCf (caliche nodules)	GM	33	1.25	53	17		--
RIDB-9	33.6	UMCf	MH	55	1.02	61	15		--
RIDB-9	64.0	UMCf	MH/SM	47	1.04	56	18	R	--
RIDB-9	82.2	UMCf (caliche nodules)	CH	53	1.01	62	8.3		--
RIDB-10	76.6	UMCf	CH	52	1.04	58.4	9.3	V	2.26E-12
RIDB-10	81.9	UMCf	CL	33	1.35	50	10	V	1.55E-12
RIDB-12	28.0	UMCf (caliche nodules)	ML/SM	38	0.94	68	21	V	--
RIDB-12	33.9	UMCf	MH	38	1.02	63	22	V	--
RIDB-12	74.9	UMCf	CH	50	0.93	66	21	V	6.62E-06
RIDB-12	84.5	UMCf	CH	31	1.44	49	9	V	2.08E-07
RIDB-13	63.1	UMCf	CH	46	1.11	56	7	V	5.30E-08
RIDB-13	78.3	UMCf	CH	30	1.41	56	9	V	2.48E-07
RIDB-13	81.1	UMCf (sandy interval)	CH	29	1.44	48	9		--
RIDB-14	73.7	UMCf	CH	53	1.02	63.6	7.2	V	1.50E-12
RIDB-16	51.4	UMCf	MH	42	0.72	75	26		--
RIDB-16	54.5	UMCf	CH	15	0.96	63.4	20		--
RIDB-16	74.5	UMCf	CH	34	1.35	51.6	10		--
RIDB-18	72.0	UMCf	CH	62	0.81	71.5	17	V	6.73E-07
RIDB-19	77.4	UMCf	ML	60	0.84	68	28	V	1.23E-05
RIDB-19	84.1	UMCf	MH	50	0.94	63	26	V	5.66E-06
RIDB-20	35.9	UMCf	CH	34	1.25	57	12	V	5.65E-07
RIDB-20	46.6	UMCf	MH	49	0.81	68	25	V	1.16E-05
RIDB-20	53.7	UMCf	CH	156	0.43	86	29		--
RIDB-20	60.9	UMCf	CH/SC	22	1.18	58	20	V	2.06E-12
RIDB-20	65.8	UMCf	MH	71	0.74	75	20	V	6.66E-12
RIDB-20	82.9	UMCf (sandy interval)	ML/SM	49	0.87	69	24	V	1.01E-11
RIDB-22	42.9	UMCf	CH	33	1.18	59	17	V	3.01E-07
RIDB-22	71.6	UMCf (caliche nodules)	CH	53	1.04	65	9	V	2.79E-07

**TABLE F-1b. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
RIDB-28	39.3	UMCf (caliche nodules)	MH	51	0.96	64	18		--
RIDB-28	68.5	UMCf	CL	35	1.20	63	20		--
RIDB-29	77.8	UCMf	SC	45	1.05	58	15	V	--
RIDB-30	34.5	UMCf	ML	55	1.07	60	12		
RIDB-30	45.0	UMCf	CH	48	1.16	57	5		--
RIDB-30	55.0	UMCf	CH	42	1.24	54	6		--
RIDB-30	63.5	UMCf	CH	69	0.93	66	8		--
RIDB-30	74.5	UMCf	CL	25	1.56	42	5		--
RIDB-30	84.5	UMCf	CH	42	1.25	54	4		--
RIDB-30	95.0	UMCf	CH	55	1.07	60	10	V	<10E-10
RIDB-30	105.0	UMCf	CH	67	0.95	65	3		--
RIDB-30	121.5	UMCf	CH	49	1.14	58	7	V	1.00E-08
RIDB-31	35.0	UMCf	MH	70	0.92	66	14		--
RIDB-31	45.0	UMCf	CH	49	1.13	58	12		--
RIDB-31	55.0	UMCf	CL	33	1.41	48	6		--
RIDB-31	65.0	UMCf	CH	48	1.15	57	5		--
RIDB-31	75.0	UMCf	CH	57	1.03	62	4		--
RIDB-31	85.0	UMCf	CH	48	1.16	57	6		--
RIDB-31	95.0	UMCf	CH	46	1.18	56	4		--
RIDB-31	105.0	UMCf	CH	49	1.14	57	2	V	<10E-10
RIDB-31	120.0	UMCf	CH	36	1.33	50	4		--
RIDB-31	149.0	UMCf	CH	73	0.88	67	13	V	<10E-10
RIDB-32	55.0	UMCf	CH	75	0.88	67	8		--
RIDB-32	65.0	UMCf	CL	32	1.43	47	6		--
RIDB-32	75.0	UMCf	CH	82	0.81	70	14	V	<10E-10
RIDB-32	84.5	UMCf	CH	64	0.97	64	4		--
RIDB-32	96.2	UMCf	CH	54	1.07	60	4		--
RIDB-32	104.5	UMCf	CH	38	1.31	51	2		--
RIDB-32	118.6	UMCf	CL	34	1.38	49	8		--
RIDB-32	136.0	UMCf	CH	58	1.03	61	3		--
RIDB-32	149.5	UMCf	CH	70	0.91	66	6		--

**TABLE F-1b. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
RIDB-33	45.0	UMCf	MH	60	1.01	62	9		--
RIDB-33	55.0	UMCf	MH	83	0.81	69	10		--
RIDB-33	64.5	UMCf	ML	41	1.26	52	6		--
RIDB-33	75.0	UMCf	ML	51	1.12	58	13	V	7.90E-07
RIDB-33	85.0	UMCf	ML	33	1.39	47	19		--
RIDB-33	95.0	UMCf	MH	54	1.06	60	10		--
RIDB-33	106.5	UMCf (sandy interval)	SM	19	1.72	36	11	V	6.18E-07
RIDB-33	120.0	UMCf	CH	41	1.25	53	5	V	<10E-10
RIDB-33	135.0	UMCf	CL	30	1.46	45	4		--
RIDB-33	149.6	UMCf	CH	60	1.01	61	5	V	<10E-10
RIDB-34	35.3	UMCf	ML	14	1.63	38	17		--
RIDB-35	28.5	UMCf	MH	60	1.00	62	10		--
RIDB-35	36.0	UMCf	CH	56	1.06	61	8		--
RIDB-35	86.0	UMCf	CH	70	0.91	66	14	V	1.41E-07
RIDB-35	106.0	UMCf	CH	73	0.89	66	10	V	1.61E-08
RIDB-35	135.0	UMCf	CH	90	0.75	71	17	V	1.63E-07
RIDB-36	24.5	Alluvium	ML	46	1.15	57	7		--
RI-7	74.0	UMCf	MH	72	0.80	70	20		--
RI-7	83.4	UMCf	MH	84	0.69	78	15		--
RI-7	92.5	UMCf	CH	23	1.26	50	18		--
RI-7	103.0	UMCf	CH	32	1.17	59	14		--
RI-7	109.0	UMCf	CH	42	1.18	57	11		--
RI-7	122.5	UMCf	CH	40	1.08	69	13		--
RI-9	31.5	UMCf	MH	26	1.10	59	23		--
RI-9	48.0	UMCf	ML	30	1.08	59	22		--
RI-9	72.5	UMCf	CH	15	1.20	62	13		--
RI-9	100.7	UMCf	CH	46	1.07	59	11		--
RI-9	103.8	UMCf	MH	75	0.68	77	24		--
RI-9	108.5	UMCf	MH	72	0.76	70	20		--
RI-9	122.5	UMCf	CH	47	1.04	64	10		--
RI-9	128.0	UMCf	CH	39	1.06	66	19		--

**TABLE F-1b. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
RI-10	102.5	UMCf	CH/SC	30	1.01	70	22		--
RI-10	118.4	UMCf	MH	75	0.70	77	22		--
RI-12	52.4	UMCf	CH/SC	15	1.10	67	14		--
RI-12	65.3	UMCf	CH/SC	12	1.40	66	9		--
RI-12	102.0	UMCf	SC	19	1.27	66	31		--
RI-12	127.0	UMCf	SC	54	0.94	63	14		--
RI-12	145.7	UMCf	CL/SC	4	1.14	54	24		--
RI-13	76.3	UMCf	SC	15	1.30	52	25		--
RI-13	84.5	UMCf	CH/SC	29	1.15	73	21		--
RI-13	107.0	UMCf	SC	6	1.28	60	23		--
RI-13	117.5	UMCf	SC	8	1.15	48	19		--
RI-13	142.4	UMCf	CH/SC	18	0.94	69	19		--
RI-15	54.5	UMCf	CH	48	1.20	61	14		--
RI-15	75.0	UMCf	CH	43	1.28	55	5	V	1.40E-07
RI-15	96.0	UMCf	CH	71	0.97	54	6	V	8.54E-08
RI-15	116.0	UMCf	CH	54	1.12	63	8		--
RI-15	134.0	UMCf	CH	48	1.17	64	10		--
RI-17	93.0	UMCf	CH	18	1.17	58	25	R	--
RI-17	108.4	UMCf	CH	17	1.21	55	15	R	--
RI-18	40.5	UMCf (caliche nodules)	GM	39	1.19	60	15		--
RI-18	44.0	UMCf (caliche nodules)	SM	53	1.01	62	14		--
RI-18	67.5	UMCf	CH	51	1.00	69	12		--
RI-18	93.5	UMCf (sandy interval)	SC	47	1.06	61	11		--
RI-20	41.0	UMCf	MH	36	1.05	65	18		--
RI-20	48.5	UMCf	MH	33	0.96	64	24		--
RI-20	63.0	UMCf	MH	22	1.13	64	16		--
RI-20	81.5	UMCf	MH	50	0.72	71	24		--
RI-20	108.5	UMCf	CH	23	1.15	63	17		--
RI-20	112.5	UMCf	CH	21	1.05	64	20		--
RI-20	117.5	UMCf	MH	34	0.97	64	23		--
RI-20	123.8	UMCf	CH	9	1.31	55	15		--

**TABLE F-1b. SUMMARY OF OU-1 RI PHYSICAL TESTING RESULTS - Soil Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
RI-26	57.8	UMCf (sandy interval)	SC	9	1.43	48	25	R	--
RI-26	103.7	UMCf	SC	45	0.83	70	29	R	--
RI-26	108.5	UMCf	CH	33	0.98	71	25	R	--
RI-26	114.0	UMCf	CH	22	1.39	52	9	R	2.85E-07
RI-28	71.3	UMCf	CH	17	1.16	64	30	R	--
RI-28	99.5	UMCf	CH	40	1.13	66	8	R	--

Notes:

Methodology for Physical Properties Data: ASTM D2237, API RP 40, Modified ASTM D425, EPA 9100.

(1) Unified Soil Classification System (UCSC) soil classification

(2) Permeability to water and conductivity measured at saturated conditions.

(3) Effective Porosity = no pore fluids in place; all interconnected pore channels.

(4) Sample Orientation: H = horizontal; V = vertical; R = remold

(5) Water = 0.9981 grams/cubic centimeter (g/cc)

Vb = Bulk Volume, cc

"--" means not tested

UMCf = Upper Muddy Creek formation.

UMCf-cg1 = first coarse-grained facies within the UMCf. The term "distal cg1 unit" refers to the downslope (northern) edge of the UMCf-cg1 unit where it grades laterally from sands and gravel to silty sand/sandy silt.

Soil physical properties testing was conducted by PTS Laboratories, Inc. of Santa Fe Springs, California and Houston, Texas.

Testing of soil samples from borings RIDB-30 through RIDB-36 was conducted by Core Laboratories LP of Bakersfield, California.

**TABLE F-1c. SUMMARY OF OU-1 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (mg/kg)
OU-1 RI Well Pilot Borings				
M-5D	19.0	Alluvium	SW-SM	410
M-5D	41.6	UMCf	MH	940
M-5D	64.1	UMCf	MH	760
M-5D	69.7	UMCf	SM	870
M-22D	25.2	Alluvium	GP-GM	480
M-22D	33.0	Alluvium	GP-GM	610
M-66D	21.0	Alluvium	SW-SM	<100
M-66D	38.6	UMCf	MH	<100
M-66D	48.5	UMCf	MH	<100
M-66D	50.8	UMCf	MH	<100
M-66D	64.0	UMCf	ML	<100
M-72D	19.3	Alluvium	SW-SM	<100
M-72D	34.0	UMCf	ML	<100
M-72D	49.5	UMCf	MH	290
M-72D	64.2	UMCf	ML	<100
M-72D	65.8	UMCf	ML	<100
M-140D	16.0	Alluvium	ML/SM	510
M-140D	30.7	UMCf (caliche nodules)	MH	560
M-140D	36.0	UMCf	MH	570
M-140D	50.0	UMCf	MH	320
M-140D	64.3	UMCf	CH	440
M-161D	105.6	UMCf	CH	700
M-161D	114.7	UMCf	CH	--
M-161D	126.5	UMCf (sandy interval)	MH/SM	--
M-161D	149.5	UMCf	CH	1,400
M-162D	123.7	UMCf	CH	--
M-186D	133.7	UMCf (sandy interval)	SW-SM	--
M-186D	144.0	UMCf (sandy interval)	SM	710
M-186D	165.5	UMCf	MH	650
M-189	30.0	UMCf	MH	210
M-190	34.3	UMCf	MH	270
M-190	38.0	UMCf	MH	--
M-190	47.0	UMCf (sandy interval)	SC	130
M-191	44.0	UMCf (sandy interval)	SM	330
M-191	46.0	UMCf	MH	--
M-192	35.0	UMCf	MH	1,100
M-192	40.0	UMCf (sandy interval)	MH/SM	510
M-195	46.5	UMCf	CL/SC	298
M-195	60.0	UMCf (distal cg1 unit)	ML/SM	85
M-195	67.5	UMCf	ML	107
M-195	79.5	UMCf	CH	401
M-195	101.0	UMCf	CH	593
M-195	146.0	UMCf	CH	681

**TABLE F-1c. SUMMARY OF OU-1 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (mg/kg)
M-197	23.0	Alluvium	SW	568
M-197	52.5	UMCf	ML	386
M-197	64.2	UMCf (distal cg1 unit)	MH/SM	494
M-197	82.5	UMCf	CH	496
M-197	119.0	UMCf (sandy interval)	SC	494
M-197	124.0	UMCf (sandy interval)	SW	200
M-197	135.0	UMCf	CH	493
M-197	138.5	UMCf	CH	394
M-197	145.5	UMCf	CH	398
M-200	107.5	UMCf (sandy interval)	SM	495
M-200	112.5	UMCf	CH	493
M-201	29.0	UMCf	MH	<100
M-201	43.1	UMCf	ML/SM	<100
M-201	57.1	UMCf	MH	<100
M-201	64.0	UMCf	GM	<100
M-202	14.0	Alluvium	SM	<100
M-203	8.0	Alluvium	SM	100
M-203	13.6	UMCf	MH	290
M-203	18.0	UMCf	MH	2,500
M-203	26.6	UMCf (caliche nodules)	MH	1,050
M-203	31.2	UMCf	CH	480
M-203	41.3	UMCf	MH/SM	770
M-203	50.7	UMCf	CH	560
M-204	23.0	Alluvium	SP	400
M-204	31.0	UMCf	SC	300
M-204	38.5	UMCf (sandy interval)	SW-SC	490
M-204	41.2	UMCf	SC	210
M-204	46.0	UMCf	CL/SC	210
M-204	53.5	UMCf	CH/SC	500
M-204	63.5	UMCf	SP	500
M-204	74.0	UMCf	CH	110
M-204	88.8	UMCf	SC	400
M-204	108.2	UMCf	CH/SC	770
M-205	45.3	UMCf (caliche nodules)	SC	1,050
M-206	21.5	Alluvium	SC	590
M-206	28.0	Alluvium	SC	500
M-206	30.0	Alluvium	SC	400
M-210	12.5	Alluvium	SC	400
M-210	26.5	Alluvium	SM	690
M-210	35.5	UMCf	SC	400
M-210	41.0	UMCf	SC	400
M-210	53.3	UMCf	CH/SC	500
M-210	65.0	UMCf	CL/SC	500
M-210	77.3	UMCf	CH/SC	210

**TABLE F-1c. SUMMARY OF OU-1 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (mg/kg)
M-212	42.8	UMCf	SM	490
M-212	49.8	UMCf	MH/SM	400
M-212	60.1	UMCf	CH/SC	500
M-212	65.1	UMCf	SC	300
M-213	24.7	Alluvium	SP-SM	210
M-213	43.5	UMCf	CH/SC	200
M-213	54.5	UMCf	CH/SC	200
M-213	65.3	UMCf	CH/SC	490
M-213	86.5	UMCf	CH/SC	490
M-213	93.5	UMCf	SC	500
M-213	105.0	UMCf	SC	300
M-220	62.0	UMCf	MH/SM	570
M-221	28.7	Alluvium	SM	310
M-221	75.0	UMCf (sandy interval)	SP-SM	<100
M-222	9.0	Alluvium	SM	200
M-222	16.7	Alluvium	SW-SM	100
M-222	42.6	UMCf (caliche nodules)	MH	<100
M-222	57.6	UMCf (sandy interval)	GM	<100
M-222	65.1	UMCf	MH	400
M-222	77.0	UMCf (sandy interval)	SM	<100
M-222	80.3	UMCf	CH	220
M-222	105.3	UMCf	CH	<100
M-223	7.5	Alluvium	SC	393
M-223	13.0	Alluvium	SW-SM	410
M-223	27.5	UMCf	ML/SM	398
M-226	7.5	Alluvium	SW-SM	394
M-226	13.7	Alluvium	SW	481
M-226	36.0	UMCf (caliche nodules)	SM	395
M-244	95.5	UMCf (sandy interval)	SC	800
M-244	113.5	UMCf (sandy interval)	SC	200
M-244	126.5	UMCf (sandy interval)	SC	200
OU-1 RI Soil Borings				
RIDB-4	18.8	Alluvium	SM	260
RIDB-4	22.0	UMCf	MH	370
RIDB-4	24.7	UMCf	MH/SM	190
RIDB-4	28.2	UMCf	CH/SC	80
RIDB-4	34.9	UMCf	MH	<100
RIDB-4	44.0	UMCf	CH	<100
RIDB-4	55.4	UMCf	CL	<100
RIDB-4	67.5	UMCf (caliche nodules)	CH	100
RIDB-4	74.1	UMCf	CH	290

**TABLE F-1c. SUMMARY OF OU-1 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (mg/kg)
RIDB-7	23.5	UMCf	MH	480
RIDB-7	31.2	UMCf	MH	580
RIDB-7	34.3	UMCf	MH	390
RIDB-7	37.3	UMCf (caliche nodules)	ML	690
RIDB-7	41.8	UMCf	CL	290
RIDB-7	54.4	UMCf	CH	290
RIDB-7	66.6	UMCf (sandy interval)	CL/SC	<100
RIDB-7	83.5	UMCf (caliche nodules)	CH	100
RIDB-8	33.5	UMCf	SC	<100
RIDB-8	36.4	UMCf	MH	<100
RIDB-8	64.5	UMCf (caliche nodules)	MH	<100
RIDB-8	76.2	UMCf	CH	<100
RIDB-8	82.6	UMCf (caliche nodules)	GM	<100
RIDB-9	33.6	UMCf	MH	<100
RIDB-9	64.0	UMCf	MH/SM	<100
RIDB-9	65.1	UMCf	CH	<100
RIDB-9	74.2	UMCf (sandy interval)	CH/SC	<100
RIDB-9	82.2	UMCf (caliche nodules)	CH	<100
RIDB-10	36.0	UMCf	MH	<100
RIDB-10	61.5	UMCf	ML	<100
RIDB-10	76.6	UMCf	CH	<100
RIDB-10	81.9	UMCf	CL	<100
RIDB-12	17.5	Alluvium	SM	480
RIDB-12	28.0	UMCf (caliche nodules)	ML/SM	680
RIDB-12	33.9	UMCf	MH	460
RIDB-12	68.6	UMCf (sandy interval)	ML/SM	290
RIDB-12	71.0	UMCf (sandy interval)	ML/SM	480
RIDB-12	74.9	UMCf	CH	660
RIDB-12	84.5	UMCf	CH	850
RIDB-13	25.5	Alluvium	SM	<100
RIDB-13	63.1	UMCf	CH	<100
RIDB-13	78.3	UMCf	CH	<100
RIDB-13	81.1	UMCf	CH	<100
RIDB-14	16.0	Alluvium	SW-SM	<100
RIDB-14	73.7	UMCf	CH	<100
RIDB-14	81.0	UMCf (caliche nodules)	GC	<100
RIDB-16	51.4	UMCf	MH	690
RIDB-16	54.5	UMCf	CH	600
RIDB-16	74.5	UMCf	CH	600
RIDB-18	68.5	UMCf (sandy interval)	ML/SM	100
RIDB-18	72.0	UMCf	CH	300
RIDB-19	72.3	UMCf (sandy interval)	ML/SM	300
RIDB-19	77.4	UMCf	ML	660
RIDB-19	84.1	UMCf	MH	560

**TABLE F-1c. SUMMARY OF OU-1 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (mg/kg)
RIDB-20	15.5	Alluvium	SW-SM	400
RIDB-20	21.5	Alluvium	SM	1,050
RIDB-20	35.9	UMCf	CH	1,300
RIDB-20	46.6	UMCf	MH	380
RIDB-20	53.7	UMCf	CH	2,050
RIDB-20	60.9	UMCf	CH/SC	680
RIDB-20	65.8	UMCf	MH	1,150
RIDB-20	82.9	UMCf (sandy interval)	ML/SM	750
RIDB-22	14.0	Alluvium	SM	570
RIDB-22	18.2	Alluvium	SW-SM	380
RIDB-22	42.9	UMCf	CH	670
RIDB-22	71.6	UMCf (caliche nodules)	CH	760
RIDB-22	87.7	UMCf	CH	560
RIDB-27	85.5	UMCf (caliche nodules)	ML/SM	400
RIDB-28	16.2	Alluvium	SM	680
RIDB-28	37.2	UMCf	MH/SM	760
RIDB-28	39.3	UMCf (caliche nodules)	MH	780
RIDB-28	68.5	UMCf	CL	680
RIDB-28	85.5	UMCf (sandy interval)	ML/SM	560
RIDB-28	88.7	UMCf (caliche nodules)	ML	480
RIDB-29	68.5	UCMf	SC	600
RIDB-29	77.8	UCMf	SC	700
RIDB-29	81.5	UCMf	ML	400
RIDB-30	14.5	Alluvium	SP-SM	3,300
RIDB-30	25.0	Alluvium	SM	2,300
RIDB-30	34.5	UMCf	ML	2,600
RIDB-30	45.0	UMCf	CH	2,200
RIDB-30	55.0	UMCf	CH	2,700
RIDB-30	63.5	UMCf	CH	3,600
RIDB-30	74.5	UMCf	CL	3,100
RIDB-30	84.5	UMCf	CH	2,300
RIDB-30	95.0	UMCf	CH	3,200
RIDB-30	105.0	UMCf	CH	3,300
RIDB-30	121.5	UMCf	CH	4,100
RIDB-30	123.5	UMCf	CH	2,600
RIDB-30	134.6	UMCf	CH	2,400
RIDB-30	148.0	UMCf	CH	3,200

**TABLE F-1c. SUMMARY OF OU-1 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (mg/kg)
RIDB-31	15.0	Alluvium	SP-SM	2,200
RIDB-31	25.0	Alluvium	SC	2,700
RIDB-31	35.0	UMCf	MH	3,000
RIDB-31	45.0	UMCf	CH	3,300
RIDB-31	55.0	UMCf	CL	3,300
RIDB-31	65.0	UMCf	CH	3,400
RIDB-31	75.0	UMCf	CH	2,400
RIDB-31	78.5	UMCf	CL	1,900
RIDB-31	85.0	UMCf	CH	3,400
RIDB-31	95.0	UMCf	CH	3,200
RIDB-31	105.0	UMCf	CH	3,200
RIDB-31	120.0	UMCf	CH	4,100
RIDB-31	138.0	UMCf	CH	3,600
RIDB-31	149.0	UMCf	CH	3,100
RIDB-32	14.5	Alluvium	SM	2,600
RIDB-32	24.5	Alluvium	SP-SM	2,200
RIDB-32	34.5	Alluvium	SM	1,500
RIDB-32	44.5	UMCf	ML	2,300
RIDB-32	55.0	UMCf	CH	3,000
RIDB-32	65.0	UMCf	CL	2,500
RIDB-32	75.0	UMCf	CH	3,700
RIDB-32	84.5	UMCf	CH	3,300
RIDB-32	96.2	UMCf	CH	2,800
RIDB-32	104.5	UMCf	CH	2,200
RIDB-32	118.6	UMCf	CL	3,300
RIDB-32	136.0	UMCf	CH	4,100
RIDB-32	149.5	UMCf	CH	3,200
RIDB-33	14.5	Alluvium	SP-SM	2,800
RIDB-33	25.0	Alluvium	SC	2,000
RIDB-33	34.5	Alluvium	SP-SM	2,000
RIDB-33	45.0	UMCf	MH	2,100
RIDB-33	55.0	UMCf	MH	2,500
RIDB-33	64.5	UMCf	ML	2,800
RIDB-33	75.0	UMCf	ML	1,800
RIDB-33	85.0	UMCf	ML	2,200
RIDB-33	95.0	UMCf	MH	2,200
RIDB-33	106.5	UMCf (sandy interval)	SM	1,900
RIDB-33	120.0	UMCf	CH	1,600
RIDB-33	135.0	UMCf	CL	2,300
RIDB-33	149.6	UMCf	CH	3,300
RIDB-34	24.0	Alluvium	ML	3,000
RIDB-34	28.5	UMCf	ML	2,300
RIDB-34	35.3	UMCf	ML	2,100
RIDB-34	58.0	UMCf	CH	2,500

**TABLE F-1c. SUMMARY OF OU-1 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (mg/kg)
RIDB-35	27.0	Alluvium	MH	2,100
RIDB-35	28.5	UMCf	MH	3,800
RIDB-35	36.0	UMCf	CH	2,000
RIDB-35	43.2	UMCf	SM	1,100
RIDB-35	63.0	UMCf	CH	3,400
RIDB-35	86.0	UMCf	CH	2,300
RIDB-35	106.0	UMCf	CH	2,200
RIDB-35	135.0	UMCf	CH	6,300
RIDB-35	149.5	UMCf	CH	2,100
RIDB-36	24.5	Alluvium	ML	2,100
RIDB-36	25.3	Alluvium	ML	1,400
RIDB-36	68.0	UMCf	MH	2,100
RIDB-36	74.5	UMCf	MH	1,900
RISB-09	31.0	Alluvium	SM	160
RISB-12	24.0	Alluvium	SW-SC	420
RISB-23	23.0	Alluvium	SP-SM	280
RI-1	33.0	UMCf	CH/SC	680
RI-7	74.0	UMCf	MH	1,000
RI-7	83.4	UMCf	MH	980
RI-7	92.5	UMCf	CH	1,100
RI-7	103.0	UMCf	CH	1,150
RI-7	109.0	UMCf	CH	<100
RI-7	122.5	UMCf	CH	220
RI-7	124.0	UMCf	CH	780
RI-7	128.0	UMCf	CH	1,100
RI-10	102.5	UMCf	CH/SC	920
RI-10	112.3	UMCf	CH	860
RI-10	118.4	UMCf	MH	1,050
RI-12	52.4	UMCf	CH/SC	210
RI-12	65.3	UMCf	CH/SC	300
RI-12	73.5	UMCf	CH/SC	300
RI-12	102.0	UMCf	SC	590
RI-12	127.0	UMCf	SC	670
RI-12	145.7	UMCf	CL/SC	310
RI-13	76.3	UMCf	SC	400
RI-13	84.5	UMCf	CH/SC	200
RI-13	107.0	UMCf	SC	400
RI-13	117.5	UMCf	SC	200
RI-13	142.4	UMCf	CH/SC	300
RI-15	54.5	UMCf	CH	201
RI-15	75.0	UMCf	CH	219
RI-15	96.0	UMCf	CH	395
RI-15	116.0	UMCf	CH	105
RI-15	134.0	UMCf	CH	202

**TABLE F-1c. SUMMARY OF OU-1 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (mg/kg)
RI-17	93.0	UMCf	CH	401
RI-17	108.4	UMCf	CH	397
RI-20	41.0	UMCf	MH	<100
RI-20	48.5	UMCf	MH	200
RI-20	55.5	UMCf	CH	790
RI-20	63.0	UMCf	MH	790
RI-20	73.0	UMCf	CL	690
RI-20	81.5	UMCf	MH	1,050
RI-20	108.5	UMCf	CH	<100
RI-20	112.5	UMCf	CH	2,000
RI-20	117.5	UMCf	MH	870
RI-20	123.8	UMCf	CH	1,150
RI-20	128.0	UMCf	CH	1,300
RI-26	33.0	Alluvium	SW-SM	600
RI-26	57.8	UMCf (sandy interval)	SC	300
RI-26	62.0	UMCf	CH	296
RI-26	73.0	UMCf	ML/SM	204
RI-26	75.0	UMCf (distal cg1 unit)	SM	106
RI-26	103.7	UMCf	SC	206
RI-26	108.5	UMCf	CH	108
RI-26	114.0	UMCf	CH	205
RI-27	46.0	UMCf (sandy interval)	SC	300
RI-27	60.5	UMCf (distal cg1 unit)	SW-SM	200
RI-27	74.0	UMCf	SC	110
RI-27	97.5	UMCf	SC	200
RI-28	69.5	UMCf	SC	202
RI-28	71.3	UMCf	CH	302
RI-28	77.0	UMCf (sandy interval)	CL/SC	204
RI-28	78.0	UMCf (sandy interval)	SM	205
RI-28	99.5	UMCf	CH	497

Notes:

(1) Unified Soil Classification System (UCSC) soil classification

(2) Analyzed using the Walkley Black method

(3) mg/kg = milligrams per kilogram, or parts per million

"--" means not tested

UMCf = Upper Muddy Creek formation.

UMCf-cg1 = first coarse-grained facies within the UMCf. The term "distal cg1 unit" refers to the downslope (northern) edge of the UMCf-cg1 unit where it grades laterally from sands and gravel to silty sand/sandy silt.

Soil physical properties testing was conducted by PTS Laboratories, Inc. of Santa Fe Springs, California and Houston, Texas.

Testing of soil samples from borings RIDB-30 through RIDB-36 was conducted by Core Laboratories LP of Bakersfield, California.

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
NERT Off-Site Study Area Well Pilot Borings													
PC-134D	52.1	UMCf	CH/SC	86	58	0	0	13	36	49	44	7	51
PC-134D	63.4	UMCf	SC	74	39	0	0	35	26	61	26	13	39
PC-134D	84.5	UMCf	MH	95	53	0	0	0	14	14	58	28	86
PC-134D	89.3	UMCf	CH	82	50	0	0	3	13	16	59	25	84
PC-137D	60.0	UMCf	SM	96	40	0	0	51	21	72	24	4	28
PC-137D	62.3	UMCf	CL	40	15	0	0	0	11	11	64	25	89
PC-137D	67.0	UMCf	MH	100	--	0	0	7	19	26	53	21	74
PC-137D	89.5	UMCf	MH	74	37	0	0	7	21	28	44	29	72
PC-153	17.0	Alluvium	SP	na	na	22	12	31	30	73	--	--	5
PC-153	36.0	UMCf	MH	100	54	0	0	8	26	34	--	--	66
PC-159	11.0	Alluvium	SW-SM	16	NP	38	18	22	16	56	--	--	6
PC-159	13.5	Alluvium	GP	na	na	60	10	15	12	37	--	--	3
PC-159	16.0	Alluvium	SW-SM	13	NP	25	18	31	19	68	--	--	7
PC-159	18.3	Alluvium	SP-SM	22	NP	7	10	32	42	84	--	--	9
PC-159	21.0	Alluvium	SW-SM	18	NP	1	9	46	36	91	--	--	8
PC-159	24.0	Alluvium	SW-SM	16	NP	6	14	42	30	86	--	--	8
PC-162	11.0	Alluvium	SM	25	NP	10	21	24	32	77	--	--	12
PC-162	15.0	Alluvium	SM	28	NP	8	15	24	40	78	--	--	14
PC-162	23.5	Alluvium	SP-SM	17	NP	11	19	34	27	80	--	--	10
PC-162	25.5	Alluvium	SC	33	11	2	1	10	61	72	--	--	26
PC-163	12.5	Alluvium	SM	18	NP	1	3	17	62	83	--	--	17
PC-164	12.5	Alluvium	SP	--	--	19	27	24	26	76	--	--	5
PC-164	32.0	UMCf	CH/SC	64	37	0	0	14	33	47	--	--	53
PC-164	36.0	UMCf	CH	51	24	0	0	6	29	34	--	--	66
PC-165	12.0	Alluvium	SP	20	NP	37	16	24	19	58	--	--	5
PC-165	31.0	Alluvium	SP-SM	16	NP	12	21	38	23	82	--	--	6
PC-165	36.5	Alluvium	GP	16	NP	50	22	16	8	46	--	--	4
PC-166	11.5	Alluvium	SP-SM	17	NP	20	21	25	26	72	--	--	9
PC-166	22.0	Alluvium	SP-SM	12	NP	24	24	28	19	70	--	--	5
PC-166	33.7	Alluvium	SC	50	35	9	13	25	28	66	--	--	25

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
PC-167	11.0	Alluvium	SW	53	25	27	26	25	17	68	--	--	5
PC-167	17.8	UMCf	CH	79	57	0	0	2	15	17	59	24	83
PC-167	21.3	UMCf	CH	79	58	0	0	0	7	7	57	36	93
PC-170	22.5	Alluvium	SP	52	25	46	23	16	11	50	--	--	4
PC-170	37.0	UMCf	SM	37	14	0	0	5	54	59	35	5	41
PC-170	43.5	UMCf	CH	45	22	0	0	0	7	7	54	38	93
PC-170	47.5	UMCf	CH	125	92	0	0	3	30	33	50	17	67
PC-170	49.0	UMCf	CH	124	91	0	0	1	33	34	51	15	66
PC-170	50.2	UMCf (sandy interval)	SP-SM	174	130	1	12	38	37	87	--	--	12
PC-172	13.5	Alluvium	SP	28	NP	36	27	23	12	61	--	--	3
PC-172	18.5	Alluvium	SP-SM	31	NP	16	21	27	28	76	--	--	8
PC-172	23.5	Alluvium	SP-SM	36	NP	14	15	24	35	74	--	--	12
PC-175	12.7	Alluvium	SP-SM	27	NP	7	17	28	34	79	--	--	14
PC-175	23.0	Alluvium	SM	29	NP	4	7	19	49	74	--	--	21
PC-175	32.7	Alluvium	SC	33	15	11	10	22	41	73	--	--	16
PC-175	39.5	Alluvium	SM	31	NP	0	0	4	62	66	--	--	34
PC-178	27.7	Alluvium	SP	52	24	32	37	25	4	66	--	--	2
PC-178	37.0	UMCf	CH	68	42	0	0	0	6	6	35	59	94
PC-178	45.0	UMCf	CH	69	42	0	0	4	32	36	48	16	64
PC-178	55.0	UMCf	SC	46	23	0	0	21	46	67	24	10	33
PC-178	61.0	UMCf	CH	123	91	0	0	8	39	48	40	13	52
PC-178	72.5	UMCf	CH	183	154	0	0	1	26	27	57	16	73
PC-188	10.5	Alluvium	SW-SM	34	NP	13	18	30	28	76	--	--	11
PC-188	39.5	UCMf	CH/SC	66	34	0	0	14	41	55	--	--	45
PC-188	56.0	UMCf	SC	76	42	0	0	17	61	78	--	--	22
PC-188	66.0	UMCf	CH/SC	71	44	0	0	15	42	57	--	--	43
PC-188	75.5	UMCf	CH	71	49	0	0	15	31	46	--	--	54
PC-188	86.5	UMCf	CH	81	49	0	0	16	37	53	--	--	47
PC-193	11.0	Alluvium	SC	17	NP	9	15	31	33	79	--	--	12
PC-193	14.5	Alluvium	CH/SC	59	33	0	0	9	36	46	--	--	54
PC-193	26.3	Alluvium	CH/SC	62	32	0	0	16	40	56	--	--	44
PC-193	36.3	UMCf	CL/SC	42	21	0	0	6	60	66	--	--	34
PC-193	46.3	UMCf	CL/SC	65	39	0	0	9	52	61	--	--	39

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
PC-195	57.0	UMCf	CH	112	76	0	0	5	30	35	48	17	65
PC-195	68.5	UMCf	CH	69	42	0	0	0	15	15	48	37	85
NERT Off-Site Study Area Soil Borings													
PCDB-4	33.5	UMCf	CH	68	43	0	0	0	6	6	40	54	94
PCDB-4	43.5	UMCf	CH	69	44	0	0	0	15	15	30	56	85
PCDB-4	57.0	UMCf	CH	106	82	0	0	0	8	8	64	28	92
PCDB-4	68.0	UMCf	CH	113	77	0	0	0	9	9	62	30	92
PCDB-4	71.0	UMCf	CH	71	44	0	0	0	4	4	44	52	96
PCDB-5	16.0	Alluvium	SW	17	NP	15	30	33	18	81	--	--	5
PCDB-5	46.5	Alluvium	SP	43	24	26	16	33	23	72	--	--	2
PCDB-5	54.5	UMCf	CL/SC	42	26	0	0	11	48	58	--	--	42
PCDB-5	64.0	UMCf	SC	112	86	0	0	29	49	78	--	--	22
PCDB-5	75.0	UMCf	CH	165	135	0	0	13	36	50	--	--	50
PCDB-5	87.0	UMCf	SC	98	69	0	4	44	36	84	--	--	16
PCDB-7	34.5	UMCf	CH-MH	91	52	0	0	0	20	20	55	25	80
PCDB-7	43.0	UMCf	CH-MH	89	51	0	0	0	9	9	38	53	91
PCDB-7	48.0	UMCf	CH	92	60	0	0	1	19	20	35	45	80
PCDB-7	54.5	UMCf	CH	89	57	0	0	5	20	25	50	25	75
PCDB-8	8.0	Alluvium	SP	--	--	32	23	25	16	64	--	--	4
PCDB-8	23.3	UMCf	CH	91	53	0	0	6	13	19	--	--	81
PCDB-8	36.0	UMCf	CH	81	55	0	0	9	39	48	--	--	52
PCDB-8	50.0	UMCf	MH	77	40	0	0	8	38	47	--	--	53
PCDB-8	64.5	UMCf	CH	72	45	0	0	5	43	48	--	--	52
PCDB-8	80.3	UMCf	CL/SC	37	18	1	2	7	46	55	--	--	44
PCDB-8	88.3	UMCf	SC	56	32	0	0	18	62	80	--	--	20
PCDB-9	14.5	Alluvium	SC	49	26	10	16	31	28	76	--	--	15
PCBD-9	21.5	Alluvium	SP-SC	56	27	0	0	26	66	92	--	--	8
PCBD-9	31.3	UMCf	CH	79	44	0	0	10	36	47	--	--	53
PCBD-9	40.5	UMCf	CH	66	35	0	0	12	35	47	--	--	53
PCBD-9	55.0	UMCf	CH/SC	58	27	0	0	5	46	52	--	--	48
PCBD-9	67.0	UMCf	ML/SM	31	NP	0	0	2	39	41	--	--	59
PCBD-9	79.5	UMCf	CH	79	46	0	0	9	20	29	--	--	71
PCDB-9	87.0	UMCf	CH/SC	76	41	0	0	18	46	64	--	--	36

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
PCDB-10	20.0	Alluvium	SP-SM	26	NP	7	19	33	30	81	--	--	11
PCDB-10	33.3	UMCf	CH/SC	80	53	0	0	8	44	52	34	13	48
PCDB-10	40.4	UMCf	CH	82	57	0	0	0	8	9	62	29	92
PCDB-10	48.7	UMCf (sandy interval)	SC	19	NP	7	7	20	48	75	--	--	18
PCDB-10	58.2	UMCf	CH	81	55	0	0	0	10	10	50	39	90
PCDB-10	68.5	UMCf	CH	88	67	0	0	0	12	13	55	32	87
PCDB-10	77.8	UMCf	CH	81	57	0	0	1	21	22	38	39	78
PCDB-10	85.5	UMCf	CH	90	67	0	0	1	17	18	66	16	82
PCBD-11	16.7	Alluvium	SP-SC	53	25	8	17	34	29	80	--	--	12
PCDB-11	29.0	UMCf	SC	21	NP	7	5	13	52	70	--	--	23
PCDB-11	40.8	UMCf	CH	78	54	0	0	1	26	27	36	37	73
PCDB-11	50.0	UMCf	CH	72	52	0	0	1	24	25	53	22	75
PCDB-11	58.5	UMCf (sandy interval)	SM	16	NP	0	1	13	61	75	--	--	25
PCDB-11	68.3	UMCf	CH	73	53	0	0	0	1	1	49	50	99
PCDB-11	78.7	UMCf	CH	63	36	0	0	2	40	42	45	13	58
PCBD-11	86.2	UMCf	CH	63	35	0	0	2	41	43	48	9	57
Eastside Sub-Area Well Pilot Borings													
ES-1	14.5	Alluvium	SM	24	1	2	17	41	20	78	15	5	20
ES-1	24.2	Alluvium	SM	NP	NP	7	34	29	10	73	14	6	20
ES-1	35.2	Alluvium	SM	25	7	4	13	29	14	56	26	14	40
ES-1	44.0	Alluvium	SM	25	5	20	25	23	11	60	13	7	20
ES-1	54.0	UMCf	ML	38	9	0	0	3	26	29	57	14	71
ES-1	65.3	UMCf	MH	54	21	0	0	0	22	22	65	13	78
ES-1	74.0	UMCf	ML	43	15	0	0	0	16	16	69	15	84
ES-1	85.5	UMCf	ML	37	6	0	0	0	26	26	60	15	74
ES-1	94.0	UMCf	MH	65	20	0	0	0	18	18	68	14	82
ES-1	103.8	UMCf	ML	32	5	0	0	0	38	38	51	11	62
ES-1	114.5	UMCf	CL	46	19	0	0	0	16	16	66	18	84

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
ES-4	15.2	Alluvium	SM	25	4	27	26	26	8	60	9	4	13
ES-4	25.0	Alluvium	SM	28	4	29	20	22	12	54	13	4	17
ES-4	35.2	Alluvium	SM	NP	NP	17	22	25	9	56	19	8	27
ES-4	44.7	Alluvium	SM	27	5	13	21	22	11	54	25	8	33
ES-4	57.5	UMCf	ML/SM	26	3	0	0	1	44	45	45	10	55
ES-4	68.2	UMCf	ML	44	12	0	0	0	27	27	58	15	73
ES-4	82.0	UMCf	MH	54	14	0	0	0	10	10	66	24	90
ES-4	94.5	UMCf	MH	54	14	0	0	0	16	16	69	15	84
ES-4	114.0	UMCf	ML	30	4	0	0	0	34	34	56	10	66
ES-8B	15.0	Alluvium	SP-SM	NP	NP	15	26	37	11	73	8	4	12
ES-8B	25.0	Alluvium	SM	22	2	23	27	29	7	63	9	5	14
ES-8B	35.0	Alluvium	SP-SM	NP	NP	23	26	26	14	66	8	3	11
ES-8B	40.5	UMCf	MH	57	11	0	0	0	29	29	52	19	71
ES-8B	44.0	UMCf	CH	98	17	0	0	0	11	11	67	22	89
ES-8B	55.0	UMCf	CH	125	13	0	0	0	13	13	61	26	87
ES-8B	61.0	UMCf	MH	68	11	0	0	0	9	9	65	26	91
ES-8B	65.0	UMCf	CH	106	19	0	0	0	15	15	64	21	85
ES-8B	75.0	UMCf	MH	76	16	0	0	0	0	0	57	43	100
ES-8B	85.0	UMCf	ML	40	10	0	0	0	0	0	28	72	100
ES-8B	95.0	UMCf	ML	49	14	0	0	0	6	6	67	27	94
ES-8B	105.0	UMCf	MH	96	33	0	0	0	0	0	62	38	100
ES-8B	115.0	UMCf	MH	100	42	0	0	0	1	1	61	38	99
ES-8B	118.5	UMCf	CH	96	61	0	0	0	13	13	54	33	87
ES-9	15.0	Alluvium	SP-SC	26	5	22	42	23	6	70	6	2	8
ES-9	25.0	Alluvium	SP-SM	22	2	27	39	20	7	66	4	2	7
ES-9	35.0	Alluvium	GM	20	1	40	25	17	4	46	8	5	13
ES-9	45.0	UMCf	MH	65	20	0	0	0	10	10	68	22	90
ES-9	55.0	UMCf	MH	108	56	0	0	0	4	4	61	35	96
ES-9	65.0	UMCf	MH	97	42	0	0	0	0	0	63	37	100
ES-9	75.0	UMCf	MH	58	18	0	0	0	0	0	57	43	100
ES-9	85.0	UMCf	MH	66	23	0	0	0	6	6	69	25	94
ES-9	95.0	UMCf	MH	77	33	0	0	0	0	0	58	42	100
ES-9	105.0	UMCf	MH	90	34	0	0	0	3	3	71	26	97
ES-9	115.0	UMCf	MH	72	22	0	0	0	2	2	65	33	98

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
ES-10	14.0	Alluvium	GP-GM	41	6	52	24	8	6	38	7	3	10
ES-10	25.0	UMCf	MH	69	26	0	0	0	0	0	41	59	100
ES-10	35.0	UMCf	MH	61	17	0	0	0	1	1	59	40	99
ES-10	45.0	UMCf	MH	99	27	0	0	0	0	0	58	42	100
ES-10	55.0	UMCf	MH	115	12	0	0	0	15	15	60	25	85
ES-10	65.0	UMCf	MH	76	20	0	0	0	0	0	42	58	100
ES-10	75.0	UMCf	MH	53	0	0	0	0	0	0	68	32	100
ES-10	85.0	UMCf	MH	82	23	0	0	0	5	5	67	28	95
ES-10	95.0	UMCf	CH	73	40	0	0	0	1	1	57	42	99
ES-10	105.0	UMCf	MH	117	55	0	0	0	8	8	61	31	92
ES-10	115.0	UMCf	MH	100	37	0	0	0	14	14	69	17	86
ES-12	11.0	Alluvium	SP-SM	NR	NR	16	38	33	9	80	3	1	4
ES-12	15.0	Alluvium	SM	33	10	12	27	36	10	73	11	4	15
ES-12	21.0	UMCf	MH	85	21	0	0	0	4	4	62	34	96
ES-12	28.0	UMCf	MH	58	15	0	0	0	0	0	60	40	100
ES-12	35.0	UMCf	MH	66	22	0	0	0	0	0	61	39	100
ES-12	42.0	UMCf	MH	80	31	0	0	0	1	1	59	40	99
ES-12	55.0	UMCf	MH	68	23	0	0	0	0	0	57	43	100
ES-12	75.0	UMCf	MH	76	21	0	0	0	0	0	40	60	100
ES-12	85.0	UMCf	MH	67	22	0	0	0	0	0	34	66	100
ES-12	95.0	UMCf	MH	80	14	0	0	0	0	0	36	64	100
ES-12	105.4	UMCf	MH	79	34	0	0	0	0	0	53	47	100
ES-15	14.5	Alluvium	GP	NP	NP	22	32	35	8	75	2	1	3
ES-15	24.5	Alluvium	GP	NP	NP	27	42	22	5	69	3	1	4
ES-15	35.0	Alluvium	GP	NP	NP	32	35	26	4	65	3	1	4
ES-15	44.5	Alluvium	GP-GM	NP	NP	38	32	18	5	55	5	2	7
ES-15	54.7	Alluvium	GP	18	3	35	38	23	2	63	1	1	2
ES-15	65.0	UMCf	MH	100*	53	0	0	0	1	1	73	26	99
ES-15	74.2	UMCf	MH	80	24	0	0	0	0	0	57	43	100
ES-15	84.5	UMCf	MH	61	27	0	0	0	0	0	65	35	100
ES-15	94.5	UMCf	MH	59	16	0	0	0	8	8	72	20	92
ES-15	104.5	UMCf	MH	77	32	0	0	0	3	3	74	23	97
ES-15	112.0	UMCf	ML	41	6	0	0	0	12	12	63	25	88
ES-15	118.5	UMCf	MH	120*	66	0	0	0	1	1	63	36	99

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
ES-17	55.5	UMCf	MH	62	21	0	0	0	1	1	67	32	99
ES-17	74.5	UMCf	MH	54	18	0	0	0	1	1	66	33	99
ES-31	15.0	Alluvium	SM	29	2	25	25	28	10	63	9	3	12
ES-31	25.0	Alluvium	GM	22	2	31	26	23	7	56	9	3	12
ES-31	35.2	Alluvium	SM	42	7	12	17	14	25	55	27	6	33
ES-31	45.0	UMCf	MH	105*	41	0	0	0	16	16	51	33	84
ES-31	55.0	UMCf	MH	111*	41	0	0	0	30	30	59	11	70
ES-31	68.0	UMCf	MH	115*	66	0	0	0	3	3	65	32	97
ES-31	82.0	UMCf	MH	232*	141	0	0	0	4	4	65	31	96
ES-31	95.0	UMCf	MH	171*	99	0	0	0	0	0	61	39	100
ES-31	115.0	UMCf	ML	39	10	0	0	0	16	16	44	40	84
Eastside Sub-Area Soil Borings													
ESB-3	14.5	Alluvium	GM	23	1	32	22	22	9	53	12	3	15
ESB-3	29.5	Alluvium	SM	23	1	26	20	23	13	56	14	5	19
ESB-3	44.5	Alluvium	SM	26	1	14	20	37	12	69	12	4	16
ESB-3	54.5	UMCf	MH	73	24	0	0	0	12	12	57	31	88
ESB-3	64.5	UMCf	MH	81	26	0	0	0	15	15	59	26	85
ESB-3	77.0	UMCf	MH	91	49	0	0	0	10	10	79	11	90
ESB-3	94.5	UMCf	MH	98	32	0	0	0	24	24	61	15	76
ESB-3	114.5	UMCf	MH	56	18	0	0	0	8	8	52	40	92
ESB-3	132.0	UMCf	MH	77	35	0	0	0	3	3	76	21	97
ESB-3	147.5	UMCf	MH	91	45	0	0	0	3	3	54	43	97
ESB-14	13.0	Alluvium	SM	48	8	10	23	34	18	75	10	4	14
ESB-14	15.5	UMCf	MH	58	20	0	0	0	7	7	59	34	93
ESB-14	21.0	UMCf	MH	79	21	0	0	0	13	13	59	28	87
ESB-14	25.0	UMCf	MH	54	9	0	0	0	3	3	66	31	97
ESB-14	35.0	UMCf (sandy interbed)	ML	29	0	0	0	0	35	35	42	23	65
ESB-14	45.0	UMCf	CH	73	39	0	0	0	2	2	61	37	98
ESB-14	55.0	UMCf	MH	80	33	0	0	0	1	1	49	50	99
ESB-14	65.0	UMCf	MH	58	27	0	0	0	0	0	19	81	100
ESB-14	75.0	UMCf	ML	44	12	0	0	0	0	0	26	74	100
ESB-14	85.0	UMCf	MH	63	31	0	0	0	0	0	15	85	100
ESB-14	105.0	UMCf	CH	86	50	0	0	0	0	0	64	36	100

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
ESB-14	125.0	UMCf	ML	45	12	0	0	0	0	0	21	79	100
ESB-14	145.0	UMCf	MH	58	16	0	0	0	2	2	55	43	98
ESB-18	14.5	Alluvium	GP-GM	25	1	43	21	24	6	51	4	2	6
ESB-18	25.0	Alluvium	GP	23	2	45	27	20	4	52	2	1	3
ESB-18	35.0	Alluvium	GP-GM	22	0	40	20	27	7	54	4	2	6
ESB-18	45.0	UMCf	MH	100*	26	0	0	0	1	1	66	33	99
ESB-18	55.0	UMCf	MH	90	33	0	0	0	0	0	67	33	100
ESB-18	64.5	UMCf	MH	135*	63	0	0	0	12	12	64	24	88
ESB-18	74.5	UMCf	MH	64	20	0	0	0	4	4	71	25	96
ESB-18	85.0	UMCf	MH	97	24	0	0	0	16	16	68	16	84
ESB-18	95.0	UMCf	MH	115*	56	0	0	0	0	0	53	47	100
ESB-18	104.5	UMCf	MH	92	38	0	0	0	1	1	69	30	99
ESB-18	115.0	UMCf	MH	54	19	0	0	0	3	3	65	32	97
ESB-18	124.5	UMCf	MH	97	45	0	0	0	0	0	60	40	100
ESB-18	134.5	UMCf	MH	96	49	0	0	0	0	0	43	57	100
ESB-18	144.5	UMCf	MH	102*	47	0	0	0	7	7	68	25	93
Paleochannel Transect G Borings													
TB-G1	63.5	Alluvium	SC	29	7	9	22	28	17	67	14	9	23
TB-G1	66.0	UMCf	ML/SM	45	2	0	0	0	40	40	48	12	60
TB-G1	69.5	UMCf	MH	53	3	0	0	0	16	16	64	20	84
TB-G1	77.5	UMCf	MH	56	3	0	0	0	16	16	66	18	84
TB-G1	87.5	UMCf	MH	53	10	0	0	5	19	24	59	17	76
TB-G1	117.5	UMCf	MH	51	8	0	0	0	7	7	70	23	93
TB-G1	127.5	UMCf	MH	57	8	0	0	0	16	16	66	18	84
TB-G1	139.5	UMCf	MH	54	10	0	0	0	7	7	67	26	93
TB-G1	142.0	UMCf	MH	58	12	0	0	0	6	6	67	27	94
TB-G1	144.5	UMCf	MH	61	13	0	0	0	7	7	71	23	93
TB-G1	146.0	UMCf	MH	58	6	0	0	0	11	11	68	21	89
TB-G1	149.0	UMCf	MH	48	10	0	0	0	12	12	65	23	88
TB-G1	159.5	UMCf	MH	66	16	0	0	0	3	3	72	25	97
TB-G1	161.5	UMCf	MH	46	10	0	0	0	6	6	66	28	94

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
TB-G2	10.5	Alluvium	SM	33	7	16	28	28	15	70	10	3	14
TB-G2	19.5	Alluvium	SM	NR	NR	6	22	48	13	83	8	3	11
TB-G2	30.5	Alluvium	SM	30	4	11	29	33	12	75	11	3	14
TB-G2	41.0	Alluvium	SM	27	7	13	32	27	9	68	14	5	19
TB-G2	50.0	Alluvium	SP-SM	NR	NR	19	36	26	9	71	7	3	10
TB-G2	59.0	Alluvium	SP-SC	NR	NR	13	25	43	11	79	6	2	8
TB-G2	64.0	Alluvium	SP	NP	NP	18	42	31	5	78	3	1	4
TB-G2	67.0	UMCf	ML	47	5	0	0	0	13	13	70	17	87
TB-G2	78.0	UMCf	MH	53	11	0	0	0	19	19	62	19	81
TB-G2	86.0	UMCf	MH	53	7	0	0	0	17	17	65	18	83
TB-G2	91.5	UMCf	ML	45	8	0	0	0	10	10	70	20	90
TB-G2	111.0	UMCf	ML	40	2	0	0	0	8	8	68	24	92
TB-G2	120.0	UMCf	MH	56	10	0	0	0	11	11	68	21	89
TB-G2	129.0	UMCf	MH	61	15	0	0	0	8	8	71	21	92
TB-G2	139.0	UMCf	MH	54	18	0	0	0	5	5	65	30	95
TB-G2	145.5	UMCf	ML	47	12	0	0	0	13	13	63	24	87
TB-G2	151.5	UMCf	MH	73	18	0	0	0	4	4	68	28	96
TB-G5	11.0	Alluvium	SP-SM	NR	NR	8	27	45	13	84	6	2	8
TB-G5	20.0	Alluvium	SP-SM	NR	NR	12	38	34	9	81	6	1	7
TB-G5	30.0	Alluvium	SP-SM	NR	NR	12	32	40	9	81	5	2	7
TB-G5	40.0	Alluvium	SM	30	6	6	13	38	16	67	20	7	27
TB-G5	50.0	Alluvium	SM	25	5	4	20	41	14	75	15	6	21
TB-G5	59.0	Alluvium	SP-SM	NP	NP	13	20	41	16	77	8	3	11
TB-G5	62.5	Alluvium	SP-SM	NR	NR	24	25	31	11	67	7	2	9
TB-G5	70.0	UMCf	ML	47	9	0	0	0	0	0	57	43	100
TB-G5	80.0	UMCf	MH	61	5	0	0	0	4	4	66	29	96
TB-G5	90.5	UMCf	ML	46	5	0	0	0	13	13	63	25	87
TB-G5	102.5	UMCf	MH	51	6	0	0	0	2	2	69	29	98
TB-G5	111.2	UMCf	ML	36	3	0	0	0	25	25	55	20	75
TB-G5	120.0	UMCf	MH	55	8	0	0	0	13	13	64	23	87
TB-G5	130.0	UMCf	ML	44	8	0	0	0	13	13	63	24	87

TABLE F-2a. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Soil Classification
Properties Nevada Environmental Response Trust Site; Henderson, Nevada

Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Atterberg Limits		Grain Size Distribution (wt. percent)							
				Liquid Limit	Plasticity Index	% Gravel	Sand Size			% Sand	Fines		% Fines
							Coarse	Medium	Fine		Silt	Clay	
TB-G5	139.5	UMCf	MH	68	9	0	0	0	7	7	67	26	93
TB-G5	143.6	UMCf	MH	60	10	0	0	0	1	1	61	37	99
TB-G5	147.0	UMCf	MH	64	14	0	0	0	6	6	65	29	94
TB-G5	159.5	UMCf	MH	54	8	0	0	0	8	8	60	32	92

Notes:

Methodologies for particle size and Atterberg Limits were ASTM D4464M/D422 and ASTM D4318, respectively.

Soil physical properties testing conducted by Core Laboratories of Bakersfield, California.

"--" means for particle size by ASTM D422M, no separation of silt and clay.

* An asterisk means grain size analysis indicates swelling clays.

(1) Unified Soil Classification System (UCSC) soil classification

(2) Abundant caliche nodules up to 1-inch diameter

na = not tested.

NP = Non-Plastic

NR = Not Required

Testing of soil samples from the NERT Off-Site Study Area was conducted by PTS Laboratories of Santa Fe Springs, California and Houston, Texas.

Testing of soil samples from the Eastside Sub-Area was conducted by Core Laboratories LP of Bakersfield, California.

TABLE F-2b. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
NERT Off-Site Study Area Well Pilot Borings									
PC-134D	52.1	UMCf	CH/SC	--	0.89	68	22		--
PC-134D	84.5	UMCf	MH	--	0.82	65	19		--
PC-137D	62.3	UMCf	CL	--	1.34	46	12		--
PC-137D	89.5	UMCf	MH	--	1.17	54	10		--
PC-153	36.0	UMCf	MH	--	0.64	66	15		--
PC-164	32.0	UMCf	CH/SC	32	1.04	59	15	V	3.15 E-06
PC-164	36.0	UMCf	CH	35	1.17	56	14	V	3.07 E-06
PC-166	33.7	Alluvium	SC	18	1.74	37	6	V	6.64 E-07
PC-167	17.8	UMCf	CH	30	1.13	54	15	V	3.05 E-06
PC-167	21.3	UMCf	CH	35	1.09	54	13	V	2.48 E-06
PC-170	37.0	UMCf	SM	14	1.53	48	23		--
PC-170	43.5	UMCf	CH	26	1.50	50	17		--
PC-170	47.5	UMCf	CH	29	1.12	66	21		--
PC-170	49.0	UMCf	CH	25	1.18	54	23		--
PC-170	50.2	UMCf (sandy interval)	SP-SM	71	0.79	73	25		--
PC-178	37.0	UMCf	CH	39	1.31	59	13	V	1.41 E-06
PC-178	45.0	UMCf	CH	39	1.13	56	10	V	5.02 E-07
PC-178	55.0	UMCf	SC	42	0.91	72	18		--
PC-178	61.0	UMCf	CH	29	0.98	66	18		--
PC-178	72.5	UMCf	CH	36	1.31	62	15		--
PC-188	39.5	UCMf	CH/SC	57	1.00	60	16		--
PC-188	56.0	UMCf	SC	52	1.02	66	19		--
PC-188	66.0	UMCf	CH/SC	44	1.18	58	6	V	2.92 E-07
PC-188	75.5	UMCf	CH	44	1.22	51	6	V	9.53 E-08
PC-188	86.5	UMCf	CH	52	1.09	56	5	V	2.37 E-07
PC-193	14.5	Alluvium	CH/SC	29	1.29	55	14	V	5.35 E-06
PC-193	26.3	Alluvium	CH/SC	46	1.12	52	11	V	1.51 E-06
PC-193	36.3	UMCf	CL/SC	28	1.41	47	11		--
PC-193	46.3	UMCf	CL/SC	43	1.19	58	14		--
PC-195	57.0	UMCf	CH	74	0.99	65	22		--
PC-195	68.5	UMCf	CH	40	1.28	61	16		--

TABLE F-2b. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
NERT Off-Site Study Area Soil Borings									
PCDB-4	33.5	UMCf	CH	60	1.05	55	11	V	1.99 E-07
PCDB-4	43.5	UMCf	CH	44	1.28	54	10	V	8.65 E-07
PCDB-4	71.0	UMCf	CH	39	1.39	54	10		--
PCDB-5	46.5	Alluvium	SP	21	1.46	41	7	V	4.61 E-07
PCDB-5	54.5	UMCf	CL/SC	22	1.36	45	9	V	4.67 E-07
PCDB-5	64.0	UMCf	SC	34	1.13	56	8	V	1.07 E-05
PCDB-5	75.0	UMCf	CH	25	1.27	61	8	V	1.72 E-07
PCDB-5	87.0	UMCf	SC	40	1.23	54	14	V	3.76 E-06
PCDB-7	43.0	UMCf	CH-MH	45	1.13	56	7	V	6.04 E-07
PCDB-7	48.0	UMCf	CH	38	1.18	60	16		--
PCDB-8	23.3	UMCf	CH	45	1.03	66	14	V	8.87 E-06
PCDB-8	36.0	UMCf	CH	45	1.11	56	9	V	3.34 E-07
PCDB-8	50.0	UMCf	MH	49	1.07	63	16	V	3.81 E-06
PCDB-8	64.5	UMCf	CH	34	1.15	55	15	V	3.34 E-06
PCDB-8	80.3	UMCf	CL/SC	31	1.38	47	11	V	1.20 E-06
PCDB-8	88.3	UMCf	SC	36	1.30	53	10	V	1.34 E-06
PCBD-9	21.5	Alluvium	SP-SC	35	1.17	55	12	V	2.99 E-06
PCBD-9	31.3	UMCf	CH	48	1.10	59	11	V	7.54 E-07
PCBD-9	40.5	UMCf	CH	42	1.19	56	9	V	3.96 E-07
PCBD-9	55.0	UMCf	CH/SC	34	1.27	54	18	V	6.37 E-06
PCBD-9	67.0	UMCf	ML/SM	22	1.41	48	26	V	5.57 E-05
PCBD-9	79.5	UMCf	CH	61	1.00	63	10	V	7.56 E-07
PCDB-9	87.0	UMCf	CH/SC	45	1.12	57	13	V	1.63 E-06
PCDB-10	33.3	UMCf	CH/SC	34	1.21	60	14		
PCDB-10	40.4	UMCf	CH	23	1.36	48	5	V	5.11 E-07
PCDB-10	58.2	UMCf	CH	24	1.45	52	16		--
PCDB-10	68.5	UMCf	CH	39	1.36	47	4	V	1.25 E-07
PCDB-10	77.8	UMCf	CH	46	1.27	57	16		--
PCDB-10	85.5	UMCf	CH	54	1.12	56	8	V	5.05 E-07
PCDB-11	29.0	UMCf	SC	18	1.90	31	14	V	2.55 E-06
PCDB-11	40.8	UMCf	CH	33	1.38	55	13		--
PCDB-11	50.0	UMCf	CH	31	1.35	49	5	V	4.57 E-07
PCDB-11	58.5	UMCf (sandy interval)	SM	19	1.76	34	19		--

TABLE F-2b. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
PCDB-11	68.3	UMCf	CH	29	1.41	48	7	V	3.04 E-07
PCDB-11	78.7	UMCf	CH	36	1.23	53	15		--
PCBD-11	86.2	UMCf	CH	47	1.10	58	8	V	2.33 E-07
Eastside Sub-Area Well Pilot Borings									
ES-1	54.0	UMCf	ML	34	1.38	48	8	V	6.76 E-08
ES-1	65.3	UMCf	MH	49	1.15	57	11		--
ES-1	74.0	UMCf	ML	44	1.21	55	9		--
ES-1	85.5	UMCf	ML	43	1.23	53	14	V	1.84 E-06
ES-1	94.0	UMCf	MH	67	0.93	65	12		--
ES-1	103.8	UMCf	ML	40	1.29	51	13		--
ES-1	114.5	UMCf	CL	43	1.26	51	12	V	3.96 E-07
ES-4	57.5	UMCf	ML/SM	31	1.46	45	15	V	2.17 E-06
ES-4	68.2	UMCf	ML	51	1.17	54	13	V	2.05 E-07
ES-4	82.0	UMCf	MH	56	1.07	60	10	V	1.15 E-06
ES-4	94.5	UMCf	MH	63	1.03	60	18	V	8.66 E-08
ES-4	114.0	UMCf	ML	34	1.39	43	16	V	9.48 E-07
ES-8B	44.0	UMCf	CH	69	0.92	65	4	V	2.18 E-08
ES-8B	55.0	UMCf	CH	103	0.68	74	13		--
ES-8B	61.0	UMCf	MH	63	0.97	63	10		--
ES-8B	65.0	UMCf	CH	76	0.85	67	4		--
ES-8B	75.0	UMCf	MH	53	1.10	59	6		--
ES-8B	85.0	UMCf	ML	24	1.63	41	3	V	7.19 E-08
ES-8B	95.0	UMCf	ML	27	1.52	43	2		--
ES-8B	105.0	UMCf	MH	51	1.13	57	2		--
ES-8B	115.0	UMCf	MH	51	1.13	57	3	V	<10 E-10
ES-8B	118.5	UMCf	CH	62	0.99	63	3		--
ES-9	55.0	UMCf	MH	34	1.37	48	2		--
ES-9	65.0	UMCf	MH	34	1.39	47	6	V	<10 E-10
ES-9	75.0	UMCf	MH	32	1.44	46	3		--
ES-9	85.0	UMCf	MH	35	1.38	48	4		--
ES-9	95.0	UMCf	MH	40	1.30	52	1		--
ES-9	105.0	UMCf	MH	35	1.37	48	5	V	<10 E-10
ES-9	115.0	UMCf	MH	38	1.31	51	3		--

TABLE F-2b. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
ES-10	25.0	UMCf	MH	31	1.44	48	4		--
ES-10	35.0	UMCf	MH	33	1.38	49	2	V	1.62 E-08
ES-10	45.0	UMCf	MH	61	0.98	63	3		--
ES-10	55.0	UMCf	MH	80	0.81	69	6		--
ES-10	65.0	UMCf	MH	49	1.14	57	7		--
ES-10	75.0	UMCf	MH	37	1.38	48	5		--
ES-10	85.0	UMCf	MH	29	1.53	42	3	V	3.86 E-08
ES-10	95.0	UMCf	CH	36	1.36	49	3		--
ES-10	105.0	UMCf	MH	39	1.31	50	3		--
ES-10	115.0	UMCf	MH	28	1.56	41	2		--
ES-12	21.0	UMCf	MH	41	1.27	51	4		--
ES-12	28.0	UMCf	MH	35	1.37	48	1	V	<10 E-10
ES-12	35.0	UMCf	MH	39	1.32	50	1		--
ES-12	42.0	UMCf	MH	40	1.28	52	3		--
ES-12	55.0	UMCf	MH	41	1.29	52	2		--
ES-12	75.0	UMCf	MH	60	1.01	61	11	V	4.22 E-08
ES-12	85.0	UMCf	MH	39	1.32	52	5		--
ES-12	95.0	UMCf	MH	35	1.41	46	12	V	1.21 E-05
ES-12	105.4	UMCf	MH	40	1.28	52	3		--
ES-15	65.0	UMCf	MH	61	0.99	63	6	V	1.67 E-08
ES-15	74.2	UMCf	MH	37	1.30	52	1		--
ES-15	84.5	UMCf	MH	36	1.41	47	2		--
ES-15	94.5	UMCf	MH	34	1.50	42	2		--
ES-15	104.5	UMCf	MH	41	1.35	49	3	V	4.11 E-08
ES-15	118.5	UMCf	MH	51	1.10	53	7	V	<10 E-10
ES-17	55.5	UMCf	MH	34	1.42	46	3	V	5.39 E-09
ES-17	74.5	UMCf	MH	34	1.46	45	5	V	<10 E-10
ES-31	45.0	UMCf	MH	65	0.95	65	10		--
ES-31	55.0	UMCf	MH	84	0.80	70	7	V	3.43 E-08
ES-31	68.0	UMCf	MH	50	1.11	58	6		--
ES-31	82.0	UMCf	MH	88	0.78	71	6	V	1.52 E-08
ES-31	95.0	UMCf	MH	81	0.84	68	7	V	5.15 E-09
ES-31	115.0	UMCf	ML	32	1.45	48	5		--

TABLE F-2b. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
Eastside Sub-Area Soil Borings									
ESB-3	54.5	UMCf	MH	65	0.96	65	8	V	1.44 E-08
ESB-3	64.5	UMCf	MH	79	0.84	69	9	V	6.38 E-08
ESB-3	77.0	UMCf	MH	63	0.95	64	6	V	1.10 E-08
ESB-3	94.5	UMCf	MH	124	0.60	77	6	V	6.72 E-08
ESB-3	114.5	UMCf	MH	43	1.24	55	10	V	1.18 E-07
ESB-3	132.0	UMCf	MH	42	1.27	53	7		--
ESB-3	147.5	UMCf	MH	44	1.20	55	4		--
ESB-14	15.5	UMCf	MH	25	1.48	44	4		--
ESB-14	21.0	UMCf	MH	56	1.03	61	5	V	2.59 E-08
ESB-14	25.0	UMCf	MH	25	1.56	42	3		--
ESB-14	35.0	UMCf (sandy interbed)	ML	16	1.52	42	21	V	1.83 E-04
ESB-14	45.0	UMCf	CH	34	1.25	52	4	V	<10 E-10
ESB-14	55.0	UMCf	MH	47	1.15	57	2		--
ESB-14	65.0	UMCf	MH	37	1.37	51	6	V	2.64 E-08
ESB-14	75.0	UMCf	ML	32	1.45	47	6		--
ESB-14	85.0	UMCf	MH	38	1.34	50	8	V	1.97 E-04
ESB-14	105.0	UMCf	CH	35	1.33	47	3		--
ESB-14	125.0	UMCf	ML	33	1.46	45	7		--
ESB-14	145.0	UMCf	MH	40	1.29	52	4		--
ESB-18	55.0	UMCf	MH	45	1.19	55	5	V	2.10 E-09
ESB-18	64.5	UMCf	MH	42	1.25	53	2		--
ESB-18	74.5	UMCf	MH	24	1.59	38	3		--
ESB-18	85.0	UMCf	MH	23	1.59	38	7	V	7.10 E-08
ESB-18	95.0	UMCf	MH	27	1.47	42	5		--
ESB-18	104.5	UMCf	MH	39	1.28	51	2		--
ESB-18	115.0	UMCf	MH	22	1.63	35	4	V	<10 E-10
ESB-18	124.5	UMCf	MH	32	1.43	46	3		--
ESB-18	134.5	UMCf	MH	36	1.35	49	3		--
ESB-18	144.5	UMCf	MH	23	1.56	37	1	V	3.31 E-08

TABLE F-2b. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
Paleochannel Transect G Borings									
TB-G1	66.0	UMCf	ML/SM	41	1.22	54	8	V	2.50 E-07
TB-G1	69.5	UMCf	MH	44	1.19	55	5		--
TB-G1	77.5	UMCf	MH	53	1.04	60	14	V	9.27 E-07
TB-G1	87.5	UMCf	MH	43	1.22	54	4		--
TB-G1	117.5	UMCf	MH	40	1.25	53	5	V	4.74 E-08
TB-G1	127.5	UMCf	MH	48	1.12	57	6		--
TB-G1	139.5	UMCf	MH	42	1.21	55	5	V	9.85 E-08
TB-G1	142.0	UMCf	MH	44	1.19	55	4		--
TB-G1	144.5	UMCf	MH	40	1.23	54	3	V	8.76 E-09
TB-G1	149.0	UMCf	MH	37	1.30	51	3		--
TB-G1	159.5	UMCf	MH	39	1.27	53	3	V	<10 E-10
TB-G1	161.5	UMCf	MH	29	1.45	46	1		--
TB-G2	78.0	UMCf	MH	44	1.20	54	7		--
TB-G2	86.0	UMCf	MH	50	1.12	58	6		--
TB-G2	91.5	UMCf	ML	35	1.35	50	5		--
TB-G2	111.0	UMCf	ML	32	1.33	51	6		--
TB-G2	120.0	UMCf	MH	42	1.21	54	4		--
TB-G2	129.0	UMCf	MH	43	1.22	54	5		--
TB-G2	139.0	UMCf	MH	33	1.39	48	4		--
TB-G2	145.5	UMCf	ML	26	1.54	43	3		--
TB-G2	151.5	UMCf	MH	50	1.11	58	4		--

**TABLE F-2b. SUMMARY OF OU-2 RI PHYSICAL TESTING RESULTS - Physical Properties
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Moisture Content (% wt.)	Dry Bulk Density (g/cc)	POROSITY		Sample Orientation	Hydraulic Conductivity (2) (cm/s)
						Total (% Vb)	Effective (% Vb)		
TB-G5	70.0	UMCf	ML	36	1.34	51	6	V	1.09 E-07
TB-G5	80.0	UMCf	MH	57	1.03	61	13		--
TB-G5	90.5	UMCf	ML	44	1.18	55	15	V	1.92 E-06
TB-G5	102.5	UMCf	MH	42	1.23	54	6		--
TB-G5	111.2	UMCf	ML	30	1.45	46	9	V	1.85 E-07
TB-G5	120.0	UMCf	MH	58	1.00	62	17		--
TB-G5	130.0	UMCf	ML	39	1.26	52	13	V	1.66 E-06
TB-G5	139.5	UMCf	MH	68	0.92	65	10		--
TB-G5	143.6	UMCf	MH	50	1.10	58	9	V	4.55 E-08
TB-G5	147.0	UMCf	MH	46	1.18	56	4		--
TB-G5	159.5	UMCf	MH	46	1.17	56	11	V	3.02 E-07

Notes:

Methodology for Physical Properties Data: ASTM D2237, API RP 40, Modified ASTM D425, EPA 9100.

Soil physical properties testing conducted by Core Laboratories LP of Bakersfield, California.

(1) Unified Soil Classification System (UCSC) soil classification

(2) Permeability to water and conductivity measured at saturated conditions.

(3) Effective Porosity = no pore fluids in place; all interconnected pore channels.

(4) Sample Orientation: H = horizontal; V = vertical.

(5) Water = 0.9981 grams/cubic centimeter (g/cc)

Vb = Bulk Volume, cc

"--" means not tested

UMCf = Upper Muddy Creek formation.

**TABLE F-2c. SUMMARY OF OU-2 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (TOC) (mg/kg)
NERT Off-Site Study Area Well Pilot Borings				
PC-134D	52.1	UMCf	CH/SC	330
PC-134D	63.4	UMCf	SC	--
PC-134D	84.5	UMCf	MH	3,900
PC-134D	89.3	UMCf	CH	--
PC-137D	60.0	UMCf	SM	--
PC-137D	62.3	UMCf	CL	2,550
PC-137D	67.0	UMCf	MH	--
PC-137D	89.5	UMCf	MH	4,600
PC-153	17.0	Alluvium	SP	<100
PC-153	36.0	UMCf	MH	500
PC-159	11.0	Alluvium	SW-SM	--
PC-159	13.5	Alluvium	GP	2,100
PC-159	16.0	Alluvium	SW-SM	--
PC-159	18.3	Alluvium	SP-SM	<100
PC-159	21.0	Alluvium	SW-SM	--
PC-159	24.0	Alluvium	SW-SM	<100
PC-162	11.0	Alluvium	SM	587
PC-162	15.0	Alluvium	SM	664
PC-162	23.5	Alluvium	SP-SM	296
PC-162	25.5	Alluvium	SC	197
PC-163	12.5	Alluvium	SM	568
PC-164	12.5	Alluvium	SP	585
PC-164	32.0	UMCf	CH/SC	778
PC-164	36.0	UMCf	CH	666
PC-165	12.0	Alluvium	SP	786
PC-165	31.0	Alluvium	SP-SM	589
PC-165	36.5	Alluvium	GP	494
PC-166	11.5	Alluvium	SP-SM	865
PC-166	22.0	Alluvium	SP-SM	392
PC-166	33.7	Alluvium	SC	202
PC-167	11.0	Alluvium	SW	298
PC-167	17.8	UMCf	CH	493
PC-167	21.3	UMCf	CH	594
PC-170	22.5	Alluvium	SP	393
PC-170	37.0	UMCf	SM	206
PC-170	43.5	UMCf	CH	304
PC-170	47.5	UMCf	CH	304
PC-170	49.0	UMCf	CH	104
PC-170	50.2	UMCf (sandy interval)	SP-SM	104
PC-172	13.5	Alluvium	SP	495
PC-172	18.5	Alluvium	SP-SM	492
PC-172	23.5	Alluvium	SP-SM	686

**TABLE F-2c. SUMMARY OF OU-2 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (TOC) (mg/kg)
PC-175	12.7	Alluvium	SP-SM	480
PC-175	23.0	Alluvium	SM	494
PC-175	32.7	Alluvium	SC	704
PC-175	39.5	Alluvium	SM	299
PC-178	27.7	Alluvium	SP	297
PC-178	37.0	UMCf	CH	397
PC-178	45.0	UMCf	CH	578
PC-178	55.0	UMCf	SC	503
PC-178	61.0	UMCf	CH	205
PC-178	72.5	UMCf	CH	2,357
PC-188	10.5	Alluvium	SW-SM	594
PC-188	39.5	UMCf	CH/SC	593
PC-188	56.0	UMCf	SC	302
PC-188	66.0	UMCf	CH/SC	500
PC-188	75.5	UMCf	CH	493
PC-188	86.5	UMCf	CH	492
PC-193	11.0	Alluvium	SC	390
PC-193	14.5	Alluvium	CH/SC	300
PC-193	26.3	Alluvium	CH/SC	201
PC-193	36.3	UMCf	CL/SC	397
PC-193	46.3	UMCf	CL/SC	489
PC-195	57.0	UMCf	CH	106
PC-195	68.5	UMCf	CH	488
NERT Off-Site Study Area Soil Borings				
PCDB-4	33.5	UMCf	CH	861
PCDB-4	43.5	UMCf	CH	585
PCDB-4	57.0	UMCf	CH	302
PCDB-4	68.0	UMCf	CH	300
PCDB-4	71.0	UMCf	CH	883
PCDB-5	16.0	Alluvium	SW	304
PCDB-5	46.5	Alluvium	SP	689
PCDB-5	54.5	UMCf	CL/SC	400
PCDB-5	64.0	UMCf	SC	879
PCDB-5	75.0	UMCf	CH	575
PCDB-5	87.0	UMCf	SC	1,226
PCDB-7	34.5	UMCf	CH-MH	202
PCDB-7	43.0	UMCf	CH-MH	12,990
PCDB-7	48.0	UMCf	CH	4,427
PCDB-7	54.5	UMCf	CH	6,668
PCDB-8	8.0	Alluvium	SP	977
PCDB-8	23.3	UMCf	CH	584
PCDB-8	36.0	UMCf	CH	395
PCDB-8	50.0	UMCf	MH	393
PCDB-8	64.5	UMCf	CH	493

**TABLE F-2c. SUMMARY OF OU-2 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (TOC) (mg/kg)
PCDB-8	80.3	UMCf	CL/SC	200
PCDB-8	88.3	UMCf	SC	106
PCDB-9	14.5	Alluvium	SC	590
PCBD-9	21.5	Alluvium	SP-SC	494
PCBD-9	31.3	UMCf	CH	396
PCBD-9	40.5	UMCf	CH	397
PCBD-9	55.0	UMCf	CH/SC	298
PCBD-9	67.0	UMCf	ML/SM	397
PCBD-9	79.5	UMCf	CH	482
PCDB-9	87.0	UMCf	CH/SC	1,342
PCDB-10	20.0	Alluvium	SP-SM	300
PCDB-10	33.3	UMCf	CH/SC	791
PCDB-10	40.4	UMCf	CH	397
PCDB-10	48.7	UMCf (sandy interval)	SC	104
PCDB-10	58.2	UMCf	CH	487
PCDB-10	68.5	UMCf	CH	392
PCDB-10	77.8	UMCf	CH	601
PCDB-10	85.5	UMCf	CH	493
PCBD-11	16.7	Alluvium	SP-SC	498
PCDB-11	29.0	UMCf	SC	294
PCDB-11	40.8	UMCf	CH	497
PCDB-11	50.0	UMCf	CH	202
PCDB-11	58.5	UMCf (sandy interval)	SM	29
PCDB-11	68.3	UMCf	CH	203
PCDB-11	78.7	UMCf	CH	301
PCBD-11	86.2	UMCf	CH	401
Eastside Sub-Area Well Pilot Borings				
ES-1	14.5	Alluvium	SM	4,800
ES-1	24.2	Alluvium	SM	4,300
ES-1	35.2	Alluvium	SM	4,400
ES-1	44.0	Alluvium	SM	2,400
ES-1	54.0	UMCf	ML	3,800
ES-1	65.3	UMCf	MH	4,100
ES-1	74.0	UMCf	ML	3,700
ES-1	85.5	UMCf	ML	3,900
ES-1	94.0	UMCf	MH	4,500
ES-1	103.8	UMCf	ML	4,000
ES-1	114.5	UMCf	CL	2,900
ES-4	15.2	Alluvium	SM	4,900
ES-4	25.0	Alluvium	SM	4,900
ES-4	35.2	Alluvium	SM	3,700
ES-4	44.7	Alluvium	SM	3,800
ES-4	57.5	UMCf	ML/SM	2,800
ES-4	68.2	UMCf	ML	3,700
ES-4	82.0	UMCf	MH	4,200

**TABLE F-2c. SUMMARY OF OU-2 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (TOC) (mg/kg)
ES-4	94.5	UMCf	MH	4,600
ES-4	114.0	UMCf	ML	3,500
ES-8B	15.0	Alluvium	SP-SM	3,600
ES-8B	25.0	Alluvium	SM	5,500
ES-8B	35.0	Alluvium	SP-SM	3,200
ES-8B	40.5	UMCf	MH	3,900
ES-8B	44.0	UMCf	CH	4,600
ES-8B	55.0	UMCf	CH	6,000
ES-8B	61.0	UMCf	MH	4,000
ES-8B	65.0	UMCf	CH	5,100
ES-8B	75.0	UMCf	MH	5,400
ES-8B	85.0	UMCf	ML	4,300
ES-8B	95.0	UMCf	ML	4,900
ES-8B	105.0	UMCf	MH	6,400
ES-8B	115.0	UMCf	MH	6,000
ES-8B	118.5	UMCf	CH	7,500
ES-9	15.0	Alluvium	SP-SC	4,600
ES-9	25.0	Alluvium	SP-SM	3,200
ES-9	35.0	Alluvium	GM	5,100
ES-9	45.0	UMCf	MH	5,200
ES-9	55.0	UMCf	MH	5,500
ES-9	65.0	UMCf	MH	4,400
ES-9	75.0	UMCf	MH	5,400
ES-9	85.0	UMCf	MH	6,300
ES-9	95.0	UMCf	MH	7,100
ES-9	105.0	UMCf	MH	5,100
ES-9	115.0	UMCf	MH	5,700
ES-10	14.0	Alluvium	GP-GM	4,600
ES-10	25.0	UMCf	MH	3,200
ES-10	35.0	UMCf	MH	5,100
ES-10	45.0	UMCf	MH	5,200
ES-10	55.0	UMCf	MH	5,500
ES-10	65.0	UMCf	MH	4,400
ES-10	75.0	UMCf	MH	5,400
ES-10	85.0	UMCf	MH	6,300
ES-10	95.0	UMCf	CH	7,100
ES-10	105.0	UMCf	MH	5,100
ES-10	115.0	UMCf	MH	5,700
ES-12	11.0	Alluvium	SP-SM	2,800
ES-12	15.0	Alluvium	SM	5,300
ES-12	21.0	UMCf	MH	4,000
ES-12	28.0	UMCf	MH	4,900
ES-12	35.0	UMCf	MH	5,100
ES-12	42.0	UMCf	MH	5,500
ES-12	55.0	UMCf	MH	5,400
ES-12	75.0	UMCf	MH	71,200

**TABLE F-2c. SUMMARY OF OU-2 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (TOC) (mg/kg)
ES-12	85.0	UMCf	MH	24,300
ES-12	95.0	UMCf	MH	18,100
ES-12	105.4	UMCf	MH	24,800
ES-15	14.5	Alluvium	GP	2,900
ES-15	24.5	Alluvium	GP	3,100
ES-15	35.0	Alluvium	GP	1,700
ES-15	44.5	Alluvium	GP-GM	3,400
ES-15	54.7	Alluvium	GP	3,900
ES-15	65.0	UMCf	MH	4,600
ES-15	74.2	UMCf	MH	3,800
ES-15	84.5	UMCf	MH	6,100
ES-15	94.5	UMCf	MH	5,400
ES-15	104.5	UMCf	MH	6,500
ES-15	112.0	UMCf	ML	4,900
ES-15	118.5	UMCf	MH	4,400
ES-17	55.5	UMCf	MH	4,200
ES-17	74.5	UMCf	MH	7,600
ES-31	15.0	Alluvium	SM	5,900
ES-31	25.0	Alluvium	GM	3,200
ES-31	35.2	Alluvium	SM	4,300
ES-31	45.0	UMCf	MH	4,800
ES-31	55.0	UMCf	MH	5,200
ES-31	68.0	UMCf	MH	4,400
ES-31	82.0	UMCf	MH	5,300
ES-31	95.0	UMCf	MH	13,600
ES-31	115.0	UMCf	ML	15,300
Eastside Sub-Area Soil Borings				
ESB-3	14.5	Alluvium	GM	3,200
ESB-3	29.5	Alluvium	SM	3,700
ESB-3	44.5	Alluvium	SM	3,500
ESB-3	54.5	UMCf	MH	5,300
ESB-3	64.5	UMCf	MH	5,100
ESB-3	77.0	UMCf	MH	4,900
ESB-3	94.5	UMCf	MH	5,500
ESB-3	114.5	UMCf	MH	32,800
ESB-3	132.0	UMCf	MH	13,200
ESB-3	147.5	UMCf	MH	12,100
ESB-14	13.0	Alluvium	SM	3,800
ESB-14	15.5	UMCf	MH	3,700
ESB-14	21.0	UMCf	MH	4,000
ESB-14	25.0	UMCf	MH	3,800
ESB-14	35.0	UMCf (sandy interbed)	ML	2,100
ESB-14	45.0	UMCf	CH	4,400
ESB-14	55.0	UMCf	MH	4,400
ESB-14	65.0	UMCf	MH	11,100

**TABLE F-2c. SUMMARY OF OU-2 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (TOC) (mg/kg)
ESB-14	75.0	UMCf	ML	24,500
ESB-14	85.0	UMCf	MH	17,000
ESB-14	105.0	UMCf	CH	10,600
ESB-14	125.0	UMCf	ML	10,000
ESB-14	145.0	UMCf	MH	4,700
ESB-18	14.5	Alluvium	GP-GM	3,700
ESB-18	25.0	Alluvium	GP	3,400
ESB-18	35.0	Alluvium	GP-GM	3,800
ESB-18	45.0	UMCf	MH	8,600
ESB-18	55.0	UMCf	MH	6,200
ESB-18	64.5	UMCf	MH	7,100
ESB-18	74.5	UMCf	MH	9,800
ESB-18	85.0	UMCf	MH	10,600
ESB-18	95.0	UMCf	MH	5,800
ESB-18	104.5	UMCf	MH	4,900
ESB-18	115.0	UMCf	MH	4,700
ESB-18	124.5	UMCf	MH	5,900
ESB-18	134.5	UMCf	MH	6,200
ESB-18	144.5	UMCf	MH	13,900
Paleochannel Transect G Borings				
TB-G1	63.5	Alluvium	SC	3,700
TB-G1	66.0	UMCf	ML/SM	4,000
TB-G1	69.5	UMCf	MH	4,000
TB-G1	77.5	UMCf	MH	4,400
TB-G1	87.5	UMCf	MH	2,900
TB-G1	117.5	UMCf	MH	3,400
TB-G1	127.5	UMCf	MH	5,100
TB-G1	139.5	UMCf	MH	5,800
TB-G1	142.0	UMCf	MH	5,400
TB-G1	144.5	UMCf	MH	6,200
TB-G1	146.0	UMCf	MH	6,000
TB-G1	149.0	UMCf	MH	5,400
TB-G1	159.5	UMCf	MH	5,200
TB-G1	161.5	UMCf	MH	5,100
TB-G2	10.5	Alluvium	SM	4,600
TB-G2	19.5	Alluvium	SM	5,000
TB-G2	30.5	Alluvium	SM	3,100
TB-G2	41.0	Alluvium	SM	5,300
TB-G2	50.0	Alluvium	SP-SM	5,200
TB-G2	59.0	Alluvium	SP-SC	6,400
TB-G2	64.0	Alluvium	SP	6,300
TB-G2	67.0	UMCf	ML	4,500
TB-G2	78.0	UMCf	MH	4,800
TB-G2	86.0	UMCf	MH	5,400
TB-G2	91.5	UMCf	ML	5,500
TB-G2	111.0	UMCf	ML	4,300

**TABLE F-2c. SUMMARY OF OU-2 RI SOIL ANALYTICAL TESTING RESULTS -
Total Organic Carbon
Nevada Environmental Response Trust Site; Henderson, Nevada**

RI Boring Number	Depth (feet bgs)	Stratigraphic Unit	Soil Type (1)	Total Organic Carbon (TOC) (mg/kg)
TB-G2	120.0	UMCf	MH	4,000
TB-G2	129.0	UMCf	MH	4,100
TB-G2	139.0	UMCf	MH	3,800
TB-G2	145.5	UMCf	ML	3,300
TB-G2	151.5	UMCf	MH	2,900
TB-G5	11.0	Alluvium	SP-SM	4,000
TB-G5	20.0	Alluvium	SP-SM	3,900
TB-G5	30.0	Alluvium	SP-SM	3,400
TB-G5	40.0	Alluvium	SM	4,200
TB-G5	50.0	Alluvium	SM	3,800
TB-G5	59.0	Alluvium	SP-SM	3,900
TB-G5	62.5	Alluvium	SP-SM	4,600
TB-G5	70.0	UMCf	ML	4,000
TB-G5	80.0	UMCf	MH	4,200
TB-G5	90.5	UMCf	ML	3,600
TB-G5	102.5	UMCf	MH	3,700
TB-G5	111.2	UMCf	ML	2,500
TB-G5	120.0	UMCf	MH	4,200
TB-G5	130.0	UMCf	ML	3,300
TB-G5	139.5	UMCf	MH	5,600
TB-G5	143.6	UMCf	MH	3,800
TB-G5	147.0	UMCf	MH	3,400
TB-G5	159.5	UMCf	MH	4,000

Notes:

(1) Unified Soil Classification System (UCSC) soil classification

(2) Analyzed using the Walkley Black method

(3) mg/kg = milligrams per kilogram, or parts per million

"--" means not tested

UMCf = Upper Muddy Creek formation.

Soil physical properties testing conducted by Core Laboratories LP of Bakersfield, California.

ATTACHMENTS

ATTACHMENT F-1
PTS LABORATORIES, INC. REPORTS

ATTACHMENT F-1: PTS LABORATORIES, INC. REPORTS

PTS

File No.	RI Borings
45097	M-161D, M-162D, M-186D, M-189, M-190, M-191, M-192, PC-134D, PC-137D, PC-153, PC-159, RISB-09, RISB-12, RISB-23
47115	M-5D, M-22D, M-66D, M-72D, M-140D, M-201, M-202, M-221, M-222, RIDB-8, RIDB-9, RIDB-10, RIDB-13, RIDB-14
47178	M-203, M-220, RIDB-4, RIDB-7, RIDB-12, RIDB-18, RIDB-19, RIDB-20, RIDB-22, RIDB-27, RIDB-28
47229	RI-1, RI-5, RI-7, RI-9, RI-10, RI-18, RI-20, RI-21, RI-24, RI-25
47270	M-204, M-205, M-206, M-210, M-212, M-213, M-244, RIDB-16, RIDB-29, RI-12, RI-13, RI-27
47320	M-200, PCDB-2, PCDB-3, RI-17, RI-26, RI-28
47354	M-195, M-197, M-233, M-226, PC-167, PC-170, PC-178, PC-195, PCDB-4, PCDB-7, PCDB-10, PCDB-11, RI-15
47398	PC-162, PC-163, PC-164, PC-165, PC-166, PC-172, PC-175, PC-188, PC-193, PCDB-5, PCDB-8, PCDB-9



8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

April 28, 2015

Ross Russell
Environ
6001 Shellmound Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 45097, 45133, 45165
Physical Properties Data
Nert; 21-37300C M01, M02, M03

Dear Mr. Russell:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your Nert; 21-37300C M01, M02, M03 project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,
PTS Laboratories, Inc.

Michael Mark Brady, P.G.
Laboratory Director

Encl.

Project Name: Nert
 Project Number: 21-37300C M01, M02, M03

PTS File No: 45097
 Client: Environ

TEST PROGRAM - 20150415

CORE ID	Depth ft.	Core Recovery ft.	Grain Size Analysis	Atterberg Limits ASTM D4318	USCS Soil Classification ASTM D2487	TOC/foc Walkley-Black	Moisture Content ASTM D2216	Dry Bulk Density API RP40	Effective Porosity Mod. ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	Comments
		Plugs:	Grab	Grab	Calc.	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	
Date Received: 20150217											
PC-134D-52.1'-52.5'	52.1-52.5	0.40	X	X	X	X		X	X		Wrapped Core
PC-134D-63.4'-63.65'	63.4-63.7	0.40	X	X	X						Wrapped Core
PC-134D-84.5'-84.7'	84.5-84.7	0.20	X	X	X	X		X	X		Wrapped Core
PC-134D-89.3'-89.45'	89.3-89.5	0.20	X	X	X						Wrapped Core
PC-137D-60'-60.2'	60.0-60.2	0.20	X	X	X						Wrapped Core
PC-137D-62.3'-62.5'	62.3-62.5	0.20	X	X	X	X		X	X		Wrapped Core
PC-137D-67.0'-67.2'	67.0-67.2	0.20	X	X	X						Wrapped Core
PC-137D-89.5'-89.7'	89.5-89.7	0.20	X	X	X	X		X	X		Wrapped Core
PC-153-17.0	17.0	N/A	X		X	X					Jar
PC-153-36.0	36.0-37.0	1.00	X	X	X	X		X	X	X	SS Core (2)
PC-159-11.0'-11.2'	11.0-11.2	N/A	X	X	X						Jar
PC-159-13.5'-13.7'	13.5-13.7	N/A	X		X	X					Jar
PC-159-16.0'-16.3'	16.0-16.3	N/A	X	X	X						Jar
PC-159-18.3'-18.6'	18.3-18.6	N/A	X	X	X	X					Jar
PC-159-21.0'-21.3'	21.0-21.3	N/A	X	X	X						Jar
PC-159-24.0'-24.3'	24.0-24.3	N/A	X	X	X	X					Jar
RISB-09-31.0	31.0	N/A	X	X	X	X					Jar
RISB-12-24.0	24.0	N/A	X	X	X	X					Jar
RISB-23-23.0	23.0	N/A	X	X	X	X					Jar
M-189-30.0-31.0	30.0-31.0	1.00	X	X	X	X		X	X	X	SS Core (2)
M-190-34.3-34.65	34.3-34.6	0.30	X	X	X	X		X	X	X	Wrapped Core
M-190-38.0-38.3	38.0-38.3	0.30	X	X	X						Wrapped Core
M-190-47.0-47.5	47.0-47.5	0.50	X	X	X	X		X	X	X	Wrapped Core
M-191-44.0	44.0-44.5	0.50	X	X	X	X		X	X	X	SS Core (1)
M-191-46.0	46.0-46.5	0.50	X	X	X			X	X	X	SS Core (1)
M-192-35.0	35.0-36.0	1.00	X	X	X	X		X	X	X	SS Core (2)
M-192-40.0	40.0-41.0	1.00	X	X	X	X		X	X	X	SS Core (2)
Date Received: 20150306											
M-161D-105.6-106.0	105.6-106.0	0.20	X	X	X	X		X	X		Wrapped Core
M-161D-114.7-115.0	114.7-115.0	N/A	X	X	X						Jar
M-161D-126.5-126.8	126.5-126.8	N/A	X	X	X						Jar
M-161D-149.5-149.75	149.5-149.75	0.40	X	X	X	X		X	X	X	Wrapped Core
M-162D-123.7-124.0	123.7-124.0	0.40	X	X	X						Wrapped Core
M-186D-166.0	165.5-166.5	1.00	X	X	X	X		X	X		SS Core (2)
M-186D-133.7-134.0	123.7-124.0	N/A	X	X	X						Jar; Not listed on COC
M-186D-144.0-144.3	144.0-144.3	N/A	X	X	X	X					Jar; Not listed on COC
Date Received: 20150320											
M-186D-19.0	19	0.20									Jar

Project Name: Nert
 Project Number: 21-37300C M01, M02, M03

PTS File No: 45097
 Client: Environ

TEST PROGRAM - 20150415

CORE ID	Depth ft.	Core Recovery ft.	Grain Size Analysis	Atterberg Limits ASTM D4318	USCS Soil Classification ASTM D2487	TOC/foc Walkley-Black	Moisture Content ASTM D2216	Dry Bulk Density API RP40	Effective Porosity Mod. ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	Comments
		Plugs:	Grab	Grab	Calc.	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	
TOTALS:	12 SS cores 14 wrapped cores 15 jars	8.10	35	33	35	22	0	15	15	9	41

Laboratory Test Program Notes

Contaminant identification: Perchlorate, Metals, VOCs

Standard TAT for basic analysis is 15 business days.

USCS Soil Classification requires Grain Size and Atterberg Limits.

Effective Porosity: Includes Total Porosity.

Additional samples received under 45133 & 45165

PTS File No: 45097, 45133, 45165
 Client: Environ
 Report Date: 04/28/15

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: Nert
 Project No: 21-37300C M01, M02, M03

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS: ANALYSIS DATE	API RP 40 /	API RP40	Mod. ASTM D425	Mod. ASTM D425
				ASTM D2216	DENSITY BULK, g/cc	TOTAL POROSITY (2), %Vb	EFFECTIVE POROSITY, %Vb
PC-134D-52.1'-52.5'	52.2	V	20150402	--	0.89	67.5	21.5
PC-134D-84.5'-84.7'	84.6	V	20150402	--	0.82	64.9	19.1
PC-137D-62.3'-62.5'	62.4	V	20150402	--	1.34	45.5	11.9
PC-137D-89.5'-89.7'	89.6	V	20150402	--	1.17	54.3	9.9
PC-153-36.0	36.1	V	20150401	--	0.64	66.2	15.0
M-189-30.0-31.0	31.1	V	20150401	--	0.90	62.1	16.4
M-190-34.3-34.65	34.4	V	20150401	--	1.04	55.7	11.4
M-190-47.0-47.5	47.1	V	20150401	--	1.23	49.5	8.5
M-191-44.0	44.1	V	20150401	--	1.11	52.1	12.0
M-191-46.0	46.1	V	20150401	--	1.01	53.9	8.6
M-192-35.0	35.1	V	20150401	--	0.92	60.3	15.1
M-192-40.0	40.1	V	20150401	--	0.99	48.4	20.7
M-161D-105.6-106.0	105.7	V	20150330	--	1.26	53.8	16.8
M-161D-149.5-149.75	149.6	V	20150330	--	0.97	59.1	10.2
M-186D-166.0	165.6	V	20150330	--	0.66	70.5	24.0

(1) Sample Orientation: H = horizontal; V = vertical; R = remold

(2) Total Porosity = all interconnected pore channels.

Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 45097, 45133, 45165
 Client: Environ
 Report Date: 04/28/15

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY

(Methodology: API RP 40; EPA 9100)

Project Name: Nert
 Project No: 21-37300C M01, M02, M03

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	25 PSI CONFINING STRESS		
				EFFECTIVE PERMEABILITY TO WATER (2,3), millidarcy	HYDRAULIC CONDUCTIVITY (3), cm/s	INTRINSIC PERMEABILITY TO WATER (3), cm ²
PC-153-36.0	36.1	V	20150331	3.42	3.49E-06	3.37E-11
M-189-30.0-31.0	31.1	V	20150331	3.66	3.71E-06	3.61E-11
M-190-34.3-34.65	34.4	V	20150331	3.41	3.48E-06	3.36E-11
M-190-47.0-47.5	47.1	V	20150331	2.57	2.64E-06	2.54E-11
M-191-44.0	44.1	V	20150331	3.61	3.66E-06	3.57E-11
M-191-46.0	46.1	V	20150331	3.08	3.14E-06	3.04E-11
M-192-35.0	35.1	V	20150331	2.54	2.57E-06	2.51E-11
M-192-40.0	40.1	V	20150401	13.7	1.38E-05	1.35E-10
M-161D-149.5-149.75	149.6	V	20150330	3.68	3.76E-06	3.63E-11

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Effective (Native) = With as-received pore fluids in place.
 (3) Permeability to water and hydraulic conductivity measured at saturated conditions.
 Water = filtered Laboratory Fresh (tap) or Site water.

PTS File No: 45097, 45133, 45165
 Client: Environ
 Report Date: 04/28/15

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: Nert
 Project No: 21-37300C M01, M02, M03

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
PC-134D-52.1'-52.5'	52.1	20150330	85.7	28.0	57.7	CH	CH: Sandy fat clay
PC-134D-63.4'-63.65'	63.4	20150330	73.8	34.6	39.2	CH	SC: Clayey sand
PC-134D-84.5'-84.7'	84.6	20150401	95.2	42.5	52.7	MH	MH: Elastic silt
PC-134D-89.3'-89.45'	89.3	20150401	81.5	32.0	49.5	CH	CH: Fat clay with sand
PC-137D-60'-60.2'	60.1	20150401	95.6	55.6	40.0	MH	SM: Silty sand
PC-137D-62.3'-62.5'	62.4	20150401	40.1	25.1	15.0	CL	CL: Lean clay
PC-137D-67.0'-67.2'	67.1	20150402	99.5	Broken glass in sample		- -	MH: Elastic silt with sand
PC-137D-89.5'-89.7'	89.6	20150402	73.7	36.8	36.9	MH	MH: Elastic silt with sand
PC-153-17.0	17.0	20150330					SP: Poorly graded sand with gravel
PC-153-36.0	36.3	20150402	99.7	45.5	54.2	MH	MH: Sandy elastic silt
PC-159-11.0'-11.2'	11.0-11.2	20150420	16.0	Non-Plastic		NP	SW-SM: Well-graded sand with silt and gravel
PC-159-13.5'-13.7'	13.5-13.7	20150330					GP: Poorly graded gravel with sand
PC-159-16.0'-16.3'	16.0-16.3	20150420	13.2	Non-Plastic		NP	SW-SM: Well-graded sand with silt and gravel
PC-159-18.3'-18.6'	18.3-18.6	20150420	22.2	Non-Plastic		NP	SP-SM: Poorly graded sand with silt
PC-159-21.0'-21.3'	21.0-21.3	20150420	18.0	Non-Plastic		NP	SW-SM: Well-graded sand with silt
PC-159-24.0'-24.3'	24.0-24.3	20150420	16.0	Non-Plastic		NP	SW-SM: Well-graded sand with silt
RISB-09-31.0	31.0	20150420	16.2	Non-Plastic		NP	SM: Silty sand with gravel
RISB-12-24.0	24.0	20150421	13.5	8.4	5.1	CL-ML	SW-SC: Well-graded sand with clay and gravel
RISB-23-23.0	23.0	20150421	26.7	Non-Plastic		NP	SP-SM: Poorly graded sand with silt and gravel
M-189-30.0-31.0	31.3	20150406	75.4	40.3	35.1	MH	MH: Elastic silt with sand
M-190-34.3-34.65	34.4	20150406	62.4	32.5	29.9	MH	MH: Elastic silt with sand

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.

USCS: Unified Soil Classification System

PTS File No: 45097, 45133, 45165
 Client: Environ
 Report Date: 04/28/15

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: Nert
 Project No: 21-37300C M01, M02, M03

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
M-190-38.0-38.3	38.1	20150406	76.0	37.5	38.5	MH	MH: Elastic silt with sand
M-190-47.0-47.5	47.1	20150402	60.6	22.4	38.2	CH	SC: Clayey sand with gravel
M-191-44.0	44.3	20150406	56.6	41.5	15.1	MH	SM: Silty sand
M-191-46.0	46.3	20150402	64.5	35.9	28.6	MH	MH: Sandy elastic silt
M-192-35.0	35.3	20150402	69.3	54.3	15.0	MH	MH: Elastic silt with sand
M-192-40.0	40.3	20150402	55.4	33.8	21.6	MH	MH: Sandy elastic silt
M-161D-105.6-106.0	105.7	20150406	90.7	20.0	70.7	CH	CH: Fat clay with sand
M-161D-114.7-115.0	114.7-115.0	20150407	117.7	26.7	91.0	CH	CH: Fat clay with sand
M-161D-126.5-126.8	126.5-126.8	20150407	63.7	41.2	22.5	MH	MH: Sandy elastic silt
M-161D-149.5-149.75	149.6	20150407	94.5	29.0	65.5	CH	CH: Fat clay with sand
M-162D-123.7-124.0	123.7	20150407	138.0	24.7	113.3	CH	CH: Fat clay with sand
M-186D-166.0	165.8	20150402	124.9	54.9	70.0	MH	MH: Elastic silt with sand
M-186D-133.7-134.0	133.7-134.0	20150421	16.5	Non-Plastic		NP	SW-SM: Well-graded sand with silt
M-186D-144.0-144.3	144.0-144.3	20150421	90.0	46.2	43.8	MH	SM: Silty sand

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.

USCS: Unified Soil Classification System

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: Nert
PROJECT NO: 21-37300C M01, M02, M03

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						
				Gravel	Sand Size			Silt	Clay	Silt & Clay
					Coarse	Medium	Fine			
PC-134D-52.1'-52.5'	52.1	Fine sand	0.072	0.00	0.00	13.33	36.01	43.50	7.17	50.66
PC-134D-63.4'-63.65'	63.5	Fine sand	0.175	0.00	0.00	35.09	25.83	25.94	13.14	39.08
PC-134D-84.5'-84.7'	84.6	Silt	0.013	0.00	0.00	0.00	14.03	57.92	28.05	85.97
PC-134D-89.3'-89.45'	89.4	Silt	0.015	0.00	0.00	3.01	13.21	58.67	25.12	83.78
PC-137D-60'-60.2'	60.1	Medium sand	0.447	0.00	0.00	50.79	21.22	23.95	4.03	27.99
PC-137D-62.3'-62.5'	62.4	Silt	0.017	0.00	0.00	0.00	11.20	64.39	24.41	88.80
PC-137D-67.0'-67.2'	67.1	Silt	0.022	0.00	0.00	7.28	18.93	52.60	21.18	73.79
PC-137D-89.5'-89.7'	89.6	Silt	0.021	0.00	0.00	6.53	20.96	43.59	28.92	72.51
PC-153-36.0	36.3	Silt	0.033	0.00	0.00	7.89	26.46	53.59	12.06	65.65
M-189-30.0-31.0	31.3	Silt	0.026	0.00	0.00	0.85	24.54	59.38	15.24	74.62
M-190-34.3-34.65	34.4	Silt	0.023	0.00	0.00	0.85	22.26	58.72	18.17	76.89
M-190-38.0-38.3	38.1	Silt	0.027	0.00	0.00	1.41	21.25	62.27	15.07	77.34
M-191-46.0	46.3	Silt	0.037	0.00	0.00	11.03	24.16	49.02	15.78	64.81
M-192-35.0	35.3	Silt	0.029	0.00	0.00	3.74	22.81	57.35	16.09	73.44

(1) Based on Mean from Trask

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: Nert
PROJECT NO: 21-37300C M01, M02, M03

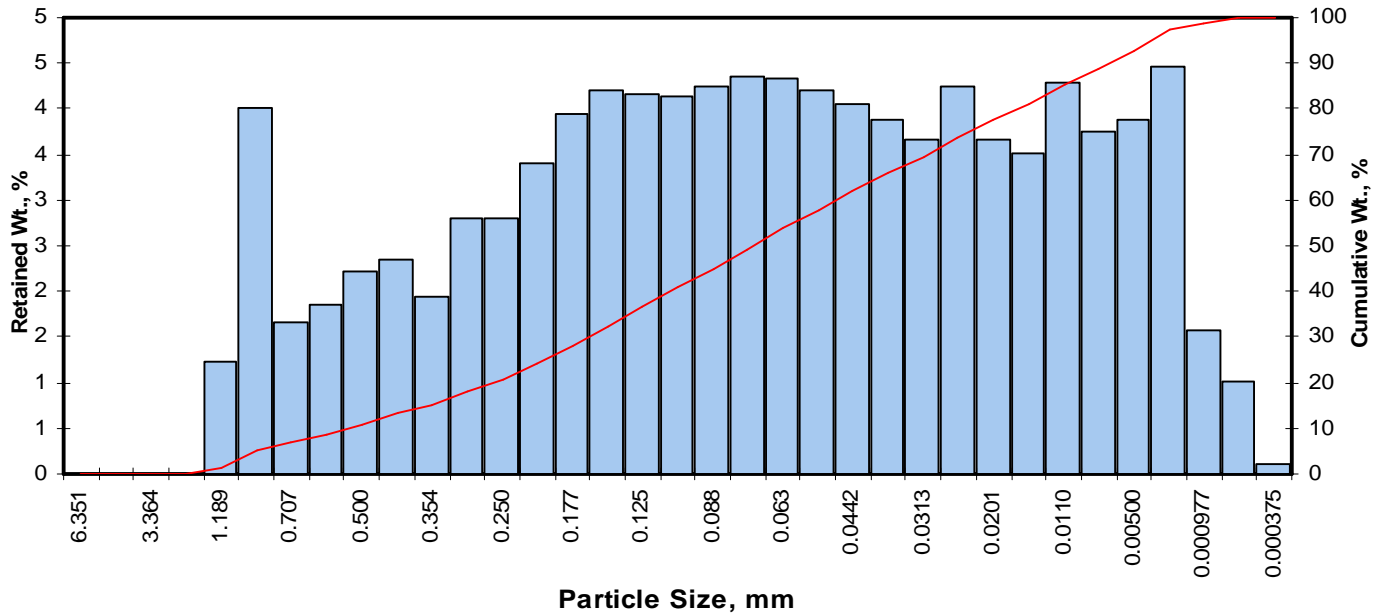
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
M-192-40.0	40.3	Fine sand	0.059	0.00	0.00	16.23	28.56	44.11	11.10	55.21
M-161D-105.6-106.0	105.7	Silt	0.028	0.00	0.00	8.16	18.49	55.38	17.97	73.35
M-161D-114.7-115.0	114.7-115.0	Silt	0.037	0.00	0.00	3.10	22.48	65.91	8.52	74.42
M-161D-126.5-126.8	126.5-126.8	Fine sand	0.060	0.00	0.00	11.51	34.31	48.40	5.78	54.18
M-161D-149.5-149.75	149.7	Silt	0.025	0.00	0.00	5.42	21.58	56.00	17.00	73.00
M-162D-123.7-124.0	123.7	Silt	0.021	0.00	0.00	2.09	16.31	65.95	15.65	81.60
M-186D-166.0	165.8	Silt	0.031	0.00	0.00	1.84	17.53	72.02	8.62	80.63

(1) Based on Mean from Trask

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-134D-52.1'-52.5'
Depth, ft: 52.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.22	1.22	1.22
0.0331	0.841	0.25	20	4.01	4.01	5.23
0.0278	0.707	0.50	25	1.67	1.67	6.90
0.0234	0.595	0.75	30	1.86	1.86	8.76
0.0197	0.500	1.00	35	2.22	2.22	10.98
0.0166	0.420	1.25	40	2.35	2.35	13.33
0.0139	0.354	1.50	45	1.94	1.94	15.27
0.0117	0.297	1.75	50	2.80	2.80	18.07
0.0098	0.250	2.00	60	2.81	2.81	20.88
0.0083	0.210	2.25	70	3.41	3.41	24.29
0.0070	0.177	2.50	80	3.94	3.94	28.23
0.0059	0.149	2.75	100	4.20	4.20	32.43
0.0049	0.125	3.00	120	4.17	4.17	36.60
0.0041	0.105	3.25	140	4.14	4.14	40.74
0.0035	0.088	3.50	170	4.24	4.24	44.98
0.0029	0.074	3.75	200	4.36	4.36	49.34
0.0025	0.063	4.00	230	4.34	4.34	53.67
0.0021	0.053	4.25	270	4.20	4.20	57.87
0.00174	0.0442	4.50	325	4.05	4.05	61.92
0.00146	0.0372	4.75	400	3.88	3.88	65.80
0.00123	0.0313	5.00	450	3.67	3.67	69.47
0.000986	0.0250	5.32	500	4.25	4.25	73.72
0.000790	0.0201	5.64	635	3.66	3.66	77.38
0.000615	0.0156	6.00		3.51	3.51	80.89
0.000435	0.0110	6.50		4.29	4.29	85.18
0.000308	0.00781	7.00		3.76	3.76	88.94
0.000197	0.00500	7.65		3.89	3.89	92.83
0.000077	0.00195	9.00		4.47	4.47	97.30
0.000038	0.000977	10.00		1.58	1.58	98.88
0.000019	0.000488	11.00		1.01	1.01	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.22	0.0338	0.858
10	0.89	0.0212	0.540
16	1.57	0.0133	0.338
25	2.30	0.0080	0.204
40	3.21	0.0043	0.108
50	3.79	0.0028	0.072
60	4.38	0.0019	0.048
75	5.43	0.0009	0.023
84	6.36	0.0005	0.012
90	7.18	0.0003	0.007
95	8.30	0.0001	0.003

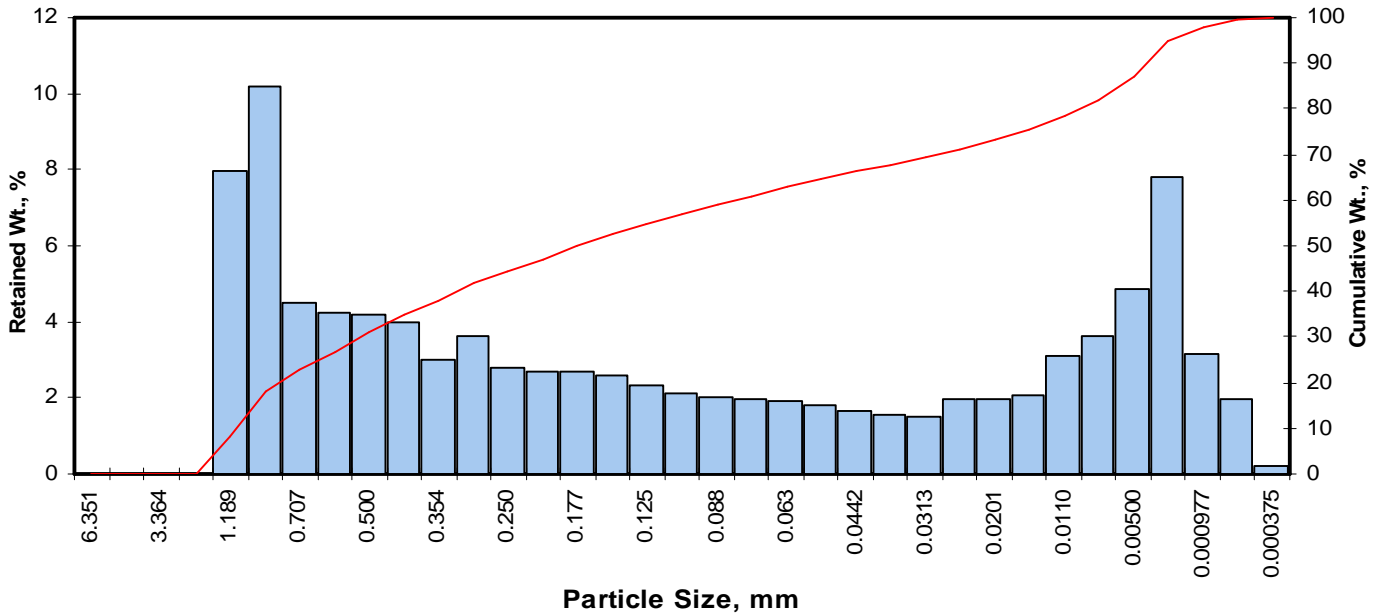
Measure	Trask	Inman	Folk-Ward
Median, phi	3.79	3.79	3.79
Median, in.	0.0028	0.0028	0.0028
Median, mm	0.072	0.072	0.072
Mean, phi	3.14	3.96	3.91
Mean, in.	0.0045	0.0025	0.0026
Mean, mm	0.113	0.064	0.067
Sorting	2.965	2.398	2.424
Skewness	0.949	0.073	0.095
Kurtosis	0.169	0.685	1.056
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	13.33
Fine Sand	200	36.01
Silt	>0.005 mm	43.50
Clay	<0.005 mm	7.17
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-134D-63.4'-63.65'
Depth, ft: 63.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	7.99	7.99	7.99
0.0331	0.841	0.25	20	10.20	10.20	18.19
0.0278	0.707	0.50	25	4.50	4.50	22.69
0.0234	0.595	0.75	30	4.23	4.23	26.92
0.0197	0.500	1.00	35	4.18	4.18	31.10
0.0166	0.420	1.25	40	3.99	3.99	35.09
0.0139	0.354	1.50	45	3.01	3.01	38.10
0.0117	0.297	1.75	50	3.61	3.61	41.71
0.0098	0.250	2.00	60	2.77	2.77	44.48
0.0083	0.210	2.25	70	2.69	2.69	47.17
0.0070	0.177	2.50	80	2.67	2.67	49.84
0.0059	0.149	2.75	100	2.57	2.57	52.41
0.0049	0.125	3.00	120	2.35	2.35	54.76
0.0041	0.105	3.25	140	2.14	2.14	56.90
0.0035	0.088	3.50	170	2.03	2.03	58.93
0.0029	0.074	3.75	200	1.99	1.99	60.92
0.0025	0.063	4.00	230	1.92	1.92	62.84
0.0021	0.053	4.25	270	1.79	1.79	64.63
0.00174	0.0442	4.50	325	1.64	1.64	66.27
0.00146	0.0372	4.75	400	1.54	1.54	67.81
0.00123	0.0313	5.00	450	1.51	1.51	69.32
0.000986	0.0250	5.32	500	1.94	1.94	71.26
0.000790	0.0201	5.64	635	1.94	1.94	73.20
0.000615	0.0156	6.00		2.08	2.08	75.28
0.000435	0.0110	6.50		3.08	3.08	78.36
0.000308	0.00781	7.00		3.62	3.62	81.98
0.000197	0.00500	7.65		4.88	4.88	86.86
0.000077	0.00195	9.00		7.80	7.80	94.66
0.000038	0.000977	10.00		3.16	3.16	97.82
0.000019	0.000488	11.00		1.96	1.96	99.78
0.000015	0.000375	11.38		0.22	0.22	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.53	0.0569	1.445
10	-0.15	0.0437	1.111
16	0.14	0.0357	0.906
25	0.64	0.0253	0.643
40	1.63	0.0127	0.323
50	2.52	0.0069	0.175
60	3.63	0.0032	0.081
75	5.95	0.0006	0.016
84	7.27	0.0003	0.006
90	8.19	0.0001	0.003
95	9.11	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	2.52	2.52	2.52
Median, in.	0.0069	0.0069	0.0069
Median, mm	0.175	0.175	0.175
Mean, phi	1.60	3.70	3.31
Mean, in.	0.0130	0.0030	0.0040
Mean, mm	0.330	0.077	0.101
Sorting	6.309	3.562	3.241
Skewness	0.583	0.334	0.351
Kurtosis	0.283	0.353	0.743

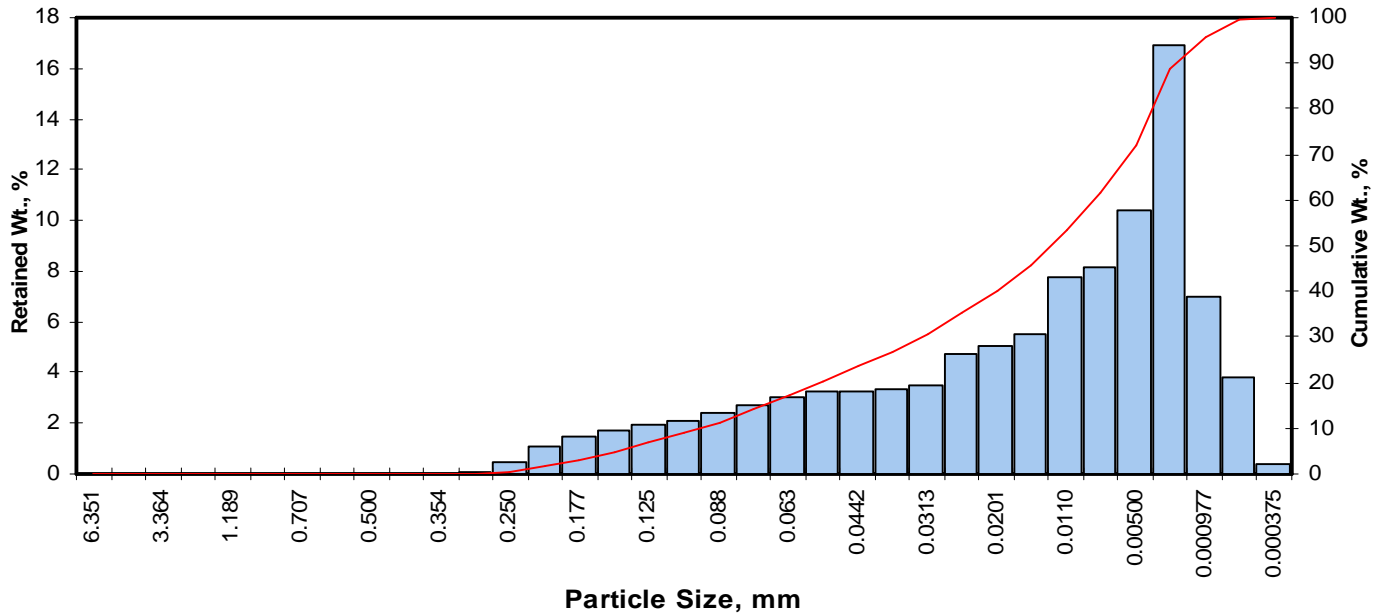
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	35.09
Fine Sand	200	25.83
Silt	>0.005 mm	25.94
Clay	<0.005 mm	13.14
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-134D-84.5'-84.7'
Depth, ft: 84.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.09	0.09	0.09
0.0098	0.250	2.00	60	0.48	0.48	0.57
0.0083	0.210	2.25	70	1.08	1.08	1.65
0.0070	0.177	2.50	80	1.50	1.50	3.15
0.0059	0.149	2.75	100	1.73	1.73	4.88
0.0049	0.125	3.00	120	1.91	1.91	6.79
0.0041	0.105	3.25	140	2.12	2.12	8.91
0.0035	0.088	3.50	170	2.39	2.39	11.30
0.0029	0.074	3.75	200	2.73	2.73	14.03
0.0025	0.063	4.00	230	3.05	3.05	17.08
0.0021	0.053	4.25	270	3.24	3.24	20.32
0.00174	0.0442	4.50	325	3.29	3.29	23.61
0.00146	0.0372	4.75	400	3.32	3.32	26.93
0.00123	0.0313	5.00	450	3.47	3.47	30.40
0.000986	0.0250	5.32	500	4.76	4.76	35.16
0.000790	0.0201	5.64	635	5.01	5.01	40.17
0.000615	0.0156	6.00		5.49	5.49	45.66
0.000435	0.0110	6.50		7.75	7.75	53.42
0.000308	0.00781	7.00		8.13	8.13	61.55
0.000197	0.00500	7.65		10.40	10.40	71.95
0.000077	0.00195	9.00		16.90	16.90	88.85
0.000038	0.000977	10.00		6.98	6.98	95.83
0.000019	0.000488	11.00		3.77	3.77	99.60
0.000015	0.000375	11.38		0.40	0.40	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.77	0.0058	0.147
10	3.36	0.0038	0.097
16	3.91	0.0026	0.066
25	4.60	0.0016	0.041
40	5.63	0.0008	0.020
50	6.28	0.0005	0.013
60	6.90	0.0003	0.008
75	7.89	0.0002	0.004
84	8.61	0.0001	0.003
90	9.16	0.0001	0.002
95	9.88	0.0000	0.001

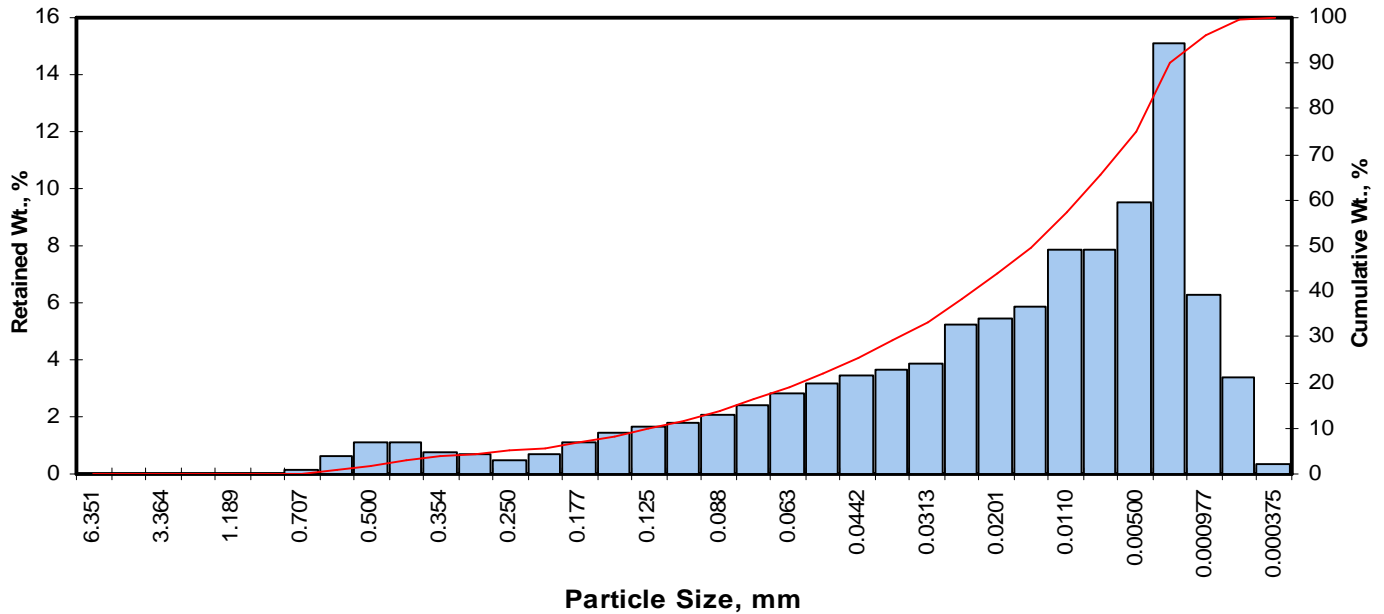
Measure	Trask	Inman	Folk-Ward
Median, phi	6.28	6.28	6.28
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.013	0.013	0.013
Mean, phi	5.46	6.26	6.27
Mean, in.	0.0009	0.0005	0.0005
Mean, mm	0.023	0.013	0.013
Sorting	3.122	2.350	2.253
Skewness	1.023	-0.008	0.002
Kurtosis	0.193	0.514	0.888
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	14.03
Silt	>0.005 mm	57.92
Clay	<0.005 mm	28.05
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-134D-89.3'-89.45'
Depth, ft: 89.4

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.01	0.01	0.01
0.0278	0.707	0.50	25	0.16	0.16	0.17
0.0234	0.595	0.75	30	0.64	0.64	0.81
0.0197	0.500	1.00	35	1.08	1.08	1.89
0.0166	0.420	1.25	40	1.12	1.12	3.01
0.0139	0.354	1.50	45	0.76	0.76	3.77
0.0117	0.297	1.75	50	0.72	0.72	4.49
0.0098	0.250	2.00	60	0.51	0.51	4.99
0.0083	0.210	2.25	70	0.69	0.69	5.68
0.0070	0.177	2.50	80	1.07	1.07	6.75
0.0059	0.149	2.75	100	1.47	1.47	8.22
0.0049	0.125	3.00	120	1.67	1.67	9.89
0.0041	0.105	3.25	140	1.82	1.82	11.71
0.0035	0.088	3.50	170	2.07	2.07	13.78
0.0029	0.074	3.75	200	2.44	2.44	16.22
0.0025	0.063	4.00	230	2.83	2.83	19.05
0.0021	0.053	4.25	270	3.15	3.15	22.19
0.00174	0.0442	4.50	325	3.43	3.43	25.62
0.00146	0.0372	4.75	400	3.64	3.64	29.26
0.00123	0.0313	5.00	450	3.86	3.86	33.12
0.000986	0.0250	5.32	500	5.23	5.23	38.35
0.000790	0.0201	5.64	635	5.42	5.42	43.76
0.000615	0.0156	6.00		5.84	5.84	49.60
0.000435	0.0110	6.50		7.90	7.90	57.49
0.000308	0.00781	7.00		7.85	7.85	65.34
0.000197	0.00500	7.65		9.55	9.54	74.88
0.000077	0.00195	9.00		15.10	15.09	89.98
0.000038	0.000977	10.00		6.29	6.29	96.26
0.000019	0.000488	11.00		3.38	3.38	99.64
0.000015	0.000375	11.38		0.36	0.36	100.00
TOTALS				100.10	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.00	0.0098	0.250
10	3.01	0.0049	0.124
16	3.73	0.0030	0.075
25	4.45	0.0018	0.046
40	5.42	0.0009	0.023
50	6.03	0.0006	0.015
60	6.66	0.0004	0.010
75	7.66	0.0002	0.005
84	8.46	0.0001	0.003
90	9.00	0.0001	0.002
95	9.80	0.0000	0.001

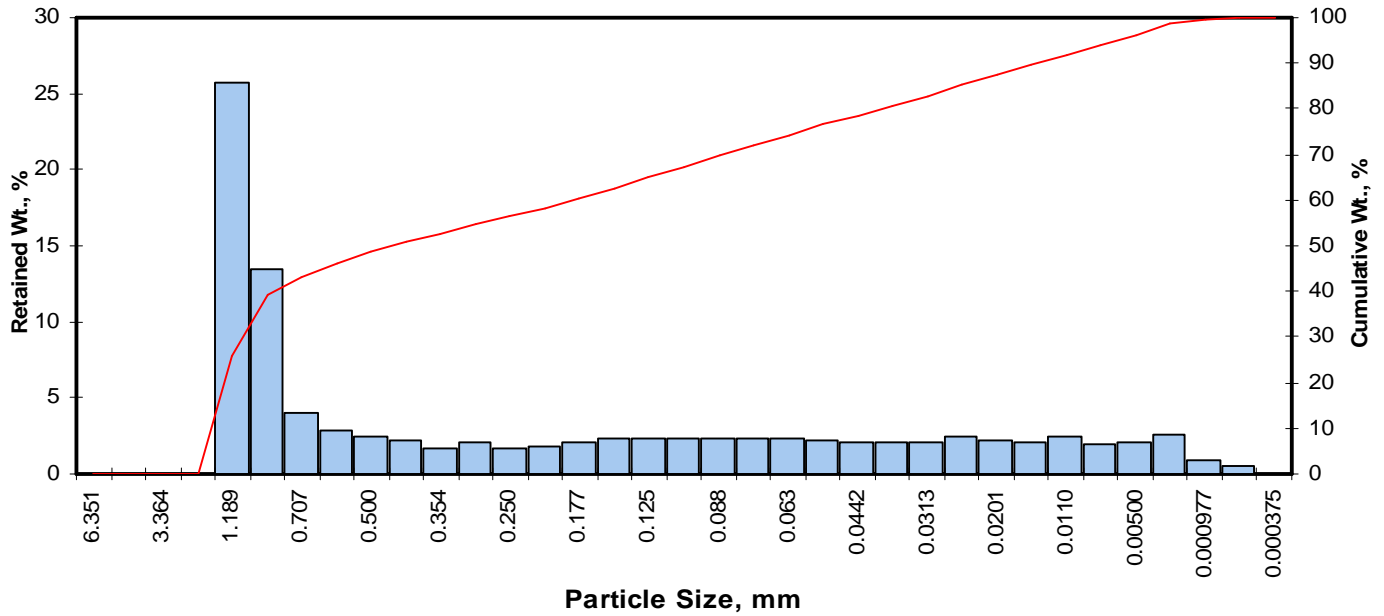
Measure	Trask	Inman	Folk-Ward
Median, phi	6.03	6.03	6.03
Median, in.	0.0006	0.0006	0.0006
Median, mm	0.015	0.015	0.015
Mean, phi	5.31	6.10	6.07
Mean, in.	0.0010	0.0006	0.0006
Mean, mm	0.025	0.015	0.015
Sorting	3.032	2.368	2.365
Skewness	0.980	0.030	-0.001
Kurtosis	0.167	0.646	0.998
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.01
Fine Sand	200	13.21
Silt	>0.005 mm	58.67
Clay	<0.005 mm	25.12
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-137D-60'-60.2'
Depth, ft: 60.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	25.70	25.69	25.69
0.0331	0.841	0.25	20	13.50	13.50	39.19
0.0278	0.707	0.50	25	3.98	3.98	43.17
0.0234	0.595	0.75	30	2.91	2.91	46.08
0.0197	0.500	1.00	35	2.46	2.46	48.54
0.0166	0.420	1.25	40	2.25	2.25	50.79
0.0139	0.354	1.50	45	1.70	1.70	52.49
0.0117	0.297	1.75	50	2.12	2.12	54.61
0.0098	0.250	2.00	60	1.74	1.74	56.35
0.0083	0.210	2.25	70	1.87	1.87	58.21
0.0070	0.177	2.50	80	2.09	2.09	60.30
0.0059	0.149	2.75	100	2.29	2.29	62.59
0.0049	0.125	3.00	120	2.36	2.36	64.95
0.0041	0.105	3.25	140	2.36	2.36	67.31
0.0035	0.088	3.50	170	2.35	2.35	69.66
0.0029	0.074	3.75	200	2.35	2.35	72.01
0.0025	0.063	4.00	230	2.30	2.30	74.31
0.0021	0.053	4.25	270	2.21	2.21	76.52
0.00174	0.0442	4.50	325	2.12	2.12	78.64
0.00146	0.0372	4.75	400	2.06	2.06	80.70
0.00123	0.0313	5.00	450	2.02	2.02	82.72
0.000986	0.0250	5.32	500	2.45	2.45	85.17
0.000790	0.0201	5.64	635	2.21	2.21	87.38
0.000615	0.0156	6.00		2.12	2.12	89.50
0.000435	0.0110	6.50		2.45	2.45	91.95
0.000308	0.00781	7.00		2.00	2.00	93.95
0.000197	0.00500	7.65		2.02	2.02	95.97
0.000077	0.00195	9.00		2.59	2.59	98.55
0.000038	0.000977	10.00		0.94	0.94	99.49
0.000019	0.000488	11.00		0.46	0.46	99.95
0.000015	0.000375	11.38		0.05	0.05	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.85	0.0712	1.808
10	-0.71	0.0643	1.634
16	-0.53	0.0570	1.447
25	-0.27	0.0475	1.206
40	0.30	0.0320	0.812
50	1.16	0.0176	0.447
60	2.46	0.0071	0.181
75	4.08	0.0023	0.059
84	5.17	0.0011	0.028
90	6.10	0.0006	0.015
95	7.34	0.0002	0.006

Measure	Trask	Inman	Folk-Ward
Median, phi	1.16	1.16	1.16
Median, in.	0.0176	0.0176	0.0176
Median, mm	0.447	0.447	0.447
Mean, phi	0.66	2.32	1.93
Mean, in.	0.0249	0.0079	0.0103
Mean, mm	0.633	0.201	0.262
Sorting	4.513	2.850	2.666
Skewness	0.598	0.405	0.456
Kurtosis	0.354	0.437	0.772

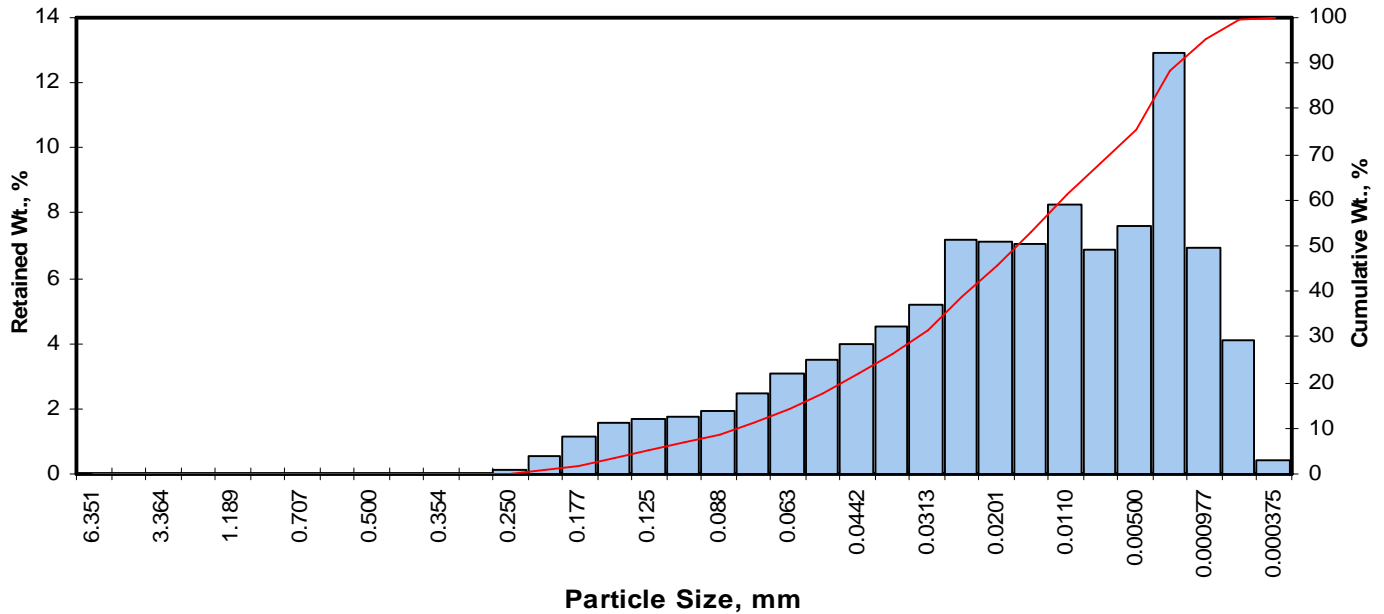
Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	50.79
Fine Sand	200	21.22
Silt	>0.005 mm	23.95
Clay	<0.005 mm	4.03
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-137D-62.3'-62.5'
Depth, ft: 62.4

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.01	0.01	0.01
0.0098	0.250	2.00	60	0.15	0.15	0.16
0.0083	0.210	2.25	70	0.57	0.57	0.73
0.0070	0.177	2.50	80	1.12	1.12	1.85
0.0059	0.149	2.75	100	1.54	1.54	3.39
0.0049	0.125	3.00	120	1.67	1.67	5.06
0.0041	0.105	3.25	140	1.72	1.72	6.78
0.0035	0.088	3.50	170	1.96	1.96	8.74
0.0029	0.074	3.75	200	2.46	2.46	11.20
0.0025	0.063	4.00	230	3.05	3.05	14.25
0.0021	0.053	4.25	270	3.53	3.53	17.78
0.00174	0.0442	4.50	325	4.00	4.00	21.78
0.00146	0.0372	4.75	400	4.54	4.54	26.32
0.00123	0.0313	5.00	450	5.16	5.16	31.48
0.000986	0.0250	5.32	500	7.17	7.17	38.65
0.000790	0.0201	5.64	635	7.10	7.10	45.75
0.000615	0.0156	6.00		7.07	7.07	52.82
0.000435	0.0110	6.50		8.25	8.25	61.07
0.000308	0.00781	7.00		6.90	6.90	67.97
0.000197	0.00500	7.65		7.62	7.62	75.59
0.000077	0.00195	9.00		12.90	12.90	88.49
0.000038	0.000977	10.00		6.94	6.94	95.43
0.000019	0.000488	11.00		4.13	4.13	99.56
0.000015	0.000375	11.38		0.44	0.44	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.99	0.0050	0.126
10	3.63	0.0032	0.081
16	4.12	0.0023	0.057
25	4.68	0.0015	0.039
40	5.38	0.0009	0.024
50	5.86	0.0007	0.017
60	6.44	0.0005	0.012
75	7.60	0.0002	0.005
84	8.53	0.0001	0.003
90	9.22	0.0001	0.002
95	9.94	0.0000	0.001

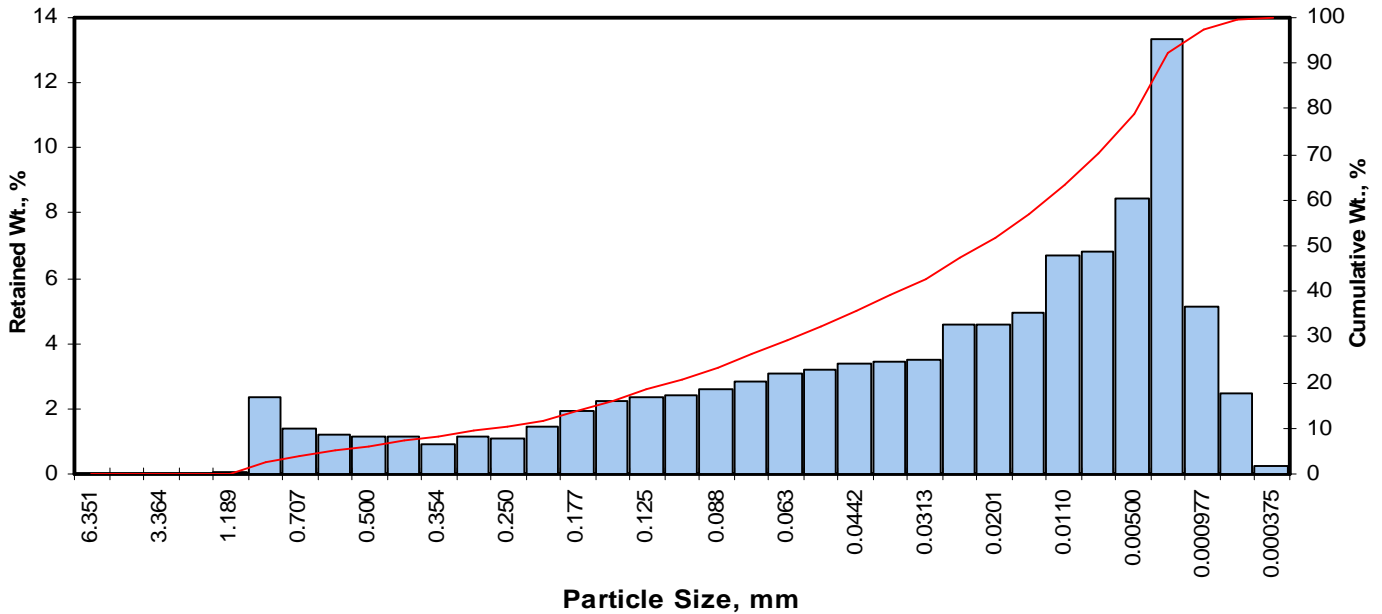
Measure	Trask	Inman	Folk-Ward
Median, phi	5.86	5.86	5.86
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	5.50	6.33	6.17
Mean, in.	0.0009	0.0005	0.0005
Mean, mm	0.022	0.012	0.014
Sorting	2.749	2.202	2.154
Skewness	0.824	0.213	0.194
Kurtosis	0.214	0.577	0.976
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	11.20
Silt	>0.005 mm	64.39
Clay	<0.005 mm	24.41
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-137D-67.0'-67.2'
Depth, ft: 67.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.08	0.08	0.08
0.0331	0.841	0.25	20	2.36	2.36	2.44
0.0278	0.707	0.50	25	1.41	1.41	3.85
0.0234	0.595	0.75	30	1.19	1.19	5.04
0.0197	0.500	1.00	35	1.12	1.12	6.16
0.0166	0.420	1.25	40	1.12	1.12	7.28
0.0139	0.354	1.50	45	0.90	0.90	8.18
0.0117	0.297	1.75	50	1.14	1.14	9.32
0.0098	0.250	2.00	60	1.06	1.06	10.38
0.0083	0.210	2.25	70	1.43	1.43	11.81
0.0070	0.177	2.50	80	1.93	1.93	13.74
0.0059	0.149	2.75	100	2.26	2.26	16.01
0.0049	0.125	3.00	120	2.34	2.34	18.35
0.0041	0.105	3.25	140	2.42	2.42	20.77
0.0035	0.088	3.50	170	2.60	2.60	23.37
0.0029	0.074	3.75	200	2.84	2.84	26.21
0.0025	0.063	4.00	230	3.05	3.05	29.26
0.0021	0.053	4.25	270	3.21	3.21	32.48
0.00174	0.0442	4.50	325	3.35	3.35	35.83
0.00146	0.0372	4.75	400	3.42	3.42	39.25
0.00123	0.0313	5.00	450	3.50	3.50	42.75
0.000986	0.0250	5.32	500	4.57	4.57	47.33
0.000790	0.0201	5.64	635	4.60	4.60	51.93
0.000615	0.0156	6.00		4.92	4.92	56.85
0.000435	0.0110	6.50		6.71	6.71	63.57
0.000308	0.00781	7.00		6.81	6.81	70.38
0.000197	0.00500	7.65		8.43	8.44	78.82
0.000077	0.00195	9.00		13.30	13.31	92.12
0.000038	0.000977	10.00		5.14	5.14	97.27
0.000019	0.000488	11.00		2.48	2.48	99.75
0.000015	0.000375	11.38		0.25	0.25	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.74	0.0235	0.598
10	1.91	0.0105	0.266
16	2.75	0.0059	0.149
25	3.64	0.0032	0.080
40	4.80	0.0014	0.036
50	5.51	0.0009	0.022
60	6.23	0.0005	0.013
75	7.35	0.0002	0.006
84	8.17	0.0001	0.003
90	8.78	0.0001	0.002
95	9.56	0.0001	0.001

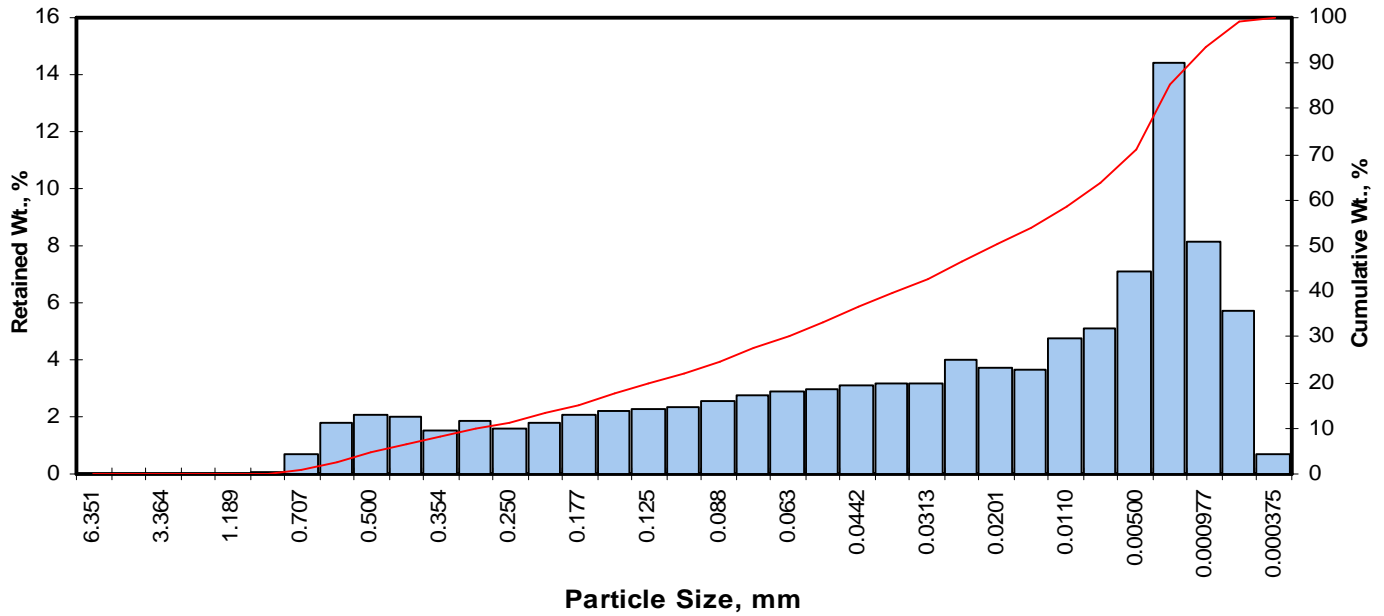
Measure	Trask	Inman	Folk-Ward
Median, phi	5.51	5.51	5.51
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.022	0.022	0.022
Mean, phi	4.54	5.46	5.48
Mean, in.	0.0017	0.0009	0.0009
Mean, mm	0.043	0.023	0.022
Sorting	3.617	2.712	2.692
Skewness	1.005	-0.017	-0.049
Kurtosis	0.140	0.626	0.974
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.28
Fine Sand	200	18.93
Silt	>0.005 mm	52.60
Clay	<0.005 mm	21.18
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-137D-89.5'-89.7'
Depth, ft: 89.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.05	0.05	0.05
0.0278	0.707	0.50	25	0.67	0.67	0.72
0.0234	0.595	0.75	30	1.78	1.78	2.50
0.0197	0.500	1.00	35	2.04	2.04	4.54
0.0166	0.420	1.25	40	1.99	1.99	6.53
0.0139	0.354	1.50	45	1.50	1.50	8.03
0.0117	0.297	1.75	50	1.83	1.83	9.86
0.0098	0.250	2.00	60	1.56	1.56	11.42
0.0083	0.210	2.25	70	1.80	1.80	13.22
0.0070	0.177	2.50	80	2.08	2.08	15.30
0.0059	0.149	2.75	100	2.23	2.23	17.53
0.0049	0.125	3.00	120	2.27	2.27	19.80
0.0041	0.105	3.25	140	2.37	2.37	22.17
0.0035	0.088	3.50	170	2.56	2.56	24.73
0.0029	0.074	3.75	200	2.76	2.76	27.49
0.0025	0.063	4.00	230	2.89	2.89	30.38
0.0021	0.053	4.25	270	2.97	2.97	33.35
0.00174	0.0442	4.50	325	3.07	3.07	36.43
0.00146	0.0372	4.75	400	3.15	3.15	39.58
0.00123	0.0313	5.00	450	3.18	3.18	42.76
0.000986	0.0250	5.32	500	3.97	3.97	46.73
0.000790	0.0201	5.64	635	3.70	3.70	50.43
0.000615	0.0156	6.00		3.65	3.65	54.08
0.000435	0.0110	6.50		4.75	4.75	58.83
0.000308	0.00781	7.00		5.12	5.12	63.95
0.000197	0.00500	7.65		7.13	7.13	71.08
0.000077	0.00195	9.00		14.40	14.40	85.49
0.000038	0.000977	10.00		8.11	8.11	93.60
0.000019	0.000488	11.00		5.73	5.73	99.33
0.000015	0.000375	11.38		0.67	0.67	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.06	0.0189	0.480
10	1.77	0.0115	0.293
16	2.58	0.0066	0.167
25	3.52	0.0034	0.087
40	4.78	0.0014	0.036
50	5.60	0.0008	0.021
60	6.61	0.0004	0.010
75	8.01	0.0002	0.004
84	8.86	0.0001	0.002
90	9.56	0.0001	0.001
95	10.24	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.60	5.60	5.60
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	4.46	5.72	5.68
Mean, in.	0.0018	0.0007	0.0008
Mean, mm	0.045	0.019	0.019
Sorting	4.739	3.141	2.962
Skewness	0.891	0.037	0.024
Kurtosis	0.143	0.462	0.839

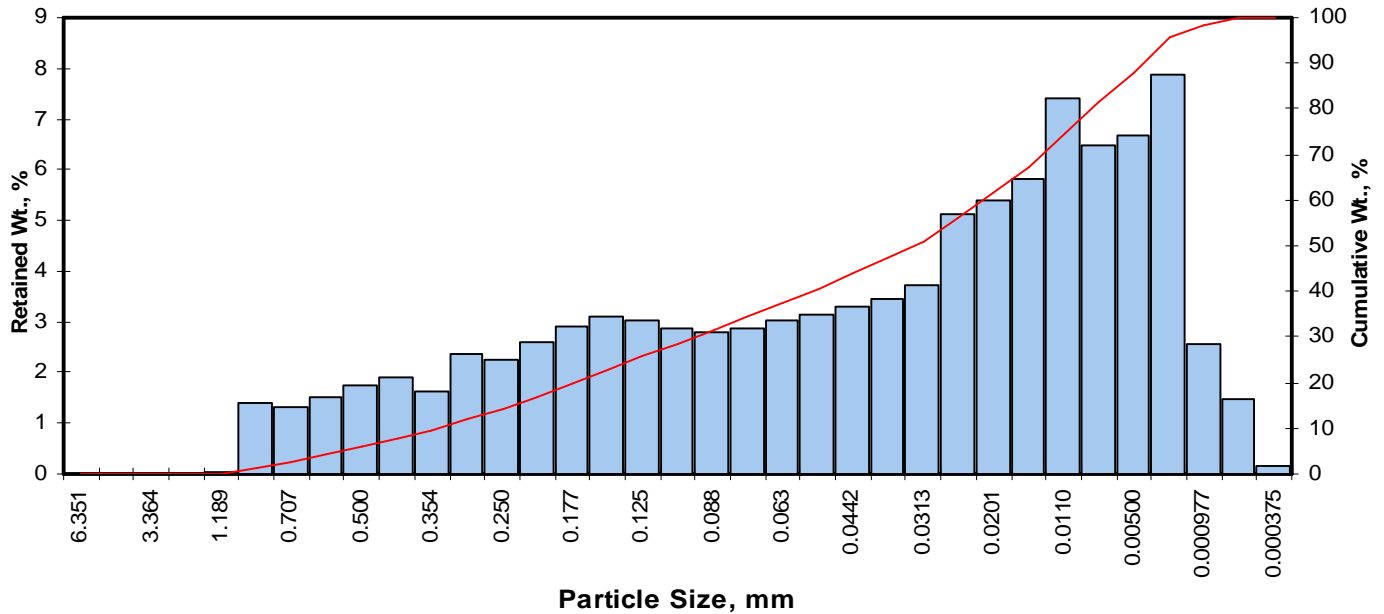
Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	6.53
Fine Sand	200	20.96
Silt	>0.005 mm	43.59
Clay	<0.005 mm	28.92
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: PC-153-36.0
Depth, ft: 36.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.03	0.03	0.03
0.0331	0.841	0.25	20	1.39	1.39	1.42
0.0278	0.707	0.50	25	1.30	1.30	2.72
0.0234	0.595	0.75	30	1.50	1.50	4.22
0.0197	0.500	1.00	35	1.76	1.76	5.98
0.0166	0.420	1.25	40	1.91	1.91	7.89
0.0139	0.354	1.50	45	1.64	1.64	9.53
0.0117	0.297	1.75	50	2.37	2.37	11.90
0.0098	0.250	2.00	60	2.26	2.26	14.16
0.0083	0.210	2.25	70	2.59	2.59	16.75
0.0070	0.177	2.50	80	2.92	2.92	19.67
0.0059	0.149	2.75	100	3.11	3.11	22.78
0.0049	0.125	3.00	120	3.02	3.02	25.80
0.0041	0.105	3.25	140	2.86	2.86	28.66
0.0035	0.088	3.50	170	2.80	2.80	31.46
0.0029	0.074	3.75	200	2.89	2.89	34.35
0.0025	0.063	4.00	230	3.04	3.04	37.39
0.0021	0.053	4.25	270	3.16	3.16	40.55
0.00174	0.0442	4.50	325	3.29	3.29	43.84
0.00146	0.0372	4.75	400	3.46	3.46	47.30
0.00123	0.0313	5.00	450	3.73	3.73	51.03
0.000986	0.0250	5.32	500	5.14	5.14	56.17
0.000790	0.0201	5.64	635	5.38	5.38	61.55
0.000615	0.0156	6.00		5.81	5.81	67.36
0.000435	0.0110	6.50		7.42	7.42	74.78
0.000308	0.00781	7.00		6.48	6.48	81.26
0.000197	0.00500	7.65		6.68	6.68	87.94
0.000077	0.00195	9.00		7.86	7.86	95.80
0.000038	0.000977	10.00		2.56	2.56	98.36
0.000019	0.000488	11.00		1.48	1.48	99.84
0.000015	0.000375	11.38		0.16	0.16	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.86	0.0217	0.551
10	1.55	0.0134	0.342
16	2.18	0.0087	0.221
25	2.93	0.0052	0.131
40	4.21	0.0021	0.054
50	4.93	0.0013	0.033
60	5.55	0.0008	0.021
75	6.52	0.0004	0.011
84	7.26	0.0003	0.007
90	8.00	0.0002	0.004
95	8.86	0.0001	0.002

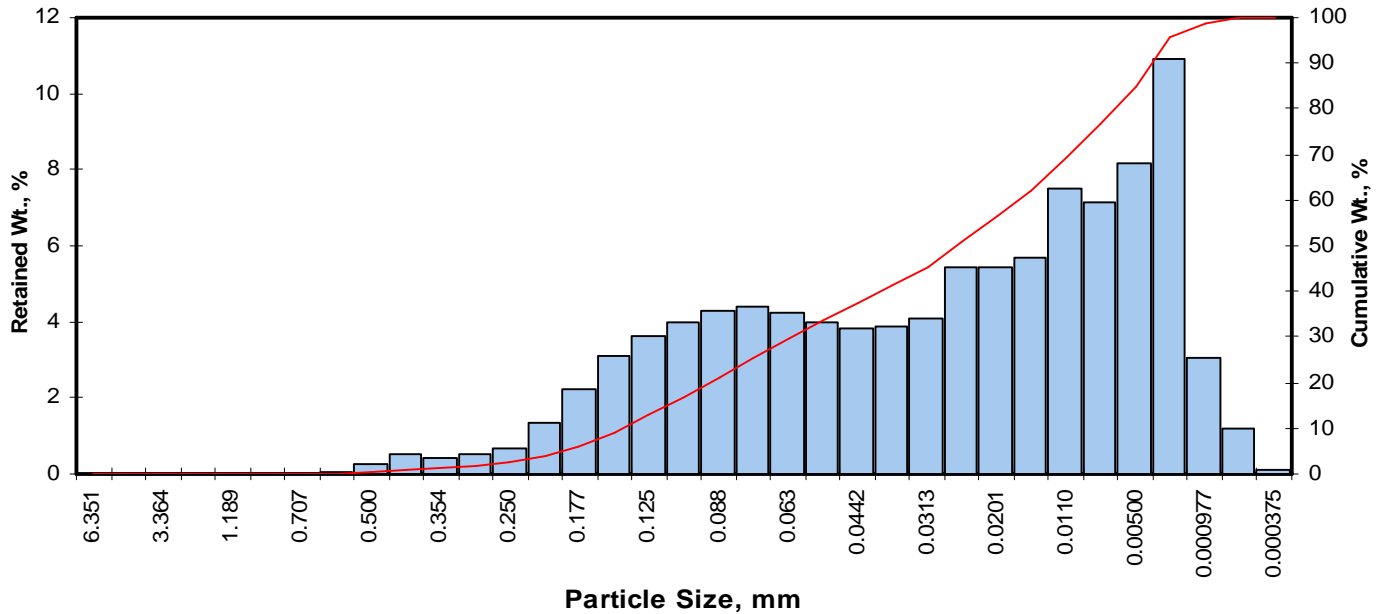
Measure	Trask	Inman	Folk-Ward
Median, phi	4.93	4.93	4.93
Median, in.	0.0013	0.0013	0.0013
Median, mm	0.033	0.033	0.033
Mean, phi	3.82	4.72	4.79
Mean, in.	0.0028	0.0015	0.0014
Mean, mm	0.071	0.038	0.036
Sorting	3.462	2.543	2.484
Skewness	1.153	-0.083	-0.050
Kurtosis	0.178	0.573	0.915
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.89
Fine Sand	200	26.46
Silt	>0.005 mm	53.59
Clay	<0.005 mm	12.06
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: M-189-30.0-31.0
Depth, ft: 31.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.04	0.03	0.04
0.0197	0.500	1.00	35	0.28	0.28	0.32
0.0166	0.420	1.25	40	0.53	0.53	0.85
0.0139	0.354	1.50	45	0.43	0.43	1.28
0.0117	0.297	1.75	50	0.51	0.51	1.78
0.0098	0.250	2.00	60	0.68	0.68	2.46
0.0083	0.210	2.25	70	1.34	1.34	3.80
0.0070	0.177	2.50	80	2.23	2.23	6.03
0.0059	0.149	2.75	100	3.08	3.08	9.11
0.0049	0.125	3.00	120	3.63	3.63	12.74
0.0041	0.105	3.25	140	4.00	4.00	16.74
0.0035	0.088	3.50	170	4.27	4.27	21.00
0.0029	0.074	3.75	200	4.38	4.38	25.38
0.0025	0.063	4.00	230	4.26	4.26	29.64
0.0021	0.053	4.25	270	4.00	4.00	33.64
0.00174	0.0442	4.50	325	3.84	3.84	37.47
0.00146	0.0372	4.75	400	3.87	3.87	41.34
0.00123	0.0313	5.00	450	4.07	4.07	45.41
0.000986	0.0250	5.32	500	5.44	5.44	50.85
0.000790	0.0201	5.64	635	5.43	5.43	56.27
0.000615	0.0156	6.00		5.71	5.71	61.98
0.000435	0.0110	6.50		7.51	7.51	69.49
0.000308	0.00781	7.00		7.12	7.12	76.60
0.000197	0.00500	7.65		8.16	8.16	84.76
0.000077	0.00195	9.00		10.90	10.89	95.65
0.000038	0.000977	10.00		3.03	3.03	98.68
0.000019	0.000488	11.00		1.20	1.20	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.10	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.38	0.0075	0.192
10	2.81	0.0056	0.142
16	3.20	0.0043	0.109
25	3.73	0.0030	0.075
40	4.66	0.0016	0.039
50	5.27	0.0010	0.026
60	5.88	0.0007	0.017
75	6.89	0.0003	0.008
84	7.59	0.0002	0.005
90	8.30	0.0001	0.003
95	8.92	0.0001	0.002

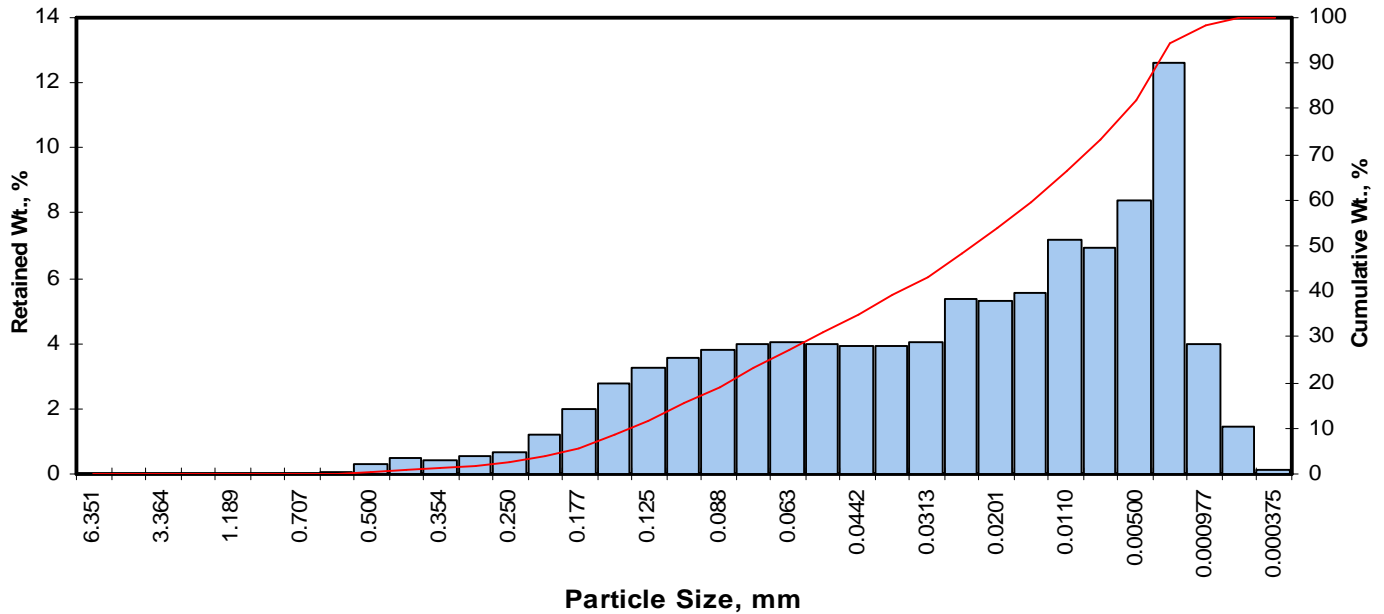
Measure	Trask	Inman	Folk-Ward
Median, phi	5.27	5.27	5.27
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.026	0.026	0.026
Mean, phi	4.58	5.39	5.35
Mean, in.	0.0017	0.0009	0.0010
Mean, mm	0.042	0.024	0.024
Sorting	2.989	2.191	2.085
Skewness	0.974	0.057	0.087
Kurtosis	0.241	0.492	0.848
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.85
Fine Sand	200	24.54
Silt	>0.005 mm	59.38
Clay	<0.005 mm	15.24
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: M-190-34.3-34.65
 Depth, ft: 34.4

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.05	0.05	0.05
0.0197	0.500	1.00	35	0.29	0.29	0.34
0.0166	0.420	1.25	40	0.51	0.51	0.85
0.0139	0.354	1.50	45	0.44	0.44	1.29
0.0117	0.297	1.75	50	0.56	0.56	1.85
0.0098	0.250	2.00	60	0.66	0.66	2.51
0.0083	0.210	2.25	70	1.19	1.19	3.70
0.0070	0.177	2.50	80	1.99	1.99	5.69
0.0059	0.149	2.75	100	2.78	2.78	8.47
0.0049	0.125	3.00	120	3.27	3.27	11.74
0.0041	0.105	3.25	140	3.56	3.56	15.30
0.0035	0.088	3.50	170	3.80	3.80	19.10
0.0029	0.074	3.75	200	4.01	4.01	23.11
0.0025	0.063	4.00	230	4.07	4.07	27.18
0.0021	0.053	4.25	270	3.99	3.99	31.17
0.00174	0.0442	4.50	325	3.92	3.92	35.09
0.00146	0.0372	4.75	400	3.94	3.94	39.03
0.00123	0.0313	5.00	450	4.07	4.07	43.10
0.000986	0.0250	5.32	500	5.35	5.35	48.45
0.000790	0.0201	5.64	635	5.30	5.30	53.75
0.000615	0.0156	6.00		5.53	5.53	59.28
0.000435	0.0110	6.50		7.20	7.20	66.48
0.000308	0.00781	7.00		6.96	6.96	73.44
0.000197	0.00500	7.65		8.39	8.39	81.83
0.000077	0.00195	9.00		12.60	12.60	94.43
0.000038	0.000977	10.00		3.97	3.97	98.40
0.000019	0.000488	11.00		1.46	1.46	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.41	0.0074	0.188
10	2.87	0.0054	0.137
16	3.30	0.0040	0.102
25	3.87	0.0027	0.069
40	4.81	0.0014	0.036
50	5.41	0.0009	0.023
60	6.05	0.0006	0.015
75	7.12	0.0003	0.007
84	7.88	0.0002	0.004
90	8.52	0.0001	0.003
95	9.14	0.0001	0.002

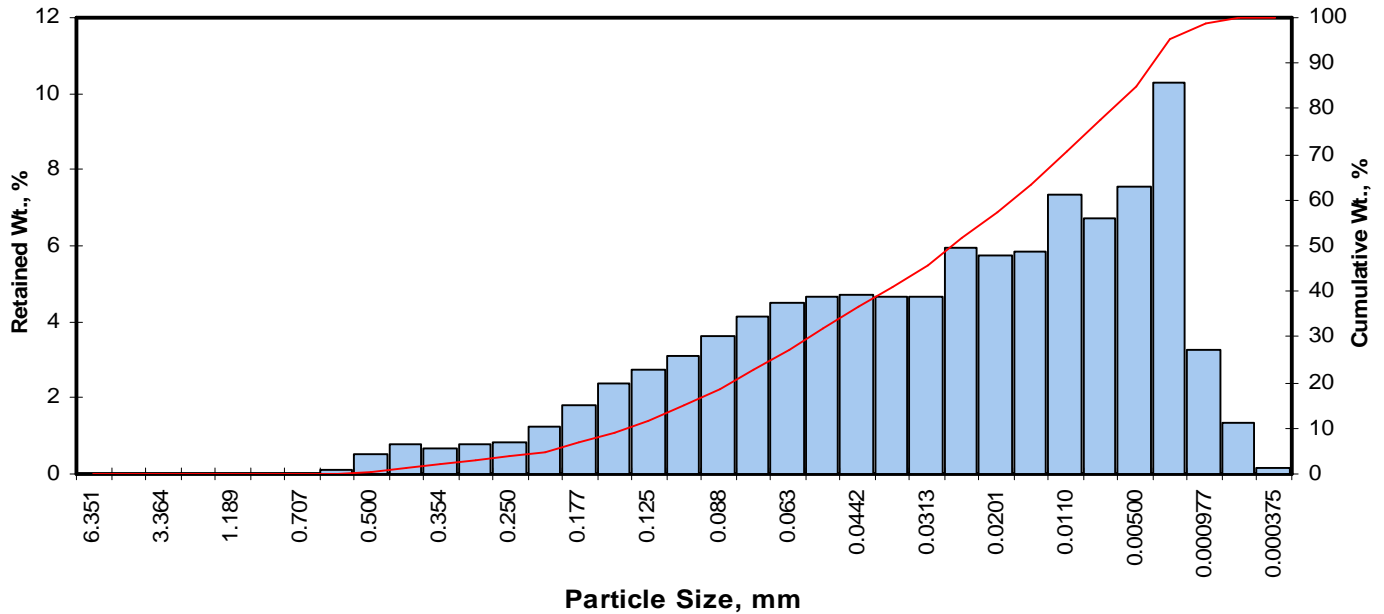
Measure	Trask	Inman	Folk-Ward
Median, phi	5.41	5.41	5.41
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.023	0.023	0.023
Mean, phi	4.72	5.59	5.53
Mean, in.	0.0015	0.0008	0.0009
Mean, mm	0.038	0.021	0.022
Sorting	3.089	2.291	2.165
Skewness	0.946	0.076	0.092
Kurtosis	0.228	0.469	0.848
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.85
Fine Sand	200	22.26
Silt	>0.005 mm	58.72
Clay	<0.005 mm	18.17
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: M-190-38.0-38.3
Depth, ft: 38.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.11	0.11	0.11
0.0197	0.500	1.00	35	0.51	0.51	0.62
0.0166	0.420	1.25	40	0.79	0.79	1.41
0.0139	0.354	1.50	45	0.65	0.65	2.07
0.0117	0.297	1.75	50	0.80	0.80	2.87
0.0098	0.250	2.00	60	0.81	0.81	3.68
0.0083	0.210	2.25	70	1.23	1.23	4.91
0.0070	0.177	2.50	80	1.81	1.81	6.72
0.0059	0.149	2.75	100	2.36	2.36	9.08
0.0049	0.125	3.00	120	2.74	2.74	11.82
0.0041	0.105	3.25	140	3.12	3.12	14.94
0.0035	0.088	3.50	170	3.60	3.60	18.54
0.0029	0.074	3.75	200	4.12	4.12	22.66
0.0025	0.063	4.00	230	4.51	4.51	27.17
0.0021	0.053	4.25	270	4.66	4.66	31.83
0.00174	0.0442	4.50	325	4.68	4.68	36.51
0.00146	0.0372	4.75	400	4.64	4.64	41.16
0.00123	0.0313	5.00	450	4.67	4.67	45.83
0.000986	0.0250	5.32	500	5.96	5.96	51.79
0.000790	0.0201	5.64	635	5.72	5.72	57.51
0.000615	0.0156	6.00		5.82	5.82	63.33
0.000435	0.0110	6.50		7.34	7.34	70.67
0.000308	0.00781	7.00		6.71	6.71	77.38
0.000197	0.00500	7.65		7.54	7.54	84.93
0.000077	0.00195	9.00		10.30	10.30	95.23
0.000038	0.000977	10.00		3.27	3.27	98.50
0.000019	0.000488	11.00		1.37	1.37	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.26	0.0082	0.208
10	2.83	0.0055	0.140
16	3.32	0.0039	0.100
25	3.88	0.0027	0.068
40	4.69	0.0015	0.039
50	5.22	0.0011	0.027
60	5.79	0.0007	0.018
75	6.82	0.0003	0.009
84	7.57	0.0002	0.005
90	8.31	0.0001	0.003
95	8.97	0.0001	0.002

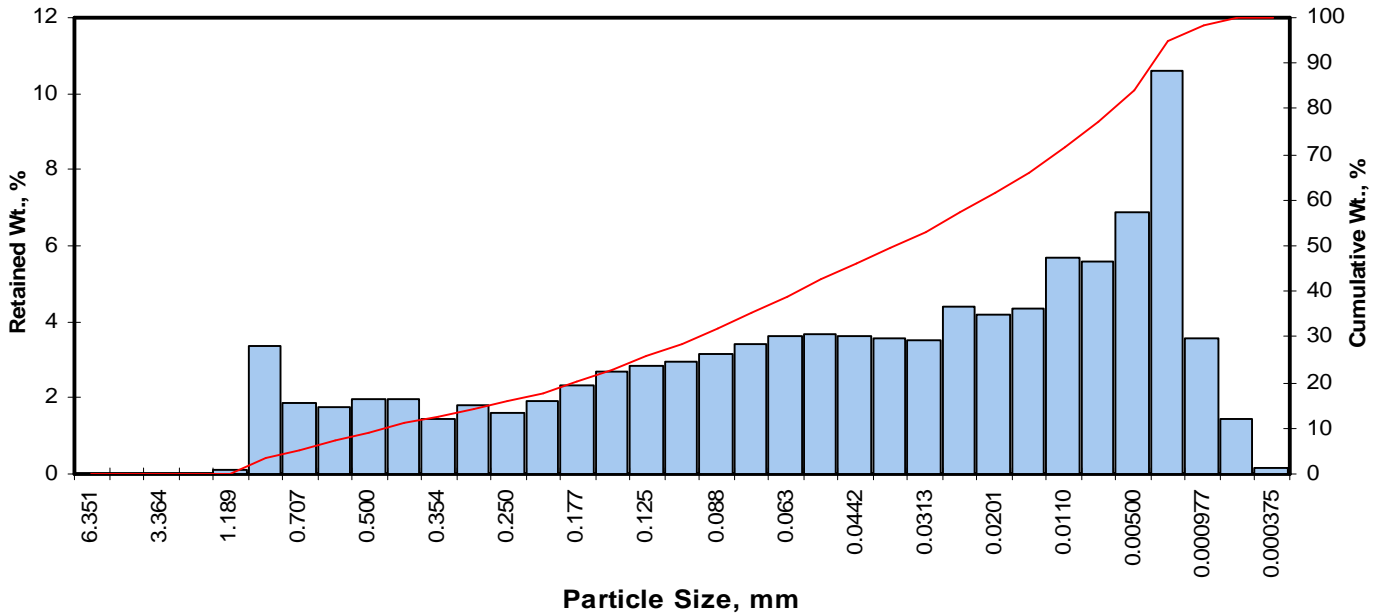
Measure	Trask	Inman	Folk-Ward
Median, phi	5.22	5.22	5.22
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	4.70	5.44	5.37
Mean, in.	0.0015	0.0009	0.0010
Mean, mm	0.038	0.023	0.024
Sorting	2.773	2.121	2.077
Skewness	0.916	0.104	0.111
Kurtosis	0.216	0.581	0.934
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.41
Fine Sand	200	21.25
Silt	>0.005 mm	62.27
Clay	<0.005 mm	15.07
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: M-191-46.0
Depth, ft: 46

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.12	0.12	0.12
0.0331	0.841	0.25	20	3.36	3.36	3.48
0.0278	0.707	0.50	25	1.86	1.86	5.34
0.0234	0.595	0.75	30	1.78	1.78	7.12
0.0197	0.500	1.00	35	1.96	1.96	9.08
0.0166	0.420	1.25	40	1.95	1.95	11.03
0.0139	0.354	1.50	45	1.46	1.46	12.49
0.0117	0.297	1.75	50	1.82	1.82	14.31
0.0098	0.250	2.00	60	1.62	1.62	15.93
0.0083	0.210	2.25	70	1.93	1.93	17.86
0.0070	0.177	2.50	80	2.33	2.33	20.19
0.0059	0.149	2.75	100	2.67	2.67	22.86
0.0049	0.125	3.00	120	2.82	2.82	25.68
0.0041	0.105	3.25	140	2.93	2.93	28.61
0.0035	0.088	3.50	170	3.15	3.15	31.76
0.0029	0.074	3.75	200	3.43	3.43	35.19
0.0025	0.063	4.00	230	3.62	3.62	38.81
0.0021	0.053	4.25	270	3.66	3.66	42.47
0.00174	0.0442	4.50	325	3.62	3.62	46.09
0.00146	0.0372	4.75	400	3.55	3.55	49.64
0.00123	0.0313	5.00	450	3.50	3.50	53.15
0.000986	0.0250	5.32	500	4.39	4.39	57.54
0.000790	0.0201	5.64	635	4.21	4.21	61.75
0.000615	0.0156	6.00		4.33	4.33	66.08
0.000435	0.0110	6.50		5.68	5.68	71.76
0.000308	0.00781	7.00		5.59	5.59	77.35
0.000197	0.00500	7.65		6.87	6.87	84.22
0.000077	0.00195	9.00		10.60	10.60	94.82
0.000038	0.000977	10.00		3.59	3.59	98.41
0.000019	0.000488	11.00		1.45	1.45	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.45	0.0287	0.730
10	1.12	0.0181	0.461
16	2.01	0.0098	0.248
25	2.94	0.0051	0.130
40	4.08	0.0023	0.059
50	4.78	0.0014	0.037
60	5.51	0.0009	0.022
75	6.79	0.0004	0.009
84	7.62	0.0002	0.005
90	8.38	0.0001	0.003
95	9.05	0.0001	0.002

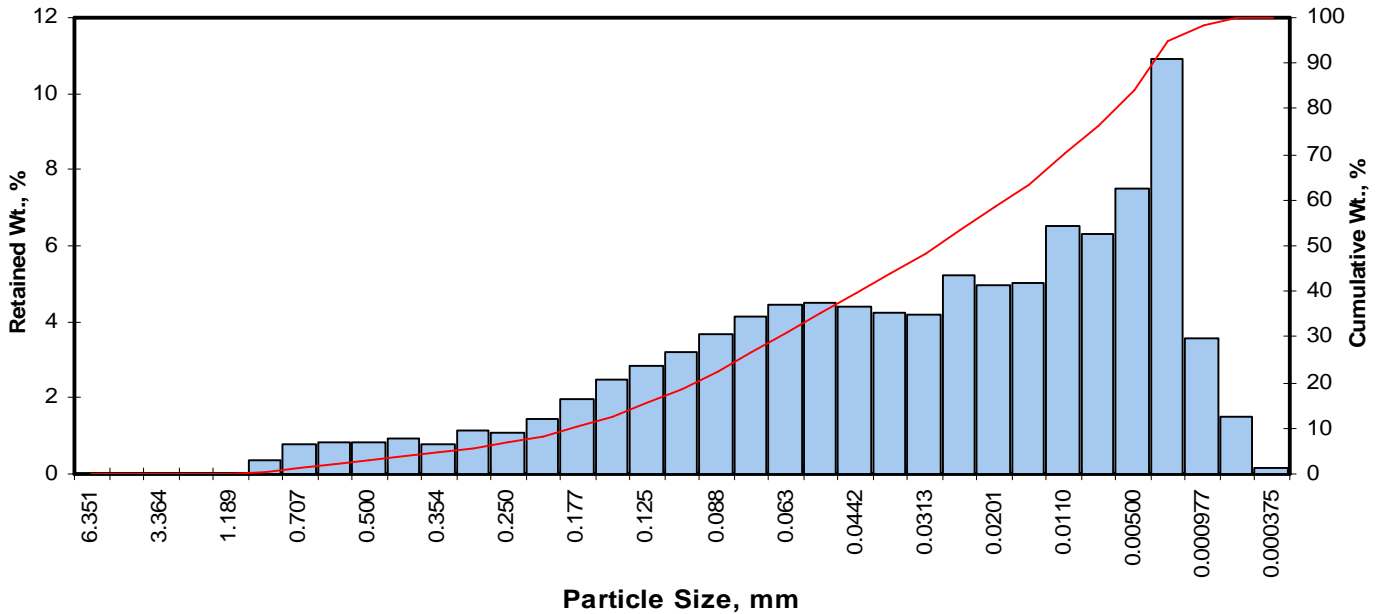
Measure	Trask	Inman	Folk-Ward
Median, phi	4.78	4.78	4.78
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.037	0.037	0.037
Mean, phi	3.84	4.82	4.80
Mean, in.	0.0027	0.0014	0.0014
Mean, mm	0.070	0.035	0.036
Sorting	3.798	2.808	2.706
Skewness	0.940	0.015	0.005
Kurtosis	0.133	0.531	0.915
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	11.03
Fine Sand	200	24.16
Silt	>0.005 mm	49.02
Clay	<0.005 mm	15.78
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: M-192-35.0
Depth, ft: 35.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.36	0.36	0.36
0.0278	0.707	0.50	25	0.78	0.78	1.14
0.0234	0.595	0.75	30	0.83	0.83	1.97
0.0197	0.500	1.00	35	0.85	0.85	2.82
0.0166	0.420	1.25	40	0.92	0.92	3.74
0.0139	0.354	1.50	45	0.80	0.80	4.54
0.0117	0.297	1.75	50	1.13	1.13	5.67
0.0098	0.250	2.00	60	1.09	1.09	6.76
0.0083	0.210	2.25	70	1.43	1.43	8.19
0.0070	0.177	2.50	80	1.96	1.96	10.15
0.0059	0.149	2.75	100	2.50	2.50	12.65
0.0049	0.125	3.00	120	2.87	2.87	15.52
0.0041	0.105	3.25	140	3.22	3.22	18.74
0.0035	0.088	3.50	170	3.67	3.67	22.41
0.0029	0.074	3.75	200	4.14	4.14	26.56
0.0025	0.063	4.00	230	4.44	4.44	31.00
0.0021	0.053	4.25	270	4.48	4.48	35.48
0.00174	0.0442	4.50	325	4.39	4.39	39.87
0.00146	0.0372	4.75	400	4.26	4.26	44.13
0.00123	0.0313	5.00	450	4.19	4.19	48.32
0.000986	0.0250	5.32	500	5.23	5.23	53.55
0.000790	0.0201	5.64	635	4.94	4.94	58.49
0.000615	0.0156	6.00		5.02	5.02	63.51
0.000435	0.0110	6.50		6.54	6.54	70.05
0.000308	0.00781	7.00		6.33	6.33	76.39
0.000197	0.00500	7.65		7.52	7.52	83.91
0.000077	0.00195	9.00		10.90	10.90	94.81
0.000038	0.000977	10.00		3.55	3.55	98.36
0.000019	0.000488	11.00		1.49	1.49	99.85
0.000015	0.000375	11.38		0.15	0.15	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.60	0.0130	0.330
10	2.48	0.0071	0.179
16	3.04	0.0048	0.122
25	3.66	0.0031	0.079
40	4.51	0.0017	0.044
50	5.10	0.0011	0.029
60	5.75	0.0007	0.019
75	6.89	0.0003	0.008
84	7.66	0.0002	0.005
90	8.40	0.0001	0.003
95	9.05	0.0001	0.002

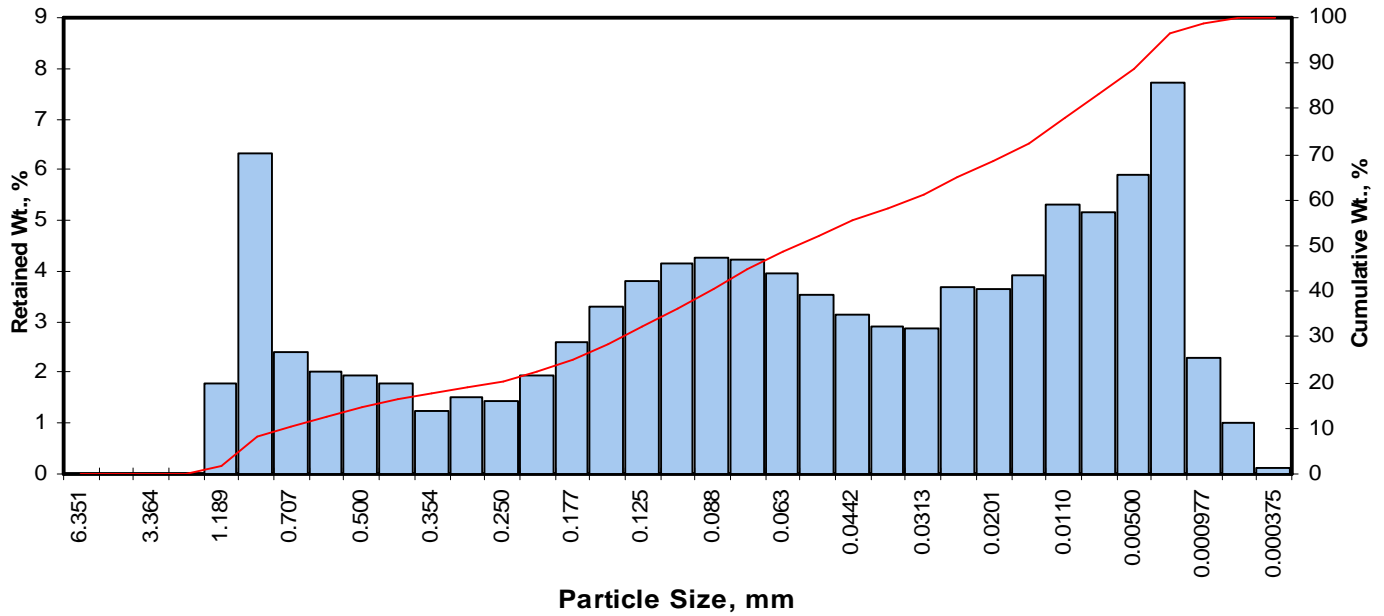
Measure	Trask	Inman	Folk-Ward
Median, phi	5.10	5.10	5.10
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.029	0.029	0.029
Mean, phi	4.51	5.35	5.27
Mean, in.	0.0017	0.0010	0.0010
Mean, mm	0.044	0.025	0.026
Sorting	3.068	2.310	2.284
Skewness	0.888	0.106	0.083
Kurtosis	0.201	0.613	0.944
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.74
Fine Sand	200	22.81
Silt	>0.005 mm	57.35
Clay	<0.005 mm	16.09
Total		100

Client: Environ
Project: Nert
Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
Sample ID: M-192-40.0
Depth, ft: 40.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.78	1.78	1.78
0.0331	0.841	0.25	20	6.33	6.33	8.11
0.0278	0.707	0.50	25	2.39	2.39	10.50
0.0234	0.595	0.75	30	2.02	2.02	12.52
0.0197	0.500	1.00	35	1.94	1.94	14.46
0.0166	0.420	1.25	40	1.77	1.77	16.23
0.0139	0.354	1.50	45	1.26	1.26	17.49
0.0117	0.297	1.75	50	1.53	1.53	19.02
0.0098	0.250	2.00	60	1.45	1.45	20.47
0.0083	0.210	2.25	70	1.93	1.93	22.40
0.0070	0.177	2.50	80	2.61	2.61	25.02
0.0059	0.149	2.75	100	3.31	3.31	28.33
0.0049	0.125	3.00	120	3.82	3.82	32.15
0.0041	0.105	3.25	140	4.14	4.14	36.29
0.0035	0.088	3.50	170	4.28	4.28	40.57
0.0029	0.074	3.75	200	4.22	4.22	44.79
0.0025	0.063	4.00	230	3.94	3.94	48.73
0.0021	0.053	4.25	270	3.53	3.53	52.26
0.00174	0.0442	4.50	325	3.15	3.15	55.41
0.00146	0.0372	4.75	400	2.92	2.92	58.33
0.00123	0.0313	5.00	450	2.88	2.88	61.21
0.000986	0.0250	5.32	500	3.70	3.70	64.91
0.000790	0.0201	5.64	635	3.66	3.66	68.57
0.000615	0.0156	6.00		3.91	3.91	72.48
0.000435	0.0110	6.50		5.33	5.33	77.82
0.000308	0.00781	7.00		5.17	5.17	82.99
0.000197	0.00500	7.65		5.91	5.91	88.90
0.000077	0.00195	9.00		7.72	7.72	96.62
0.000038	0.000977	10.00		2.28	2.28	98.90
0.000019	0.000488	11.00		1.00	1.00	99.90
0.000015	0.000375	11.38		0.10	0.10	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.00	0.0393	0.997
10	0.45	0.0289	0.733
16	1.22	0.0169	0.430
25	2.50	0.0070	0.177
40	3.47	0.0036	0.090
50	4.09	0.0023	0.059
60	4.89	0.0013	0.034
75	6.24	0.0005	0.013
84	7.11	0.0003	0.007
90	7.84	0.0002	0.004
95	8.72	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.09	4.09	4.09
Median, in.	0.0023	0.0023	0.0023
Median, mm	0.059	0.059	0.059
Mean, phi	3.39	4.16	4.14
Mean, in.	0.0037	0.0022	0.0022
Mean, mm	0.095	0.056	0.057
Sorting	3.652	2.947	2.793
Skewness	0.825	0.025	0.044
Kurtosis	0.112	0.478	0.955

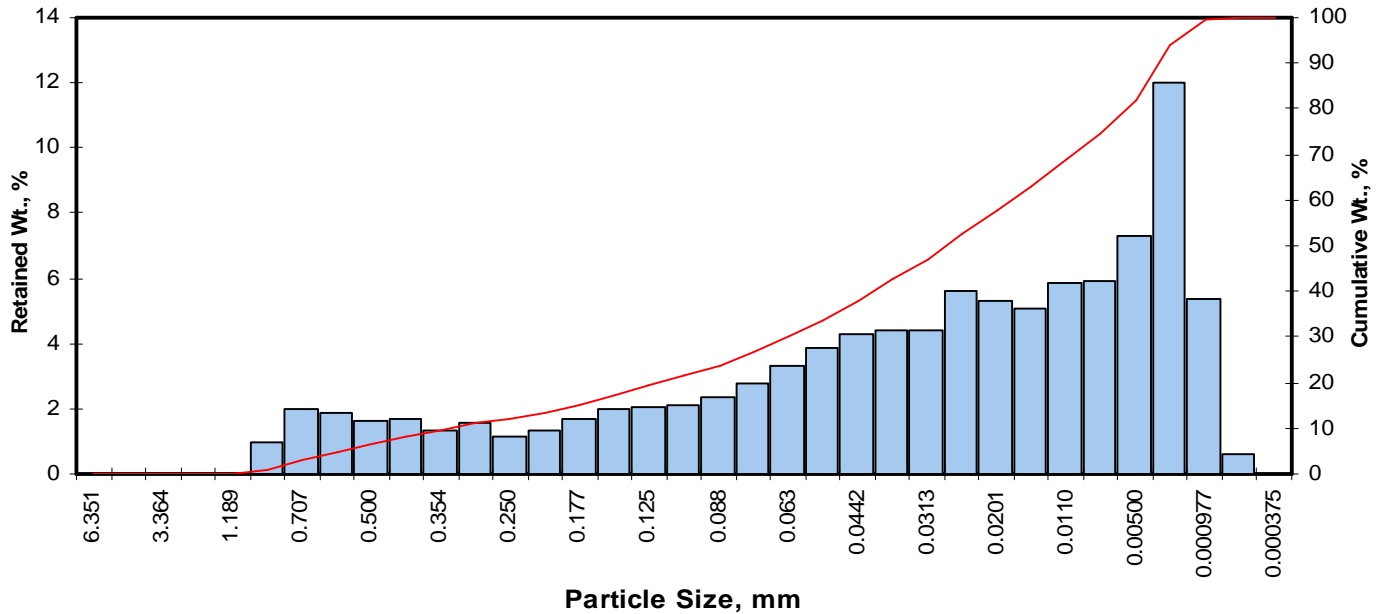
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	16.23
Fine Sand	200	28.56
Silt	>0.005 mm	44.11
Clay	<0.005 mm	11.10
Total		100

Client: Environ
Project: Nert RI
Project No: 2137300C/M03

PTS File No: 45097, 45133, 45165
Sample ID: M-161D-105.6-106.0
Depth, ft: 105.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.98	0.98	0.98
0.0278	0.707	0.50	25	2.01	2.01	2.99
0.0234	0.595	0.75	30	1.88	1.88	4.87
0.0197	0.500	1.00	35	1.63	1.63	6.50
0.0166	0.420	1.25	40	1.66	1.66	8.16
0.0139	0.354	1.50	45	1.33	1.33	9.49
0.0117	0.297	1.75	50	1.56	1.56	11.05
0.0098	0.250	2.00	60	1.17	1.17	12.22
0.0083	0.210	2.25	70	1.33	1.33	13.55
0.0070	0.177	2.50	80	1.71	1.71	15.26
0.0059	0.149	2.75	100	2.02	2.02	17.28
0.0049	0.125	3.00	120	2.08	2.08	19.36
0.0041	0.105	3.25	140	2.14	2.14	21.50
0.0035	0.088	3.50	170	2.37	2.37	23.87
0.0029	0.074	3.75	200	2.78	2.78	26.65
0.0025	0.063	4.00	230	3.31	3.31	29.96
0.0021	0.053	4.25	270	3.84	3.84	33.80
0.00174	0.0442	4.50	325	4.28	4.28	38.08
0.00146	0.0372	4.75	400	4.43	4.43	42.51
0.00123	0.0313	5.00	450	4.43	4.43	46.94
0.000986	0.0250	5.32	500	5.59	5.59	52.54
0.000790	0.0201	5.64	635	5.33	5.33	57.87
0.000615	0.0156	6.00		5.07	5.07	62.94
0.000435	0.0110	6.50		5.86	5.86	68.80
0.000308	0.00781	7.00		5.93	5.93	74.73
0.000197	0.00500	7.65		7.30	7.30	82.03
0.000077	0.00195	9.00		12.00	12.00	94.03
0.000038	0.000977	10.00		5.39	5.39	99.42
0.000019	0.000488	11.00		0.58	0.58	100.00
0.000015	0.000375	11.38		0.00	0.00	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.77	0.0231	0.586
10	1.58	0.0132	0.334
16	2.59	0.0065	0.166
25	3.60	0.0032	0.082
40	4.61	0.0016	0.041
50	5.17	0.0011	0.028
60	5.79	0.0007	0.018
75	7.02	0.0003	0.008
84	7.87	0.0002	0.004
90	8.55	0.0001	0.003
95	9.18	0.0001	0.002

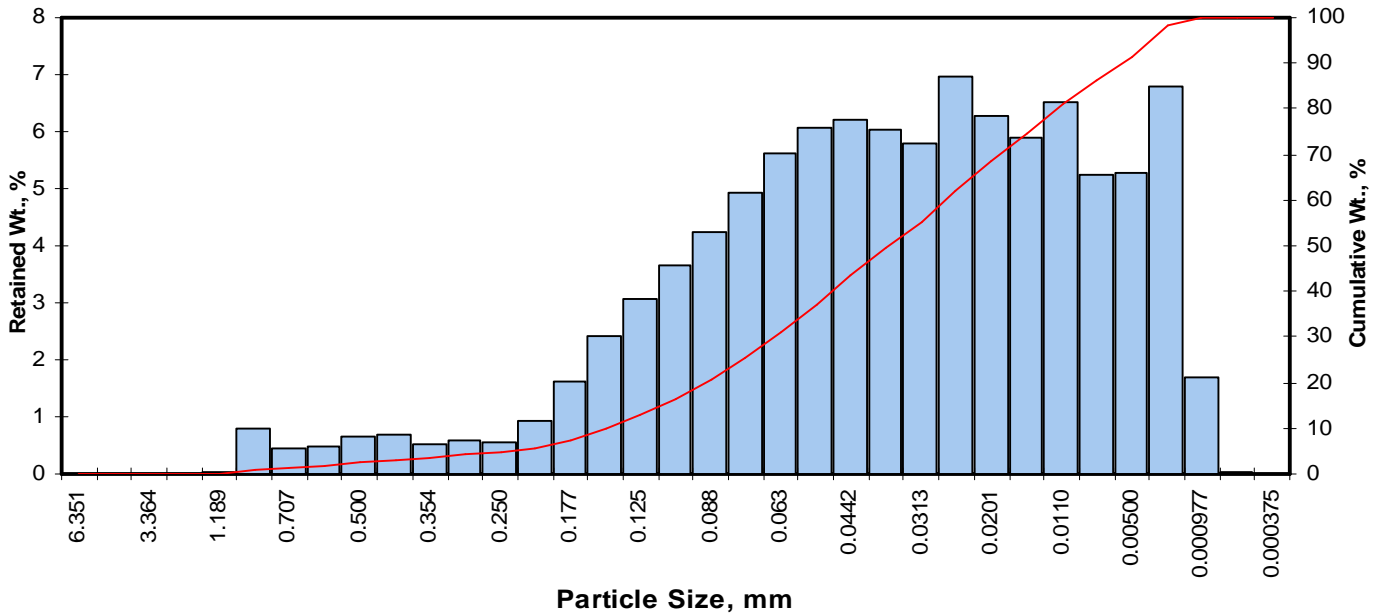
Measure	Trask	Inman	Folk-Ward
Median, phi	5.17	5.17	5.17
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.028	0.028	0.028
Mean, phi	4.47	5.23	5.21
Mean, in.	0.0018	0.0010	0.0011
Mean, mm	0.045	0.027	0.027
Sorting	3.275	2.638	2.593
Skewness	0.909	0.021	-0.013
Kurtosis	0.113	0.594	1.007
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	8.16
Fine Sand	200	18.49
Silt	>0.005 mm	55.38
Clay	<0.005 mm	17.97
Total		100

Client: Environ
Project: Nert RI
Project No: 2137300C/M03

PTS File No: 45097, 45133, 45165
Sample ID: M-161D-114.7-115.0
Depth, ft: 114.7-115.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.03	0.03	0.03
0.0331	0.841	0.25	20	0.81	0.81	0.84
0.0278	0.707	0.50	25	0.45	0.45	1.29
0.0234	0.595	0.75	30	0.48	0.48	1.77
0.0197	0.500	1.00	35	0.64	0.64	2.41
0.0166	0.420	1.25	40	0.69	0.69	3.10
0.0139	0.354	1.50	45	0.51	0.51	3.61
0.0117	0.297	1.75	50	0.57	0.57	4.18
0.0098	0.250	2.00	60	0.55	0.55	4.73
0.0083	0.210	2.25	70	0.94	0.94	5.67
0.0070	0.177	2.50	80	1.61	1.61	7.28
0.0059	0.149	2.75	100	2.42	2.42	9.70
0.0049	0.125	3.00	120	3.08	3.08	12.78
0.0041	0.105	3.25	140	3.64	3.64	16.42
0.0035	0.088	3.50	170	4.23	4.23	20.65
0.0029	0.074	3.75	200	4.93	4.93	25.58
0.0025	0.063	4.00	230	5.61	5.61	31.19
0.0021	0.053	4.25	270	6.06	6.06	37.25
0.00174	0.0442	4.50	325	6.20	6.20	43.45
0.00146	0.0372	4.75	400	6.03	6.03	49.48
0.00123	0.0313	5.00	450	5.79	5.79	55.27
0.000986	0.0250	5.32	500	6.98	6.98	62.25
0.000790	0.0201	5.64	635	6.29	6.29	68.54
0.000615	0.0156	6.00		5.91	5.91	74.45
0.000435	0.0110	6.50		6.52	6.52	80.96
0.000308	0.00781	7.00		5.24	5.24	86.20
0.000197	0.00500	7.65		5.28	5.28	91.48
0.000077	0.00195	9.00		6.78	6.78	98.26
0.000038	0.000977	10.00		1.69	1.69	99.95
0.000019	0.000488	11.00		0.05	0.05	100.00
0.000015	0.000375	11.38		0.00	0.00	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.07	0.0094	0.238
10	2.77	0.0058	0.146
16	3.22	0.0042	0.107
25	3.72	0.0030	0.076
40	4.36	0.0019	0.049
50	4.77	0.0014	0.037
60	5.22	0.0011	0.027
75	6.04	0.0006	0.015
84	6.79	0.0004	0.009
90	7.46	0.0002	0.006
95	8.35	0.0001	0.003

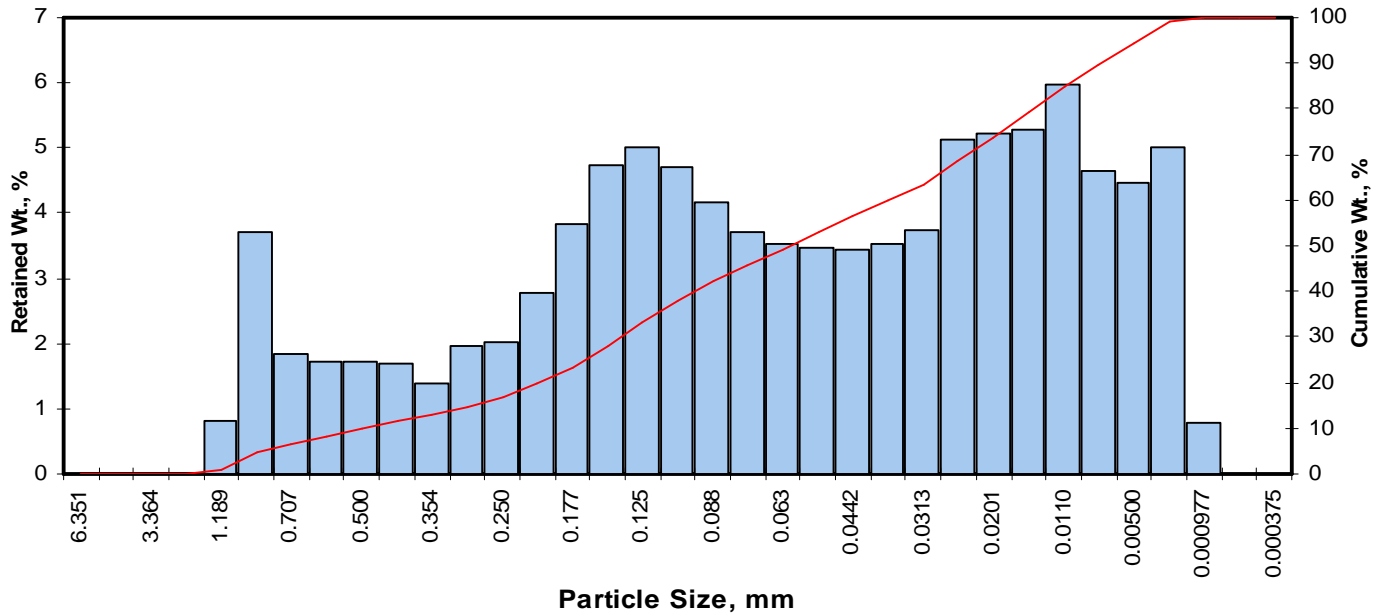
Measure	Trask	Inman	Folk-Ward
Median, phi	4.77	4.77	4.77
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.037	0.037	0.037
Mean, phi	4.46	5.01	4.93
Mean, in.	0.0018	0.0012	0.0013
Mean, mm	0.046	0.031	0.033
Sorting	2.236	1.784	1.843
Skewness	0.927	0.131	0.135
Kurtosis	0.216	0.759	1.108
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.10
Fine Sand	200	22.48
Silt	>0.005 mm	65.91
Clay	<0.005 mm	8.52
Total		100

Client: Environ
Project: Nert RI
Project No: 2137300C/M03

PTS File No: 45097, 45133, 45165
Sample ID: M-161D-126.5-126.8
Depth, ft: 126.5-126.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.82	0.82	0.82
0.0331	0.841	0.25	20	3.71	3.71	4.53
0.0278	0.707	0.50	25	1.85	1.85	6.38
0.0234	0.595	0.75	30	1.73	1.73	8.11
0.0197	0.500	1.00	35	1.71	1.71	9.82
0.0166	0.420	1.25	40	1.69	1.69	11.51
0.0139	0.354	1.50	45	1.38	1.38	12.89
0.0117	0.297	1.75	50	1.95	1.95	14.84
0.0098	0.250	2.00	60	2.03	2.03	16.87
0.0083	0.210	2.25	70	2.79	2.79	19.66
0.0070	0.177	2.50	80	3.82	3.82	23.48
0.0059	0.149	2.75	100	4.75	4.75	28.23
0.0049	0.125	3.00	120	5.02	5.02	33.25
0.0041	0.105	3.25	140	4.70	4.70	37.95
0.0035	0.088	3.50	170	4.15	4.15	42.10
0.0029	0.074	3.75	200	3.72	3.72	45.82
0.0025	0.063	4.00	230	3.53	3.53	49.35
0.0021	0.053	4.25	270	3.46	3.46	52.81
0.00174	0.0442	4.50	325	3.45	3.45	56.26
0.00146	0.0372	4.75	400	3.52	3.52	59.78
0.00123	0.0313	5.00	450	3.73	3.73	63.51
0.000986	0.0250	5.32	500	5.13	5.13	68.64
0.000790	0.0201	5.64	635	5.22	5.22	73.86
0.000615	0.0156	6.00		5.27	5.27	79.13
0.000435	0.0110	6.50		5.97	5.97	85.10
0.000308	0.00781	7.00		4.66	4.66	89.76
0.000197	0.00500	7.65		4.46	4.46	94.22
0.000077	0.00195	9.00		5.01	5.01	99.23
0.000038	0.000977	10.00		0.77	0.77	100.00
0.000019	0.000488	11.00		0.00	0.00	100.00
0.000015	0.000375	11.38		0.00	0.00	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.31	0.0317	0.805
10	1.03	0.0193	0.491
16	1.89	0.0106	0.269
25	2.58	0.0066	0.167
40	3.37	0.0038	0.096
50	4.05	0.0024	0.060
60	4.76	0.0014	0.037
75	5.72	0.0007	0.019
84	6.41	0.0005	0.012
90	7.03	0.0003	0.008
95	7.86	0.0002	0.004

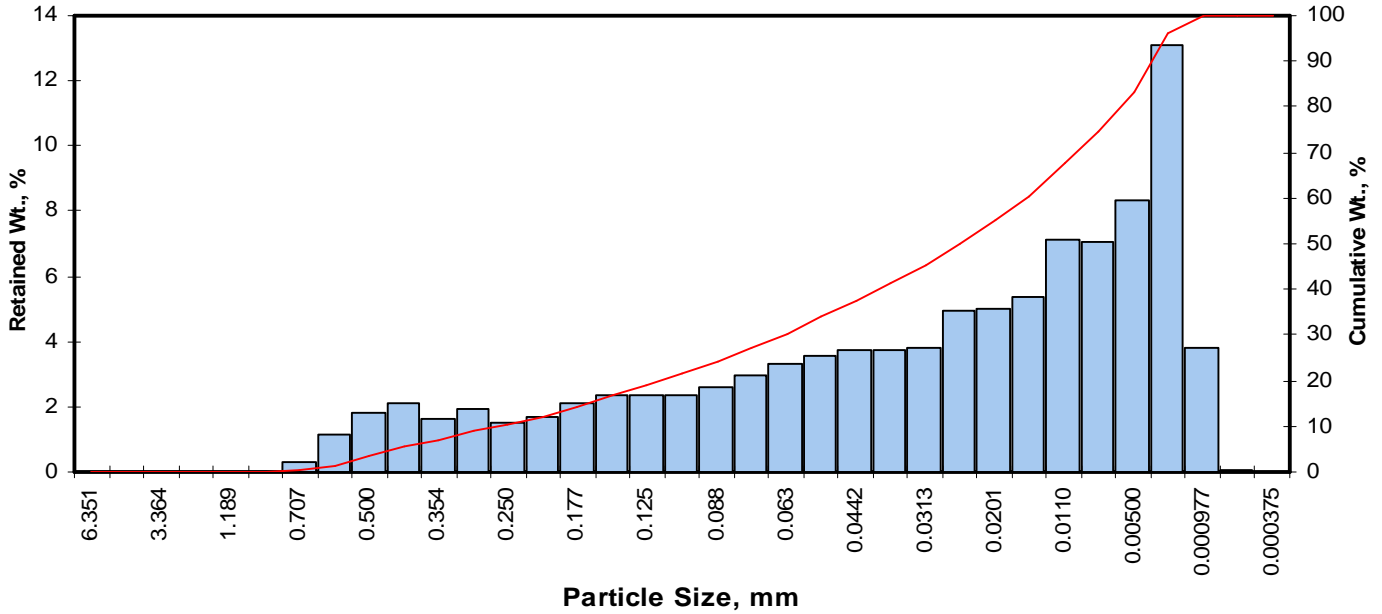
Measure	Trask	Inman	Folk-Ward
Median, phi	4.05	4.05	4.05
Median, in.	0.0024	0.0024	0.0024
Median, mm	0.060	0.060	0.060
Mean, phi	3.42	4.15	4.12
Mean, in.	0.0037	0.0022	0.0023
Mean, mm	0.093	0.056	0.058
Sorting	2.967	2.258	2.272
Skewness	0.932	0.046	0.028
Kurtosis	0.153	0.671	0.985
Grain Size Description		Fine sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	11.51
Fine Sand	200	34.31
Silt	>0.005 mm	48.40
Clay	<0.005 mm	5.78
Total		100

Client: Environ
Project: Nert RI
Project No: 2137300C/M03

PTS File No: 45097, 45133, 45165
Sample ID: M-161D-149.5-149.75
Depth, ft: 149.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.02	0.02	0.02
0.0278	0.707	0.50	25	0.32	0.32	0.34
0.0234	0.595	0.75	30	1.15	1.15	1.49
0.0197	0.500	1.00	35	1.84	1.84	3.33
0.0166	0.420	1.25	40	2.09	2.09	5.42
0.0139	0.354	1.50	45	1.65	1.65	7.07
0.0117	0.297	1.75	50	1.92	1.92	8.98
0.0098	0.250	2.00	60	1.48	1.48	10.46
0.0083	0.210	2.25	70	1.70	1.70	12.16
0.0070	0.177	2.50	80	2.12	2.12	14.28
0.0059	0.149	2.75	100	2.38	2.38	16.66
0.0049	0.125	3.00	120	2.36	2.36	19.02
0.0041	0.105	3.25	140	2.38	2.38	21.40
0.0035	0.088	3.50	170	2.62	2.62	24.02
0.0029	0.074	3.75	200	2.98	2.98	27.00
0.0025	0.063	4.00	230	3.33	3.33	30.33
0.0021	0.053	4.25	270	3.56	3.56	33.89
0.00174	0.0442	4.50	325	3.72	3.72	37.60
0.00146	0.0372	4.75	400	3.77	3.77	41.37
0.00123	0.0313	5.00	450	3.79	3.79	45.16
0.000986	0.0250	5.32	500	4.92	4.92	50.08
0.000790	0.0201	5.64	635	5.02	5.02	55.10
0.000615	0.0156	6.00		5.38	5.38	60.48
0.000435	0.0110	6.50		7.14	7.14	67.61
0.000308	0.00781	7.00		7.07	7.07	74.68
0.000197	0.00500	7.65		8.32	8.32	83.00
0.000077	0.00195	9.00		13.10	13.10	96.09
0.000038	0.000977	10.00		3.83	3.83	99.92
0.000019	0.000488	11.00		0.08	0.08	100.00
0.000015	0.000375	11.38		0.00	0.00	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.20	0.0171	0.435
10	1.92	0.0104	0.264
16	2.68	0.0061	0.156
25	3.58	0.0033	0.083
40	4.66	0.0016	0.040
50	5.31	0.0010	0.025
60	5.97	0.0006	0.016
75	7.02	0.0003	0.008
84	7.75	0.0002	0.005
90	8.37	0.0001	0.003
95	8.89	0.0001	0.002

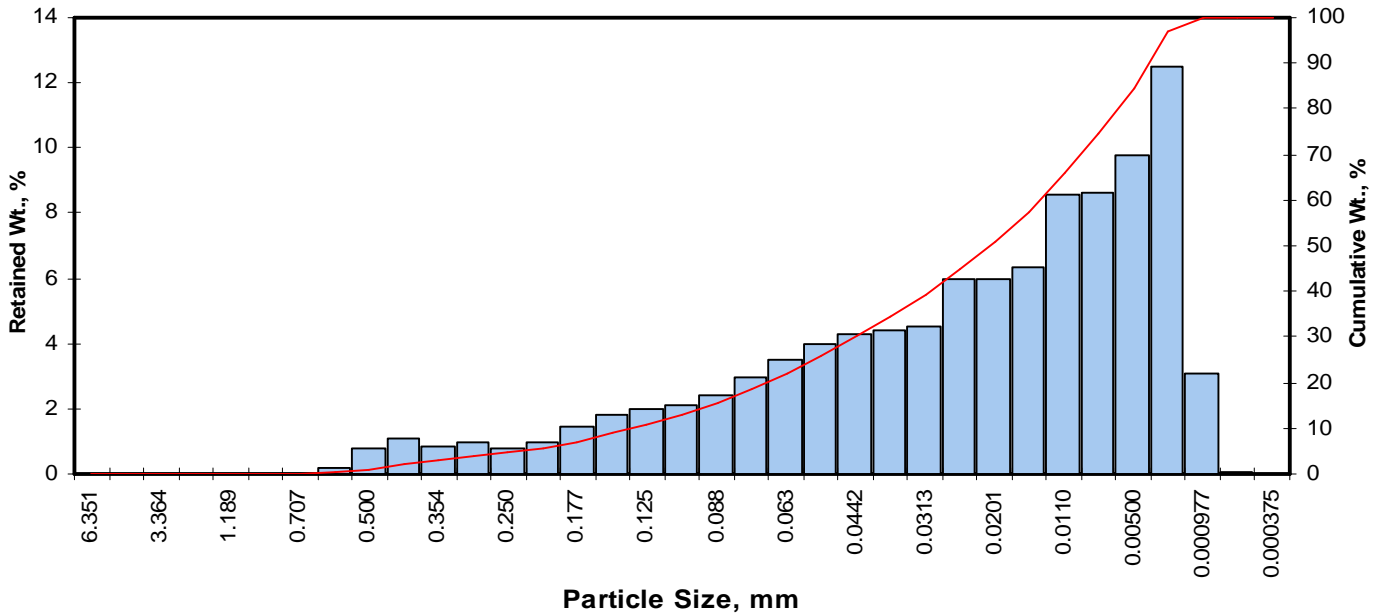
Measure	Trask	Inman	Folk-Ward
Median, phi	5.31	5.31	5.31
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.025	0.025	0.025
Mean, phi	4.46	5.21	5.25
Mean, in.	0.0018	0.0011	0.0010
Mean, mm	0.046	0.027	0.026
Sorting	3.297	2.534	2.432
Skewness	1.008	-0.040	-0.055
Kurtosis	0.145	0.517	0.915
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.42
Fine Sand	200	21.58
Silt	>0.005 mm	56.00
Clay	<0.005 mm	17.00
Total		100

Client: Environ
Project: Nert RI
Project No: 2137300C/M03

PTS File No: 45097, 45133, 45165
Sample ID: M-162D-123.7-124.0
Depth, ft: 123.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.01	0.01	0.01
0.0234	0.595	0.75	30	0.21	0.21	0.22
0.0197	0.500	1.00	35	0.80	0.80	1.02
0.0166	0.420	1.25	40	1.07	1.07	2.09
0.0139	0.354	1.50	45	0.85	0.85	2.94
0.0117	0.297	1.75	50	0.98	0.98	3.92
0.0098	0.250	2.00	60	0.78	0.78	4.70
0.0083	0.210	2.25	70	0.99	0.99	5.69
0.0070	0.177	2.50	80	1.42	1.42	7.11
0.0059	0.149	2.75	100	1.82	1.82	8.93
0.0049	0.125	3.00	120	2.00	2.00	10.93
0.0041	0.105	3.25	140	2.12	2.12	13.05
0.0035	0.088	3.50	170	2.42	2.42	15.47
0.0029	0.074	3.75	200	2.93	2.93	18.40
0.0025	0.063	4.00	230	3.52	3.52	21.92
0.0021	0.053	4.25	270	3.98	3.98	25.90
0.00174	0.0442	4.50	325	4.27	4.27	30.17
0.00146	0.0372	4.75	400	4.39	4.39	34.56
0.00123	0.0313	5.00	450	4.51	4.51	39.08
0.000986	0.0250	5.32	500	5.95	5.95	45.03
0.000790	0.0201	5.64	635	5.99	5.99	51.02
0.000615	0.0156	6.00		6.32	6.32	57.34
0.000435	0.0110	6.50		8.57	8.57	65.91
0.000308	0.00781	7.00		8.64	8.64	74.55
0.000197	0.00500	7.65		9.80	9.80	84.35
0.000077	0.00195	9.00		12.50	12.50	96.85
0.000038	0.000977	10.00		3.07	3.07	99.92
0.000019	0.000488	11.00		0.08	0.08	100.00
0.000015	0.000375	11.38		0.00	0.00	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.08	0.0093	0.237
10	2.88	0.0053	0.136
16	3.55	0.0034	0.086
25	4.19	0.0022	0.055
40	5.05	0.0012	0.030
50	5.59	0.0008	0.021
60	6.16	0.0006	0.014
75	7.03	0.0003	0.008
84	7.62	0.0002	0.005
90	8.26	0.0001	0.003
95	8.80	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.59	5.59	5.59
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	5.00	5.58	5.58
Mean, in.	0.0012	0.0008	0.0008
Mean, mm	0.031	0.021	0.021
Sorting	2.672	2.038	2.038
Skewness	0.982	-0.001	-0.023
Kurtosis	0.178	0.649	0.972

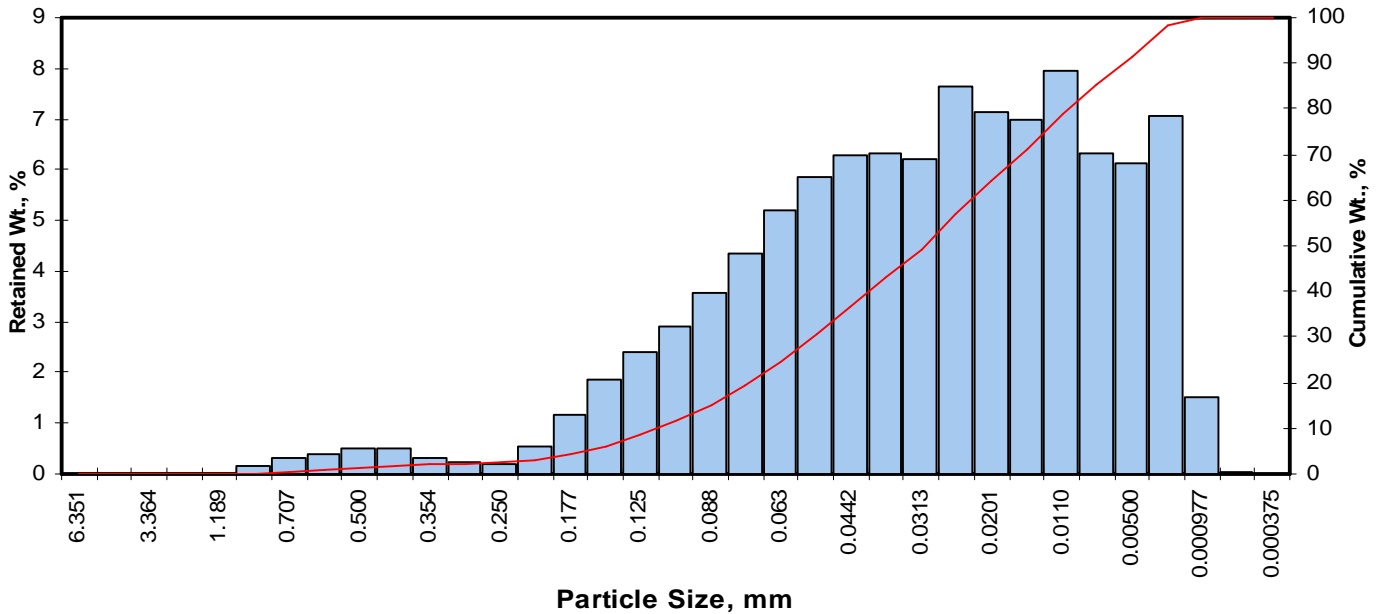
Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.09
Fine Sand	200	16.31
Silt	>0.005 mm	65.95
Clay	<0.005 mm	15.65
Total		100

Client: Environ
Project: Nert RI
Project No: 2137300C/M03

PTS File No: 45097, 45133, 45165
Sample ID: M-186D-166.0
Depth, ft: 165.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.14	0.14	0.14
0.0278	0.707	0.50	25	0.31	0.31	0.45
0.0234	0.595	0.75	30	0.39	0.39	0.84
0.0197	0.500	1.00	35	0.49	0.49	1.33
0.0166	0.420	1.25	40	0.51	0.51	1.84
0.0139	0.354	1.50	45	0.31	0.31	2.15
0.0117	0.297	1.75	50	0.22	0.22	2.37
0.0098	0.250	2.00	60	0.20	0.20	2.57
0.0083	0.210	2.25	70	0.53	0.53	3.10
0.0070	0.177	2.50	80	1.17	1.17	4.27
0.0059	0.149	2.75	100	1.86	1.86	6.13
0.0049	0.125	3.00	120	2.39	2.39	8.52
0.0041	0.105	3.25	140	2.92	2.92	11.44
0.0035	0.088	3.50	170	3.57	3.57	15.01
0.0029	0.074	3.75	200	4.36	4.36	19.37
0.0025	0.063	4.00	230	5.19	5.19	24.56
0.0021	0.053	4.25	270	5.87	5.87	30.43
0.00174	0.0442	4.50	325	6.29	6.29	36.72
0.00146	0.0372	4.75	400	6.32	6.32	43.04
0.00123	0.0313	5.00	450	6.19	6.19	49.23
0.000986	0.0250	5.32	500	7.64	7.64	56.87
0.000790	0.0201	5.64	635	7.15	7.15	64.02
0.000615	0.0156	6.00		6.98	6.98	71.00
0.000435	0.0110	6.50		7.94	7.94	78.94
0.000308	0.00781	7.00		6.33	6.33	85.26
0.000197	0.00500	7.65		6.12	6.12	91.38
0.000077	0.00195	9.00		7.08	7.08	98.46
0.000038	0.000977	10.00		1.51	1.51	99.97
0.000019	0.000488	11.00		0.03	0.03	100.00
0.000015	0.000375	11.38		0.00	0.00	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.60	0.0065	0.165
10	3.13	0.0045	0.114
16	3.56	0.0033	0.085
25	4.02	0.0024	0.062
40	4.63	0.0016	0.040
50	5.03	0.0012	0.031
60	5.46	0.0009	0.023
75	6.25	0.0005	0.013
84	6.90	0.0003	0.008
90	7.50	0.0002	0.006
95	8.34	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	5.03	5.03	5.03
Median, in.	0.0012	0.0012	0.0012
Median, mm	0.031	0.031	0.031
Mean, phi	4.74	5.23	5.16
Mean, in.	0.0015	0.0011	0.0011
Mean, mm	0.037	0.027	0.028
Sorting	2.168	1.672	1.705
Skewness	0.931	0.117	0.134
Kurtosis	0.223	0.717	1.053
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.84
Fine Sand	200	17.53
Silt	>0.005 mm	72.02
Clay	<0.005 mm	8.62
Total		100

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422M)

PROJECT NAME: Nert
 PROJECT NO: 21-37300C M01, M02, M03

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size			Silt/Clay
					Coarse	Medium	Fine	
PC-153-17.0	17.0	Medium sand	0.906	22.31	11.78	31.16	29.92	4.84
PC-159-11.0'-11.2'	11.0-11.2	Coarse sand	2.778	37.77	18.33	21.81	16.02	6.07
PC-159-13.5'-13.7'	13.5-13.7	Gravel	12.026	60.25	10.01	14.84	11.83	3.08
PC-159-16.0'-16.3'	16.0-16.3	Coarse sand	1.486	24.82	18.28	30.70	19.58	6.62
PC-159-18.3'-18.6'	18.3-18.6	Medium sand	0.409	6.76	10.14	32.47	41.91	8.72
PC-159-21.0'-21.3'	21.0-21.3	Medium sand	0.495	1.47	8.51	45.76	35.76	8.49
PC-159-24.0'-24.3'	24.0-24.3	Medium sand	0.672	6.26	14.53	41.89	29.55	7.76
RISB-09-31.0	31.0	Medium sand	0.616	17.50	13.37	25.24	28.33	15.55
RISB-12-24.0	24.0	Coarse sand	1.515	21.82	20.80	32.30	16.57	8.51
RISB-23-23.0	23.0	Coarse sand	1.429	23.59	20.61	18.97	25.58	11.25
M-190-47.0-47.5	47.1	Gravel	0.942	30.60	5.27	27.30	21.19	15.64
M-191-44.0	44.3	Fine sand	0.167	9.67	2.37	19.97	34.23	33.75
M-186D-133.7-134.0	133.7-134.0	Medium sand	0.665	6.65	11.41	49.30	26.13	6.52

(1) Based on Mean from Trask

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422M)

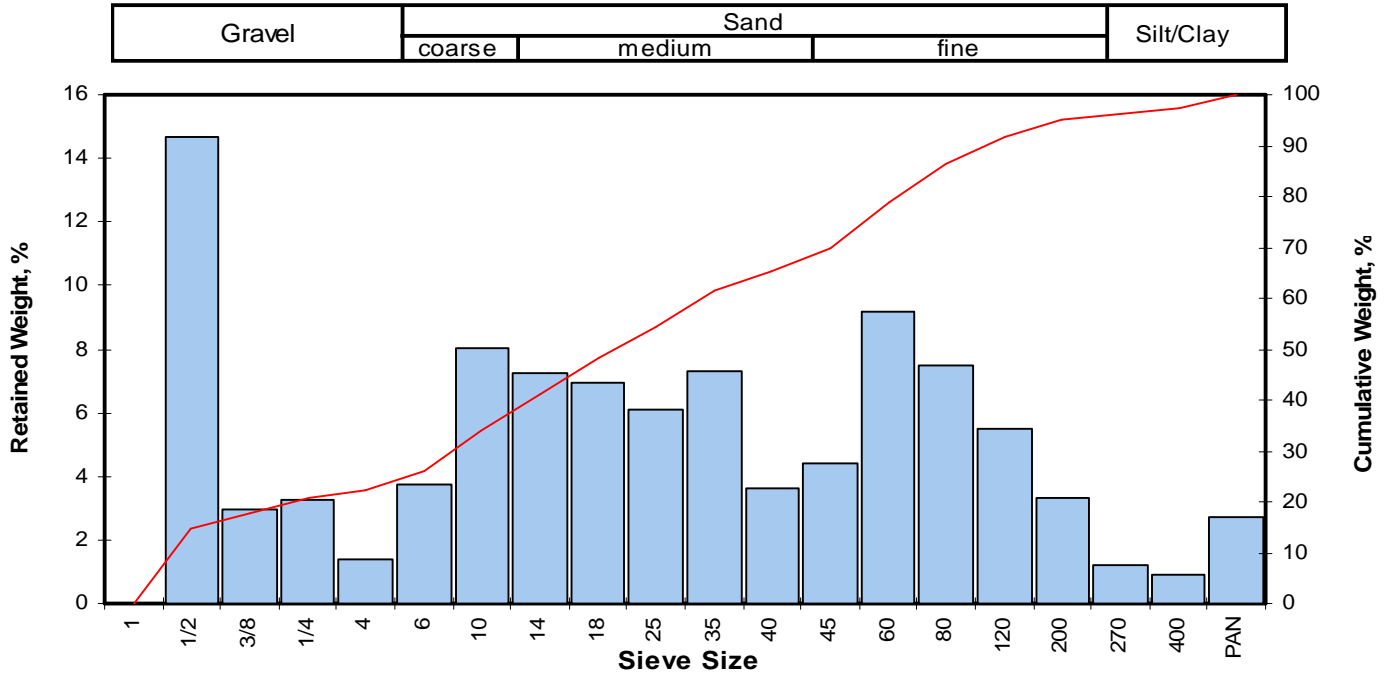
PROJECT NAME: Nert
PROJECT NO: 21-37300C M01, M02, M03

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size			Silt/Clay
					Coarse	Medium	Fine	
M-186D-144.0-144.3	144.0-144.3	Medium sand	0.377	5.60	7.41	34.66	35.15	17.18

(1) Based on Mean from Trask

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: PC-153-17.0
 Depth, ft: 17.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent	Cumulative Weight Percent greater than			
Inches	Millimeters						Weight percent	Phi Value	Particle Size	
								Inches	Millimeters	
0.9844	25.002	-4.64	1	0.00	0.00	0.00	5	0.7772	19.742	
0.4922	12.501	-3.64	1/2	22.50	14.67	14.67	10	0.6137	15.588	
0.3740	9.500	-3.25	3/8	4.52	2.95	17.62	16	0.4348	11.045	
0.2500	6.351	-2.67	1/4	5.02	3.27	20.89	25	0.1459	3.705	
0.1873	4.757	-2.25	4	2.17	1.41	22.31	40	0.0593	1.505	
0.1324	3.364	-1.75	6	5.73	3.74	26.04	50	0.0357	0.906	
0.0787	2.000	-1.00	10	12.33	8.04	34.08	60	0.0213	0.541	
0.0557	1.414	-0.50	14	11.07	7.22	41.30	75	0.0114	0.289	
0.0394	1.000	0.00	18	10.68	6.96	48.26	84	0.0078	0.197	
0.0278	0.707	0.50	25	9.33	6.08	54.35	90	0.0055	0.140	
0.0197	0.500	1.00	35	11.19	7.30	61.64	95	0.0030	0.076	
0.0166	0.420	1.25	40	5.52	3.60	65.24				
0.0139	0.354	1.50	45	6.78	4.42	69.66				
0.0098	0.250	2.00	60	14.11	9.20	78.86				
0.0070	0.177	2.50	80	11.46	7.47	86.33				
0.0049	0.125	3.00	120	8.46	5.52	91.85				
0.0029	0.074	3.75	200	5.08	3.31	95.16				
0.0021	0.053	4.25	270	1.86	1.21	96.37				
0.0015	0.037	4.75	400	1.36	0.89	97.26				
			PAN	4.20	2.74	100.00				

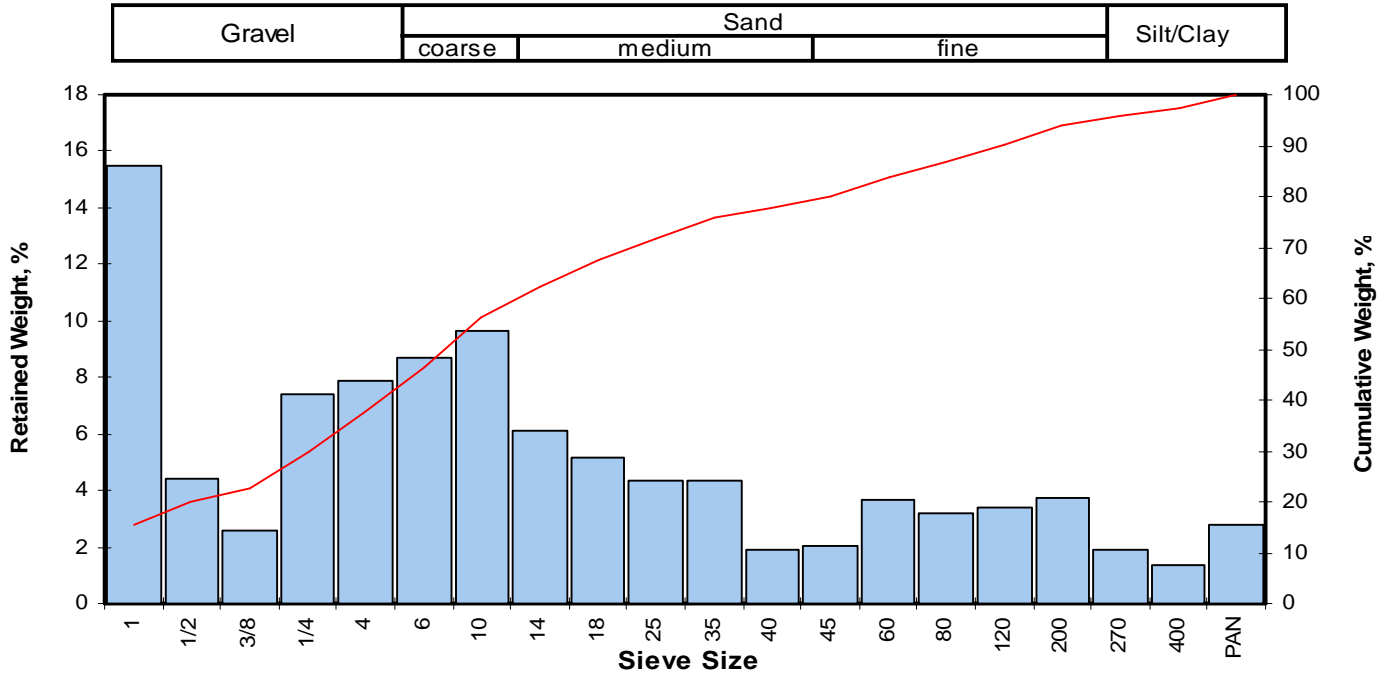
Measure	Trask	Inman	Folk-Ward
Median, phi	0.14	0.14	0.14
Median, in.	0.0357	0.0357	0.0357
Median, mm	0.906	0.906	0.906
Mean, phi	-1.00	-0.56	-0.33
Mean, in.	0.0786	0.0581	0.0494
Mean, mm	1.997	1.475	1.254
Sorting	3.580	2.905	2.667
Skewness	1.143	-0.242	-0.176
Kurtosis	0.111	0.380	0.893

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	22.31
Coarse Sand	10	11.78
Medium Sand	40	31.16
Fine Sand	200	29.92
Silt/Clay	<200	4.84
TOTALS	Total	100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: PC-159-11.0'-11.2'
 Depth, ft: 11.0-11.2



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	42.18	15.49	15.49
0.4922	12.501	-3.64	1/2	12.10	4.44	19.93
0.3740	9.500	-3.25	3/8	6.95	2.55	22.48
0.2500	6.351	-2.67	1/4	20.15	7.40	29.88
0.1873	4.757	-2.25	4	21.48	7.89	37.77
0.1324	3.364	-1.75	6	23.66	8.69	46.46
0.0787	2.000	-1.00	10	26.25	9.64	56.10
0.0557	1.414	-0.50	14	16.66	6.12	62.21
0.0394	1.000	0.00	18	14.04	5.16	67.37
0.0278	0.707	0.50	25	11.76	4.32	71.69
0.0197	0.500	1.00	35	11.78	4.33	76.01
0.0166	0.420	1.25	40	5.16	1.89	77.91
0.0139	0.354	1.50	45	5.52	2.03	79.93
0.0098	0.250	2.00	60	10.02	3.68	83.61
0.0070	0.177	2.50	80	8.61	3.16	86.77
0.0049	0.125	3.00	120	9.28	3.41	90.18
0.0029	0.074	3.75	200	10.21	3.75	93.93
0.0021	0.053	4.25	270	5.13	1.88	95.81
0.0015	0.037	4.75	400	3.77	1.38	97.20
			PAN	7.63	2.80	100.00
TOTALS				272.34	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5			
10			
16	-4.53	0.9088	23.083
25	-3.05	0.3261	8.284
40	-2.12	0.1713	4.352
50	-1.47	0.1094	2.778
60	-0.68	0.0631	1.603
75	0.88	0.0213	0.542
84	2.06	0.0094	0.240
90	2.97	0.0050	0.127
95	4.03	0.0024	0.061

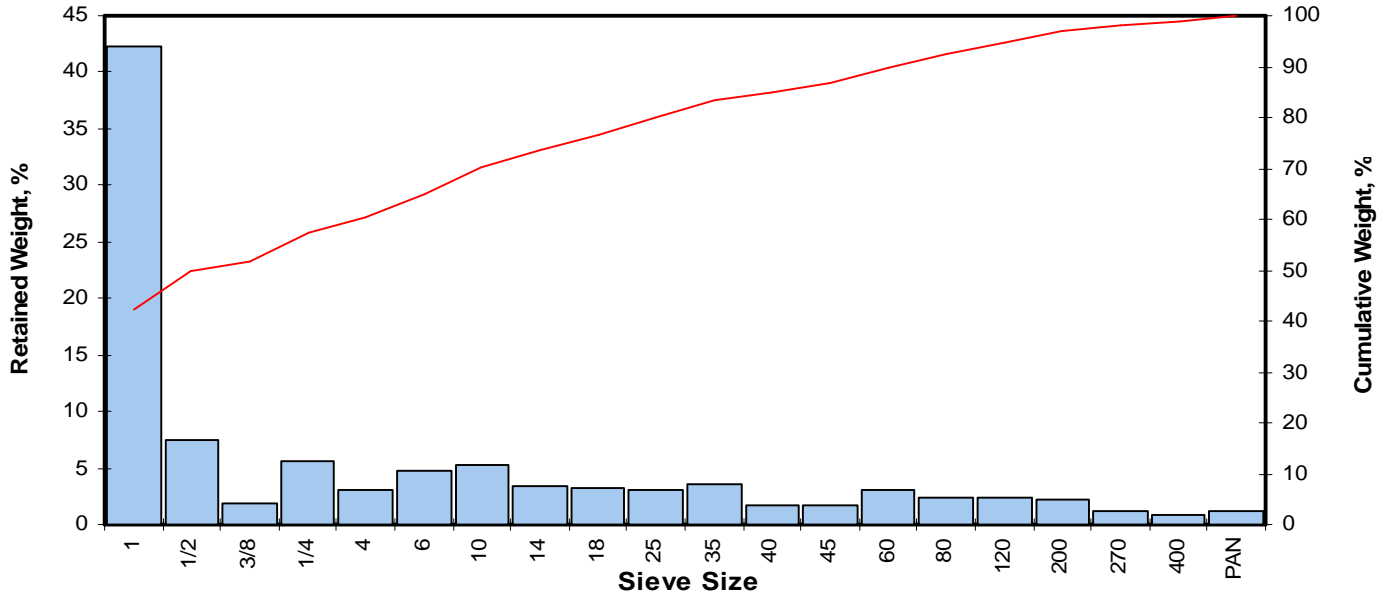
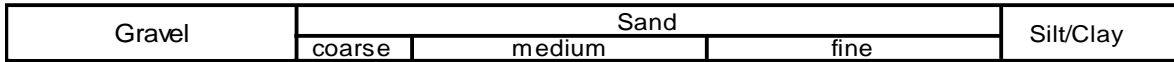
Measure	Trask	Inman	Folk-Ward
Median, phi	-1.47	-1.47	-1.47
Median, in.	0.1094	0.1094	0.1094
Median, mm	2.778	2.778	2.778
Mean, phi	-2.14	-1.23	-1.31
Mean, in.	0.1737	0.0926	0.0979
Mean, mm	4.413	2.352	2.486
Sorting	3.909	3.295	
Skewness	0.763	0.073	
Kurtosis			

Grain Size Description (ASTM-USCS Scale) Coarse sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	37.77
Coarse Sand	10	18.33
Medium Sand	40	21.81
Fine Sand	200	16.02
Silt/Clay	<200	6.07
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: PC-159-13.5'-13.7'
 Depth, ft: 13.5-13.7



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent	Cumulative Weight Percent greater than			
Inches	Millimeters						Weight percent	Phi Value	Particle Size	
								Inches	Millimeters	
0.9844	25.002	-4.64	1	124.98	42.26	42.26				
0.4922	12.501	-3.64	1/2	22.14	7.49	49.74				
0.3740	9.500	-3.25	3/8	5.35	1.81	51.55				
0.2500	6.351	-2.67	1/4	16.64	5.63	57.18				
0.1873	4.757	-2.25	4	9.07	3.07	60.25				
0.1324	3.364	-1.75	6	14.23	4.81	65.06				
0.0787	2.000	-1.00	10	15.36	5.19	70.25				
0.0557	1.414	-0.50	14	9.83	3.32	73.58				
0.0394	1.000	0.00	18	9.34	3.16	76.73				
0.0278	0.707	0.50	25	9.26	3.13	79.86				
0.0197	0.500	1.00	35	10.62	3.59	83.46				
0.0166	0.420	1.25	40	4.83	1.63	85.09				
0.0139	0.354	1.50	45	5.22	1.77	86.85				
0.0098	0.250	2.00	60	9.03	3.05	89.91				
0.0070	0.177	2.50	80	7.07	2.39	92.30				
0.0049	0.125	3.00	120	6.95	2.35	94.65				
0.0029	0.074	3.75	200	6.71	2.27	96.92				
0.0021	0.053	4.25	270	3.29	1.11	98.03				
0.0015	0.037	4.75	400	2.39	0.81	98.84				
			PAN	3.44	1.16	100.00				
TOTALS							295.75	100.00	100.00	

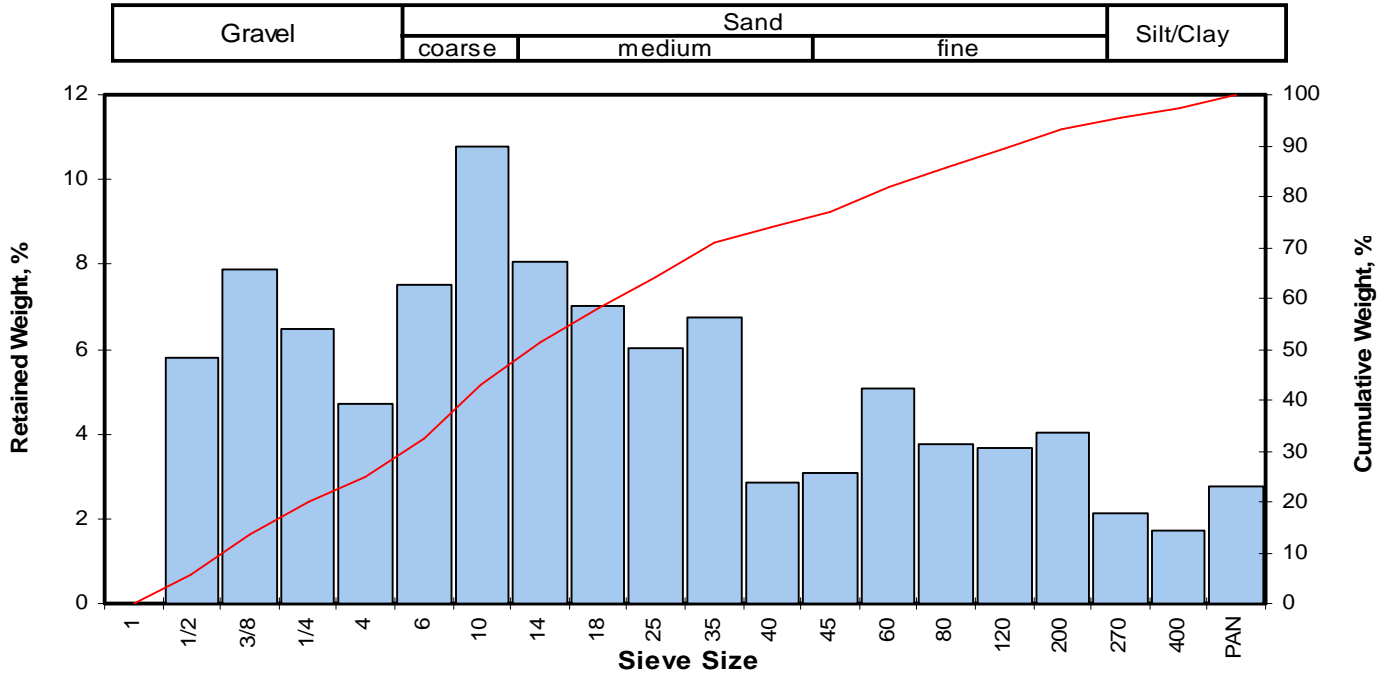
Measure	Trask	Inman	Folk-Ward
Median, phi	-3.59	-3.59	-3.59
Median, in.	0.4735	0.4735	0.4735
Median, mm	12.026	12.026	12.026
Mean, phi			
Mean, in.			
Mean, mm			
Sorting			
Skewness			
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Gravel (based on Mean from Trask)
Gravel	4
Coarse Sand	10
Medium Sand	40
Fine Sand	200
Silt/Clay	<200

Description	Retained on Sieve #	Weight Percent
Gravel	4	60.25
Coarse Sand	10	10.01
Medium Sand	40	14.84
Fine Sand	200	11.83
Silt/Clay	<200	3.08
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: PC-159-16.0'-16.3'
 Depth, ft: 16.0-16.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	13.70	5.81	5.81
0.3740	9.500	-3.25	3/8	18.53	7.86	13.67
0.2500	6.351	-2.67	1/4	15.23	6.46	20.13
0.1873	4.757	-2.25	4	11.06	4.69	24.82
0.1324	3.364	-1.75	6	17.73	7.52	32.34
0.0787	2.000	-1.00	10	25.36	10.76	43.10
0.0557	1.414	-0.50	14	19.00	8.06	51.16
0.0394	1.000	0.00	18	16.50	7.00	58.15
0.0278	0.707	0.50	25	14.21	6.03	64.18
0.0197	0.500	1.00	35	15.96	6.77	70.95
0.0166	0.420	1.25	40	6.71	2.85	73.80
0.0139	0.354	1.50	45	7.27	3.08	76.88
0.0098	0.250	2.00	60	11.93	5.06	81.94
0.0070	0.177	2.50	80	8.83	3.75	85.69
0.0049	0.125	3.00	120	8.66	3.67	89.36
0.0029	0.074	3.75	200	9.48	4.02	93.38
0.0021	0.053	4.25	270	5.07	2.15	95.53
0.0015	0.037	4.75	400	4.04	1.71	97.24
			PAN	6.50	2.76	100.00
TOTALS				235.77	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.78	0.5422	13.771
10	-3.43	0.4252	10.800
16	-3.04	0.3235	8.216
25	-2.24	0.1857	4.718
40	-1.22	0.0915	2.323
50	-0.57	0.0585	1.486
60	0.15	0.0354	0.899
75	1.35	0.0155	0.393
84	2.28	0.0081	0.207
90	3.12	0.0045	0.115
95	4.13	0.0023	0.057

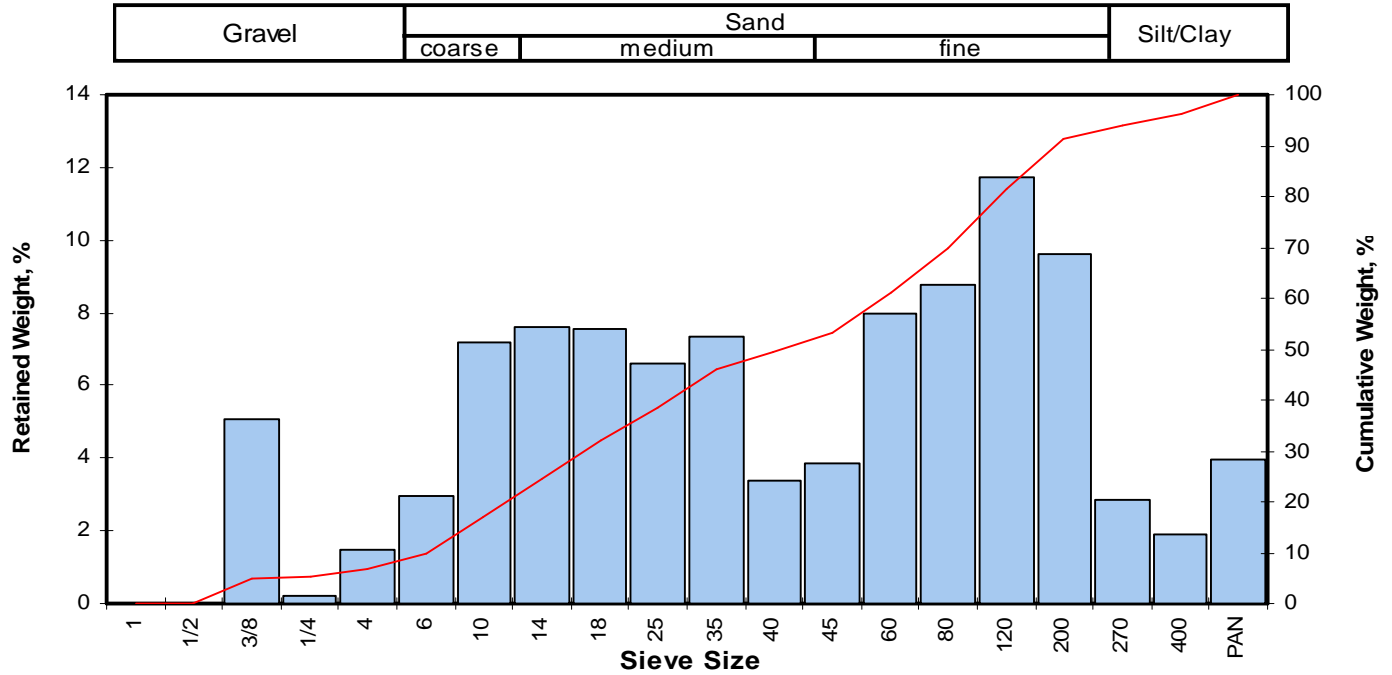
Measure	Trask	Inman	Folk-Ward
Median, phi	-0.57	-0.57	-0.57
Median, in.	0.0585	0.0585	0.0585
Median, mm	1.486	1.486	1.486
Mean, phi	-1.35	-0.38	-0.45
Mean, in.	0.1006	0.0513	0.0536
Mean, mm	2.555	1.303	1.361
Sorting	3.465	2.657	2.527
Skewness	0.916	0.072	0.130
Kurtosis	0.202	0.489	0.904

Grain Size Description (ASTM-USCS Scale) Coarse sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	24.82
Coarse Sand	10	18.28
Medium Sand	40	30.70
Fine Sand	200	19.58
Silt/Clay	<200	6.62
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: PC-159-18.3'-18.6'
 Depth, ft: 18.3-18.6



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	8.94	5.06	5.06
0.2500	6.351	-2.67	1/4	0.34	0.19	5.25
0.1873	4.757	-2.25	4	2.66	1.51	6.76
0.1324	3.364	-1.75	6	5.21	2.95	9.71
0.0787	2.000	-1.00	10	12.70	7.19	16.89
0.0557	1.414	-0.50	14	13.41	7.59	24.48
0.0394	1.000	0.00	18	13.31	7.53	32.01
0.0278	0.707	0.50	25	11.70	6.62	38.64
0.0197	0.500	1.00	35	12.97	7.34	45.98
0.0166	0.420	1.25	40	5.99	3.39	49.37
0.0139	0.354	1.50	45	6.77	3.83	53.20
0.0098	0.250	2.00	60	14.06	7.96	61.15
0.0070	0.177	2.50	80	15.48	8.76	69.92
0.0049	0.125	3.00	120	20.76	11.75	81.66
0.0029	0.074	3.75	200	16.99	9.62	91.28
0.0021	0.053	4.25	270	5.02	2.84	94.12
0.0015	0.037	4.75	400	3.39	1.92	96.04
			PAN	7.00	3.96	100.00
TOTALS				176.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.25	0.3752	9.531
10	-1.72	0.1296	3.293
16	-1.09	0.0840	2.133
25	-0.47	0.0544	1.381
40	0.59	0.0261	0.663
50	1.29	0.0161	0.409
60	1.93	0.0104	0.263
75	2.72	0.0060	0.152
84	3.18	0.0043	0.110
90	3.65	0.0031	0.080
95	4.48	0.0018	0.045

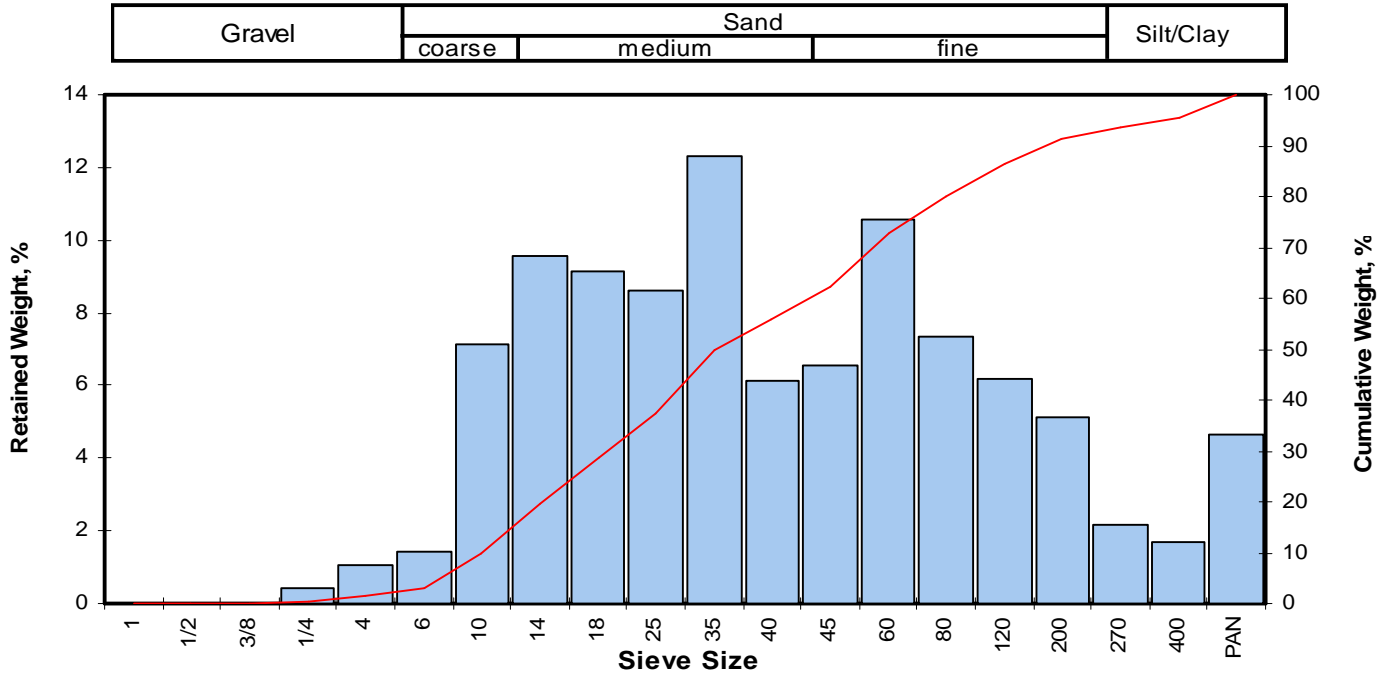
Measure	Trask	Inman	Folk-Ward
Median, phi	1.29	1.29	1.29
Median, in.	0.0161	0.0161	0.0161
Median, mm	0.409	0.409	0.409
Mean, phi	0.38	1.04	1.13
Mean, in.	0.0302	0.0191	0.0180
Mean, mm	0.767	0.485	0.458
Sorting	3.013	2.138	2.240
Skewness	1.122	-0.115	-0.145
Kurtosis	0.191	0.808	0.996

Grain Size Description (ASTM-USCS Scale) Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	6.76
Coarse Sand	10	10.14
Medium Sand	40	32.47
Fine Sand	200	41.91
Silt/Clay	<200	8.72
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: PC-159-21.0'-21.3'
 Depth, ft: 21.0-21.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.62	0.41	0.41
0.1873	4.757	-2.25	4	1.58	1.06	1.47
0.1324	3.364	-1.75	6	2.10	1.40	2.87
0.0787	2.000	-1.00	10	10.64	7.11	9.98
0.0557	1.414	-0.50	14	14.34	9.58	19.56
0.0394	1.000	0.00	18	13.69	9.15	28.71
0.0278	0.707	0.50	25	12.90	8.62	37.33
0.0197	0.500	1.00	35	18.40	12.29	49.63
0.0166	0.420	1.25	40	9.16	6.12	55.75
0.0139	0.354	1.50	45	9.78	6.53	62.28
0.0098	0.250	2.00	60	15.81	10.56	72.85
0.0070	0.177	2.50	80	10.96	7.32	80.17
0.0049	0.125	3.00	120	9.28	6.20	86.37
0.0029	0.074	3.75	200	7.69	5.14	91.51
0.0021	0.053	4.25	270	3.23	2.16	93.67
0.0015	0.037	4.75	400	2.52	1.68	95.35
			PAN	6.96	4.65	100.00
TOTALS				149.66	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.53	0.1134	2.879
10	-1.00	0.0787	1.999
16	-0.69	0.0633	1.609
25	-0.20	0.0453	1.151
40	0.61	0.0258	0.656
50	1.02	0.0195	0.495
60	1.41	0.0148	0.376
75	2.15	0.0089	0.226
84	2.81	0.0056	0.143
90	3.53	0.0034	0.087
95	4.65	0.0016	0.040

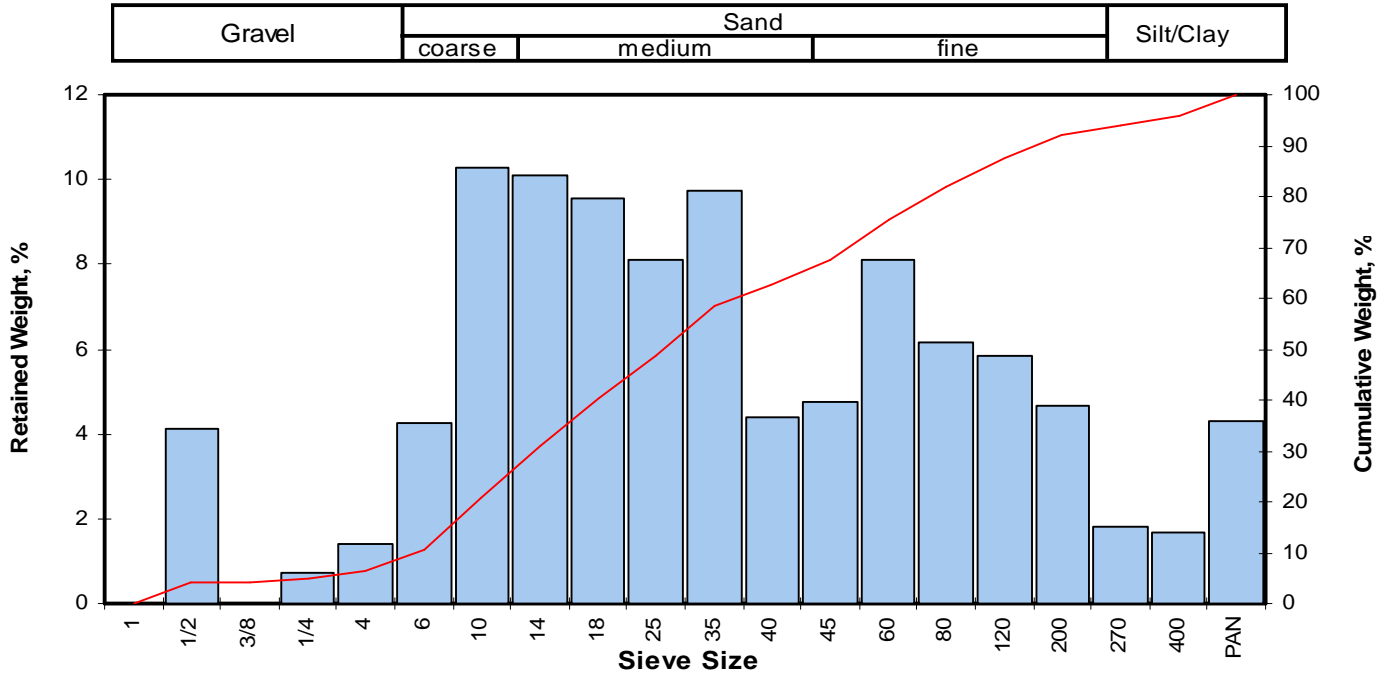
Measure	Trask	Inman	Folk-Ward
Median, phi	1.02	1.02	1.02
Median, in.	0.0195	0.0195	0.0195
Median, mm	0.495	0.495	0.495
Mean, phi	0.54	1.06	1.05
Mean, in.	0.0271	0.0189	0.0191
Mean, mm	0.688	0.479	0.484
Sorting	2.258	1.747	1.809
Skewness	1.030	0.026	0.102
Kurtosis	0.242	0.766	1.076

Grain Size Description (ASTM-USCS Scale) Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	1.47
Coarse Sand	10	8.51
Medium Sand	40	45.76
Fine Sand	200	35.76
Silt/Clay	<200	8.49
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: PC-159-24.0'-24.3'
 Depth, ft: 24.0-24.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	8.59	4.12	4.12
0.3740	9.500	-3.25	3/8	0.00	0.00	4.12
0.2500	6.351	-2.67	1/4	1.54	0.74	4.86
0.1873	4.757	-2.25	4	2.94	1.41	6.26
0.1324	3.364	-1.75	6	8.87	4.25	10.52
0.0787	2.000	-1.00	10	21.44	10.28	20.79
0.0557	1.414	-0.50	14	21.03	10.08	30.87
0.0394	1.000	0.00	18	19.97	9.57	40.44
0.0278	0.707	0.50	25	16.92	8.11	48.55
0.0197	0.500	1.00	35	20.35	9.75	58.31
0.0166	0.420	1.25	40	9.13	4.38	62.69
0.0139	0.354	1.50	45	9.94	4.76	67.45
0.0098	0.250	2.00	60	16.87	8.09	75.54
0.0070	0.177	2.50	80	12.88	6.17	81.71
0.0049	0.125	3.00	120	12.21	5.85	87.56
0.0029	0.074	3.75	200	9.76	4.68	92.24
0.0021	0.053	4.25	270	3.76	1.80	94.04
0.0015	0.037	4.75	400	3.49	1.67	95.71
			PAN	8.94	4.29	100.00
TOTALS				208.63	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.62	0.2427	6.166
10	-1.81	0.1381	3.508
16	-1.35	0.1003	2.549
25	-0.79	0.0681	1.731
40	-0.02	0.0400	1.016
50	0.57	0.0264	0.672
60	1.10	0.0184	0.468
75	1.97	0.0101	0.256
84	2.70	0.0061	0.154
90	3.39	0.0038	0.095
95	4.54	0.0017	0.043

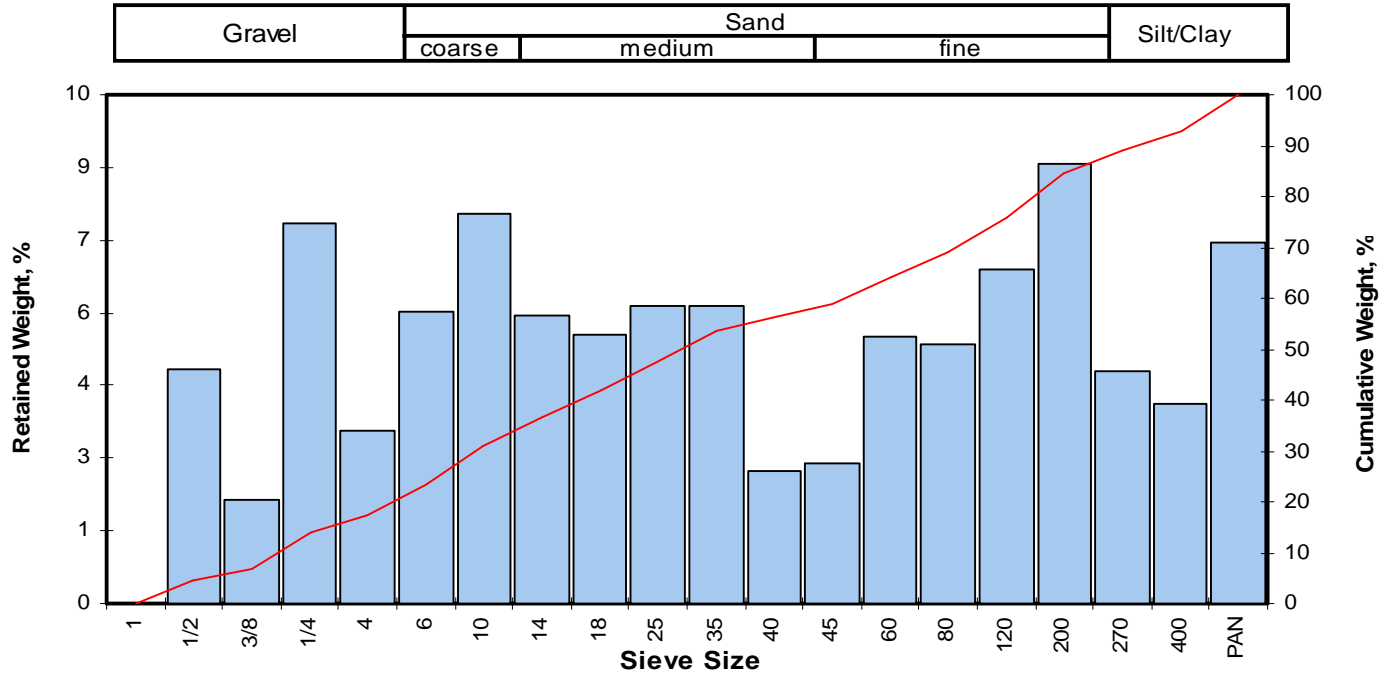
Measure	Trask	Inman	Folk-Ward
Median, phi	0.57	0.57	0.57
Median, in.	0.0264	0.0264	0.0264
Median, mm	0.672	0.672	0.672
Mean, phi	0.01	0.67	0.64
Mean, in.	0.0391	0.0247	0.0253
Mean, mm	0.993	0.627	0.642
Sorting	2.601	2.023	2.096
Skewness	0.991	0.049	0.078
Kurtosis	0.216	0.770	1.064

Grain Size Description (ASTM-USCS Scale) Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	6.26
Coarse Sand	10	14.53
Medium Sand	40	41.89
Fine Sand	200	29.55
Silt/Clay	<200	7.76
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: RISB-09-31.0
 Depth, ft: 31.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent	Cumulative Weight Percent greater than			
Inches	Millimeters						Weight percent	Phi Value	Particle Size	
								Inches	Millimeters	
0.9844	25.002	-4.64	1	0.00	0.00	0.00	5	0.4654	11.820	
0.4922	12.501	-3.64	1/2	7.66	4.59	4.59	10	0.3117	7.916	
0.3740	9.500	-3.25	3/8	3.39	2.03	6.62	16	0.2126	5.401	
0.2500	6.351	-2.67	1/4	12.48	7.47	14.09	25	0.1174	2.982	
0.1873	4.757	-2.25	4	5.70	3.41	17.50	40	0.0443	1.126	
0.1324	3.364	-1.75	6	9.57	5.73	23.23	50	0.0242	0.616	
0.0787	2.000	-1.00	10	12.77	7.64	30.87	60	0.0129	0.328	
0.0557	1.414	-0.50	14	9.44	5.65	36.52	75	0.0051	0.131	
0.0394	1.000	0.00	18	8.82	5.28	41.80	84	0.0030	0.076	
0.0278	0.707	0.50	25	9.80	5.87	47.67	90	0.0019	0.048	
0.0197	0.500	1.00	35	9.74	5.83	53.50	95			
0.0166	0.420	1.25	40	4.36	2.61	56.11				
0.0139	0.354	1.50	45	4.60	2.75	58.87				
0.0098	0.250	2.00	60	8.79	5.26	64.13				
0.0070	0.177	2.50	80	8.54	5.11	69.24				
0.0049	0.125	3.00	120	10.99	6.58	75.82				
0.0029	0.074	3.75	200	14.41	8.63	84.45				
0.0021	0.053	4.25	270	7.61	4.56	89.00				
0.0015	0.037	4.75	400	6.53	3.91	92.91				
			PAN	11.84	7.09	100.00				
TOTALS				167.04	100.00	100.00				

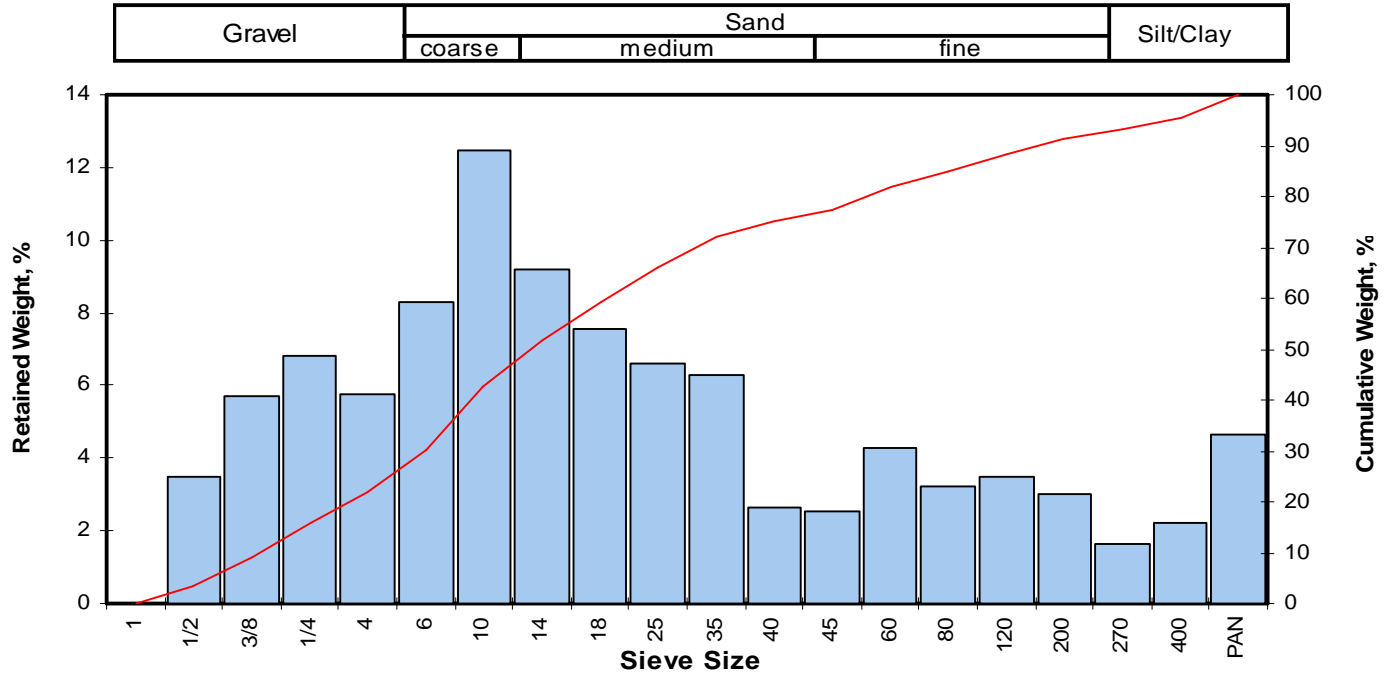
Measure	Trask	Inman	Folk-Ward
Median, phi	0.70	0.70	0.70
Median, in.	0.0242	0.0242	0.0242
Median, mm	0.616	0.616	0.616
Mean, phi	-0.64	0.64	0.66
Mean, in.	0.0613	0.0253	0.0249
Mean, mm	1.556	0.642	0.633
Sorting	4.780	3.072	
Skewness	1.013	-0.020	
Kurtosis	0.181		

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	17.50
Coarse Sand	10	13.37
Medium Sand	40	25.24
Fine Sand	200	28.33
Silt/Clay	<200	15.55
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: RISB-12-24.0
 Depth, ft: 24.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent	Cumulative Weight Percent greater than				
Inches	Millimeters						Weight percent	Phi Value	Particle Size		
								Inches	Millimeters		
0.9844	25.002	-4.64	1	0.00	0.00	0.00	5	-3.54	0.4578	11.628	
0.4922	12.501	-3.64	1/2	6.58	3.49	3.49	10	-3.18	0.3570	9.068	
0.3740	9.500	-3.25	3/8	10.78	5.72	9.21	16	-2.67	0.2506	6.365	
0.2500	6.351	-2.67	1/4	12.87	6.83	16.04	25	-2.06	0.1640	4.165	
0.1873	4.757	-2.25	4	10.90	5.78	21.82	40	-1.16	0.0878	2.230	
0.1324	3.364	-1.75	6	15.65	8.30	30.12	50	-0.60	0.0596	1.515	
0.0787	2.000	-1.00	10	23.55	12.49	42.62	60	0.05	0.0381	0.967	
0.0557	1.414	-0.50	14	17.37	9.21	51.83	75	1.26	0.0165	0.418	
0.0394	1.000	0.00	18	14.21	7.54	59.37	84	2.35	0.0077	0.196	
0.0278	0.707	0.50	25	12.42	6.59	65.96	90	3.38	0.0038	0.096	
0.0197	0.500	1.00	35	11.87	6.30	72.25	95	4.67	0.0015	0.039	
0.0166	0.420	1.25	40	5.01	2.66	74.91					
0.0139	0.354	1.50	45	4.79	2.54	77.45					
0.0098	0.250	2.00	60	8.09	4.29	81.75					
0.0070	0.177	2.50	80	6.06	3.21	84.96					
0.0049	0.125	3.00	120	6.61	3.51	88.47					
0.0029	0.074	3.75	200	5.69	3.02	91.49					
0.0021	0.053	4.25	270	3.13	1.66	93.15					
0.0015	0.037	4.75	400	4.17	2.21	95.36					
			PAN	8.75	4.64	100.00					
TOTALS							188.50	100.00	100.00		

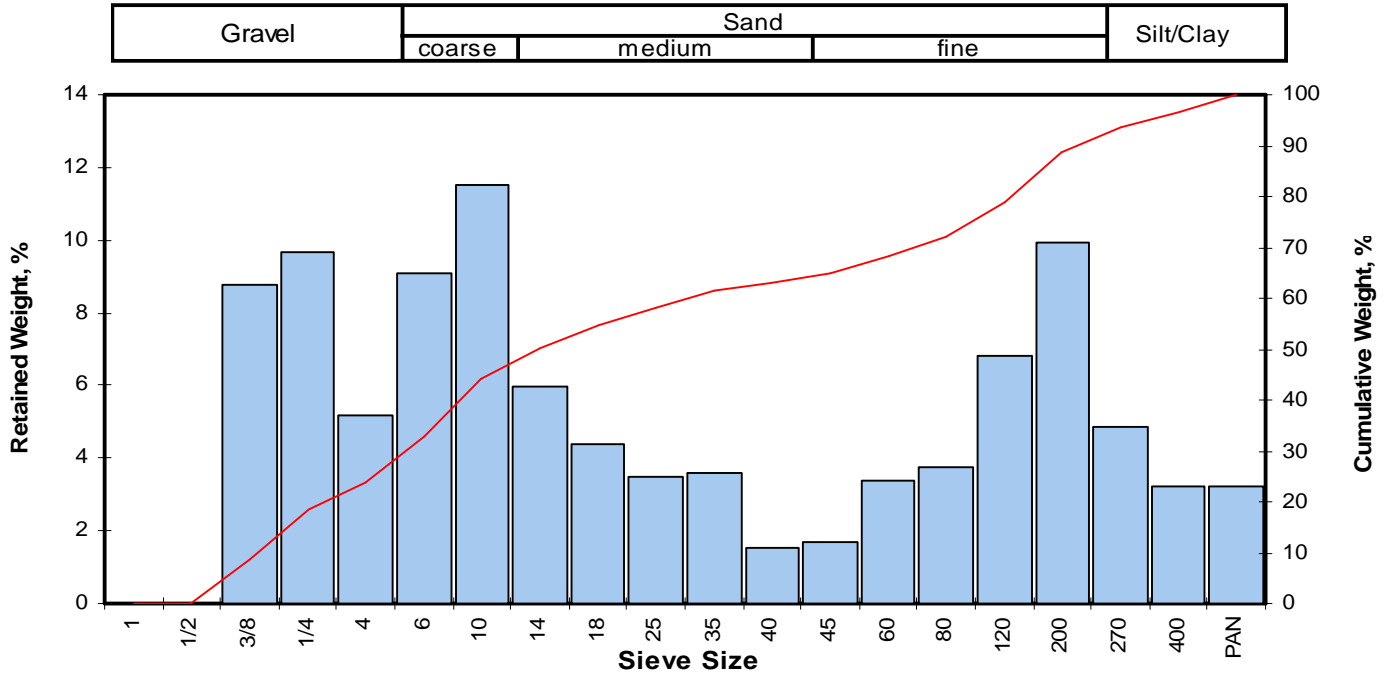
Measure	Trask	Inman	Folk-Ward
Median, phi	-0.60	-0.60	-0.60
Median, in.	0.0596	0.0596	0.0596
Median, mm	1.515	1.515	1.515
Mean, phi	-1.20	-0.16	-0.31
Mean, in.	0.0902	0.0440	0.0487
Mean, mm	2.292	1.117	1.237
Sorting	3.157	2.510	2.499
Skewness	0.871	0.175	0.229
Kurtosis	0.209	0.635	1.014

Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	21.82
Coarse Sand	10	20.80
Medium Sand	40	32.30
Fine Sand	200	16.57
Silt/Clay	<200	8.51
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: RISB-23-23.0
 Depth, ft: 23.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	9.64	8.77	8.77
0.2500	6.351	-2.67	1/4	10.62	9.66	18.43
0.1873	4.757	-2.25	4	5.67	5.16	23.59
0.1324	3.364	-1.75	6	10.00	9.10	32.68
0.0787	2.000	-1.00	10	12.66	11.52	44.20
0.0557	1.414	-0.50	14	6.57	5.98	50.18
0.0394	1.000	0.00	18	4.80	4.37	54.54
0.0278	0.707	0.50	25	3.85	3.50	58.05
0.0197	0.500	1.00	35	3.93	3.58	61.62
0.0166	0.420	1.25	40	1.70	1.55	63.17
0.0139	0.354	1.50	45	1.86	1.69	64.86
0.0098	0.250	2.00	60	3.72	3.38	68.24
0.0070	0.177	2.50	80	4.13	3.76	72.00
0.0049	0.125	3.00	120	7.50	6.82	78.82
0.0029	0.074	3.75	200	10.91	9.92	88.75
0.0021	0.053	4.25	270	5.32	4.84	93.59
0.0015	0.037	4.75	400	3.52	3.20	96.79
			PAN	3.53	3.21	100.00
TOTALS				109.93	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.42	0.4209	10.690
10	-3.17	0.3553	9.025
16	-2.81	0.2767	7.028
25	-2.17	0.1775	4.508
40	-1.27	0.0952	2.418
50	-0.51	0.0563	1.429
60	0.77	0.0230	0.585
75	2.72	0.0060	0.152
84	3.39	0.0038	0.095
90	3.88	0.0027	0.068
95	4.47	0.0018	0.045

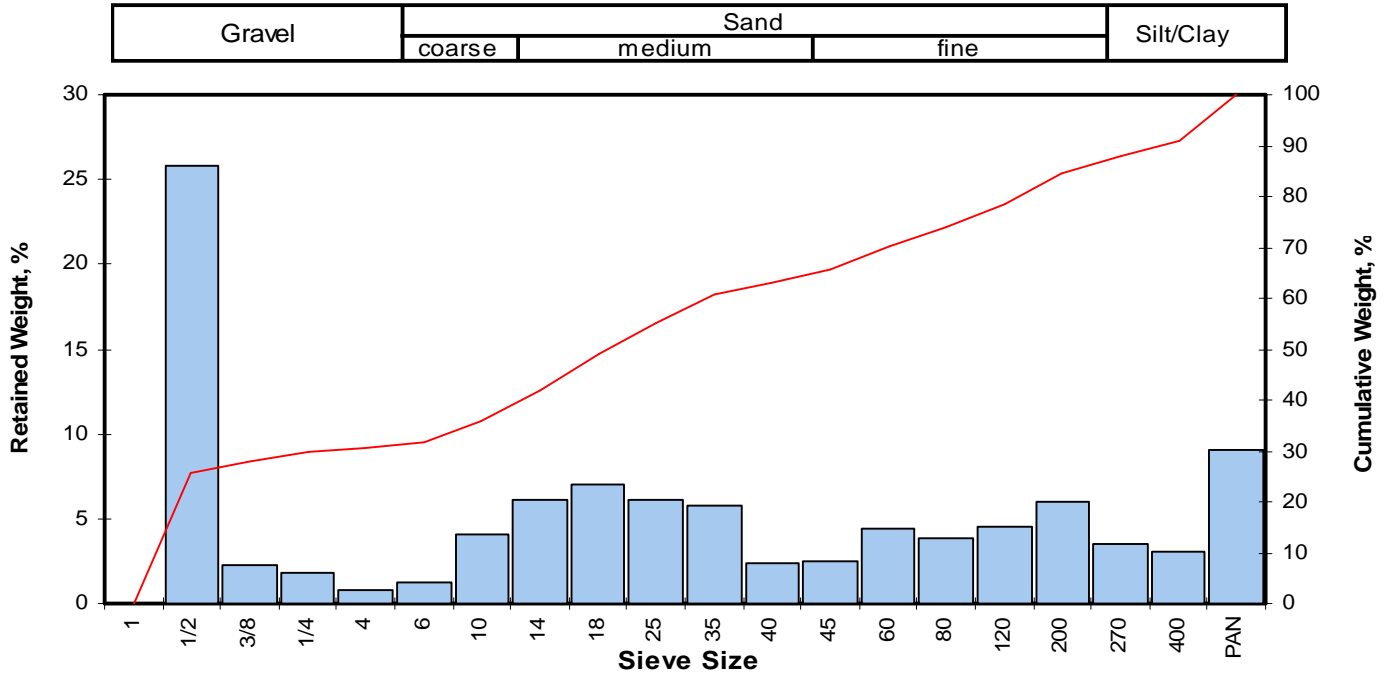
Measure	Trask	Inman	Folk-Ward
Median, phi	-0.51	-0.51	-0.51
Median, in.	0.0563	0.0563	0.0563
Median, mm	1.429	1.429	1.429
Mean, phi	-1.22	0.29	0.02
Mean, in.	0.0917	0.0322	0.0388
Mean, mm	2.330	0.818	0.985
Sorting	5.449	3.102	2.746
Skewness	0.579	0.259	0.262
Kurtosis	0.243	0.272	0.661

Grain Size Description (ASTM-USCS Scale) Coarse sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	23.59
Coarse Sand	10	20.61
Medium Sand	40	18.97
Fine Sand	200	25.58
Silt/Clay	<200	11.25
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: M-190-47.0-47.5
 Depth, ft: 47.1



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	44.40	25.79	25.79
0.3740	9.500	-3.25	3/8	3.93	2.28	28.07
0.2500	6.351	-2.67	1/4	3.07	1.78	29.86
0.1873	4.757	-2.25	4	1.28	0.74	30.60
0.1324	3.364	-1.75	6	2.12	1.23	31.83
0.0787	2.000	-1.00	10	6.95	4.04	35.87
0.0557	1.414	-0.50	14	10.43	6.06	41.93
0.0394	1.000	0.00	18	12.08	7.02	48.94
0.0278	0.707	0.50	25	10.51	6.10	55.05
0.0197	0.500	1.00	35	9.93	5.77	60.82
0.0166	0.420	1.25	40	4.05	2.35	63.17
0.0139	0.354	1.50	45	4.30	2.50	65.67
0.0098	0.250	2.00	60	7.54	4.38	70.05
0.0070	0.177	2.50	80	6.56	3.81	73.86
0.0049	0.125	3.00	120	7.84	4.55	78.41
0.0029	0.074	3.75	200	10.24	5.95	84.36
0.0021	0.053	4.25	270	6.04	3.51	87.87
0.0015	0.037	4.75	400	5.28	3.07	90.93
			PAN	15.61	9.07	100.00
TOTALS				172.16	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.45	0.8606	21.859
10	-4.26	0.7524	19.110
16	-4.02	0.6403	16.264
25	-3.67	0.5027	12.770
40	-0.66	0.0622	1.579
50	0.09	0.0371	0.942
60	0.93	0.0207	0.525
75	2.63	0.0064	0.162
84	3.70	0.0030	0.077
90	4.60	0.0016	0.041
95			

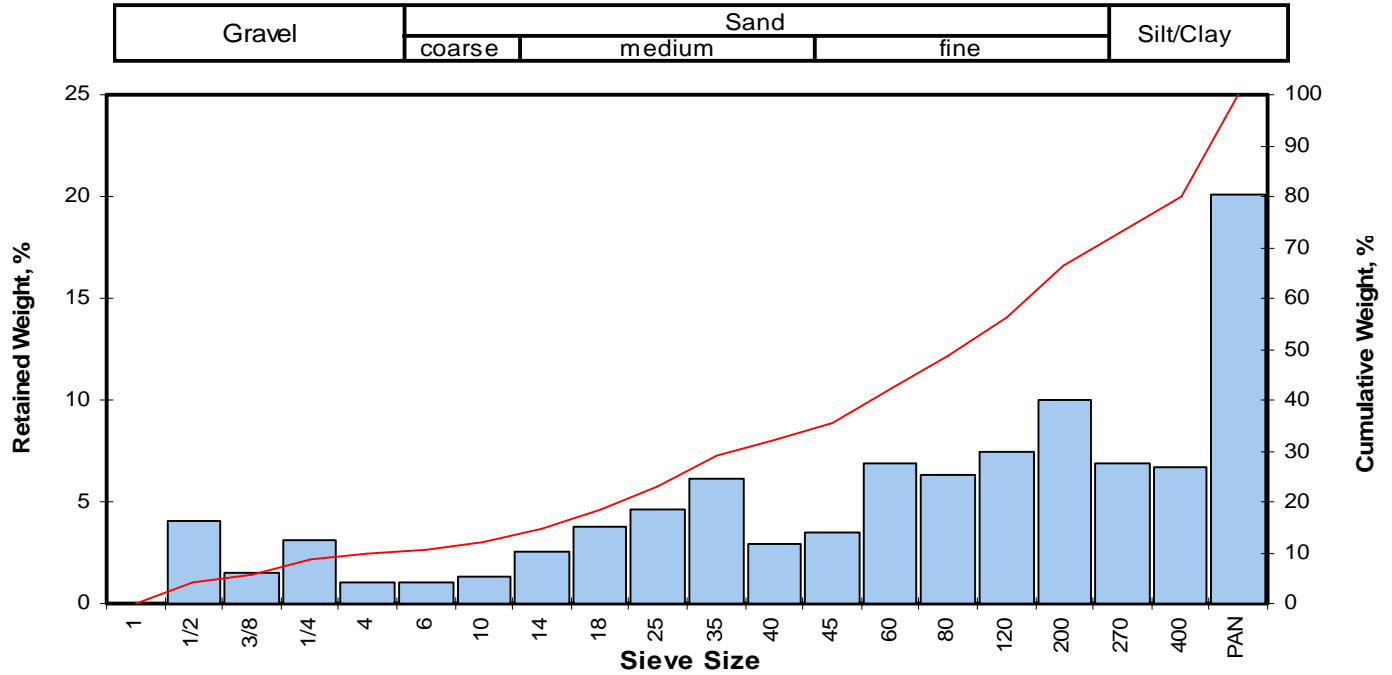
Measure	Trask	Inman	Folk-Ward
Median, phi	0.09	0.09	0.09
Median, in.	0.0371	0.0371	0.0371
Median, mm	0.942	0.942	0.942
Mean, phi	-2.69	-0.16	-0.08
Mean, in.	0.2546	0.0440	0.0415
Mean, mm	6.466	1.117	1.055
Sorting	8.877	3.864	
Skewness	1.527	-0.064	
Kurtosis	0.331		

Grain Size Description (ASTM-USCS Scale) Gravel (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	30.60
Coarse Sand	10	5.27
Medium Sand	40	27.30
Fine Sand	200	21.19
Silt/Clay	<200	15.64
Total		100

Client: Environ
 Project: Nert
 Project No: 21-37300C M01, M02, M03

PTS File No: 45097, 45133, 45165
 Sample ID: M-191-44.0
 Depth, ft: 44.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	3.43	4.02	4.02
0.3740	9.500	-3.25	3/8	1.31	1.53	5.55
0.2500	6.351	-2.67	1/4	2.66	3.11	8.66
0.1873	4.757	-2.25	4	0.86	1.01	9.67
0.1324	3.364	-1.75	6	0.87	1.02	10.69
0.0787	2.000	-1.00	10	1.15	1.35	12.04
0.0557	1.414	-0.50	14	2.21	2.59	14.62
0.0394	1.000	0.00	18	3.22	3.77	18.39
0.0278	0.707	0.50	25	3.96	4.64	23.03
0.0197	0.500	1.00	35	5.20	6.09	29.12
0.0166	0.420	1.25	40	2.47	2.89	32.01
0.0139	0.354	1.50	45	2.99	3.50	35.51
0.0098	0.250	2.00	60	5.92	6.93	42.44
0.0070	0.177	2.50	80	5.39	6.31	48.75
0.0049	0.125	3.00	120	6.39	7.48	56.23
0.0029	0.074	3.75	200	8.55	10.01	66.25
0.0021	0.053	4.25	270	5.92	6.93	73.18
0.0015	0.037	4.75	400	5.71	6.69	79.86
			PAN	17.20	20.14	100.00
TOTALS				85.41	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.39	0.4127	10.483
10	-2.09	0.1674	4.253
16	-0.32	0.0491	1.246
25	0.66	0.0249	0.632
40	1.82	0.0111	0.282
50	2.58	0.0066	0.167
60	3.28	0.0040	0.103
75	4.39	0.0019	0.048
84			
90			
95			

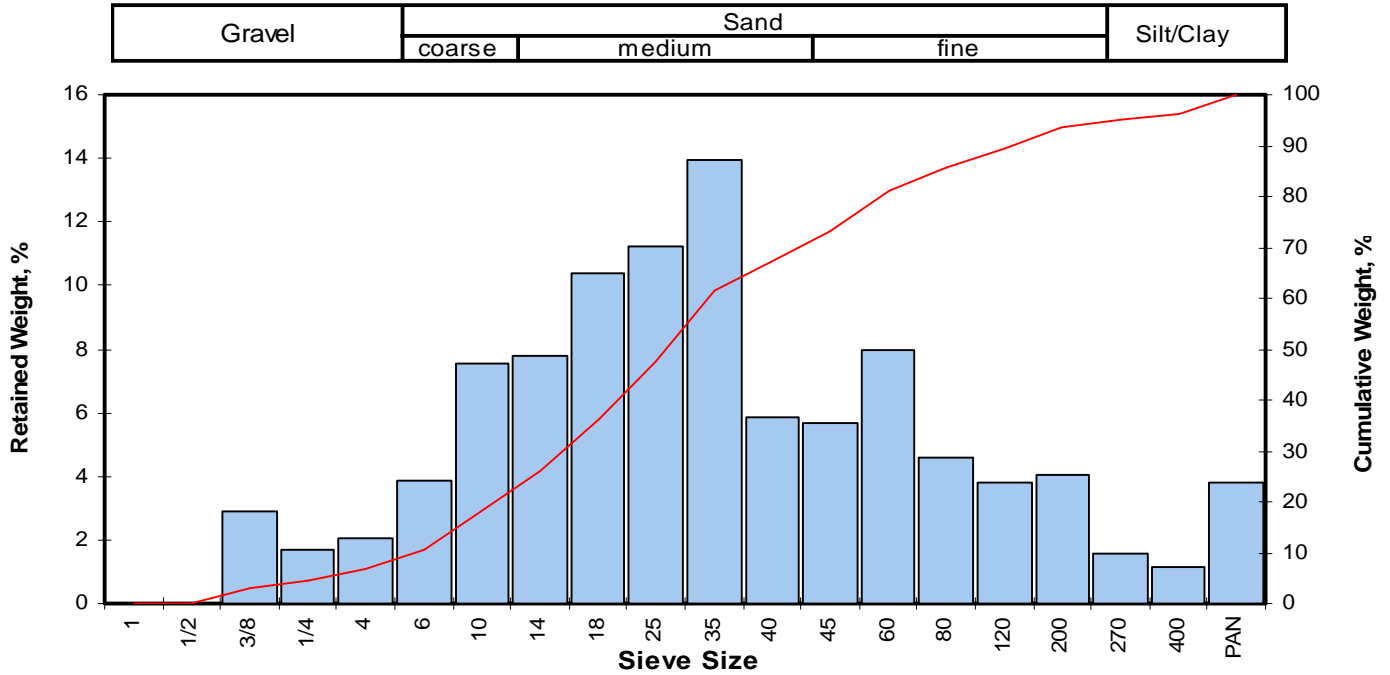
Measure	Trask	Inman	Folk-Ward
Median, phi	2.58	2.58	2.58
Median, in.	0.0066	0.0066	0.0066
Median, mm	0.167	0.167	0.167
Mean, phi	1.56		
Mean, in.	0.0134		
Mean, mm	0.340		
Sorting	3.636		
Skewness	1.042		
Kurtosis			

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	9.67
Coarse Sand	10	2.37
Medium Sand	40	19.97
Fine Sand	200	34.23
Silt/Clay	<200	33.75
Total		100

Client: Environ
 Project: Nert RI
 Project No: 2137300C/M03

PTS File No: 45097, 45133, 45165
 Sample ID: M-186D-133.7-134.0
 Depth, ft: 133.7-134.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	3.89	2.89	2.89
0.2500	6.351	-2.67	1/4	2.29	1.70	4.60
0.1873	4.757	-2.25	4	2.76	2.05	6.65
0.1324	3.364	-1.75	6	5.19	3.86	10.51
0.0787	2.000	-1.00	10	10.14	7.55	18.06
0.0557	1.414	-0.50	14	10.50	7.81	25.87
0.0394	1.000	0.00	18	13.97	10.40	36.27
0.0278	0.707	0.50	25	15.13	11.26	47.53
0.0197	0.500	1.00	35	18.78	13.97	61.50
0.0166	0.420	1.25	40	7.87	5.86	67.36
0.0139	0.354	1.50	45	7.63	5.68	73.03
0.0098	0.250	2.00	60	10.72	7.98	81.01
0.0070	0.177	2.50	80	6.15	4.58	85.59
0.0049	0.125	3.00	120	5.14	3.82	89.41
0.0029	0.074	3.75	200	5.47	4.07	93.48
0.0021	0.053	4.25	270	2.12	1.58	95.06
0.0015	0.037	4.75	400	1.55	1.15	96.21
			PAN	5.09	3.79	100.00
TOTALS				134.39	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.59	0.2363	6.002
10	-1.82	0.1387	3.522
16	-1.20	0.0907	2.305
25	-0.56	0.0579	1.470
40	0.17	0.0351	0.891
50	0.59	0.0262	0.665
60	0.95	0.0204	0.519
75	1.62	0.0128	0.325
84	2.33	0.0078	0.199
90	3.11	0.0046	0.116
95	4.23	0.0021	0.053

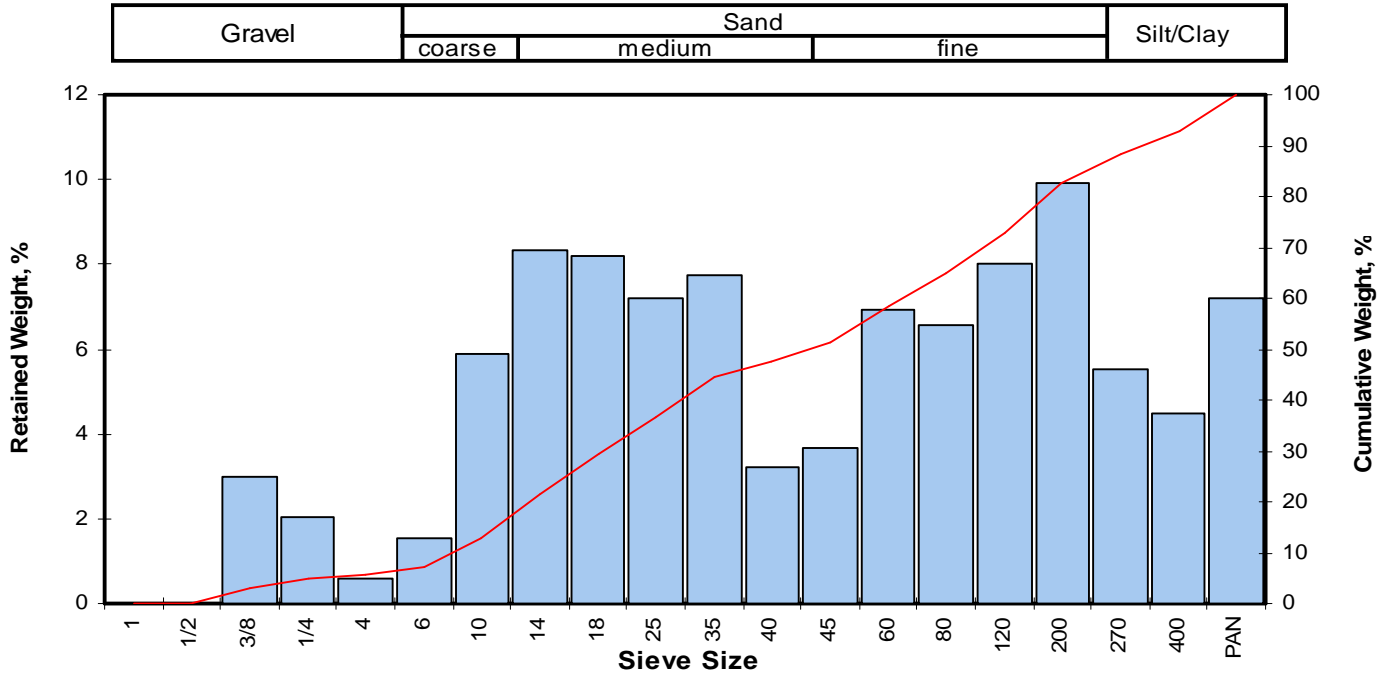
Measure	Trask	Inman	Folk-Ward
Median, phi	0.59	0.59	0.59
Median, in.	0.0262	0.0262	0.0262
Median, mm	0.665	0.665	0.665
Mean, phi	0.16	0.56	0.57
Mean, in.	0.0353	0.0267	0.0265
Mean, mm	0.897	0.678	0.674
Sorting	2.128	1.766	1.916
Skewness	1.039	-0.016	0.027
Kurtosis	0.168	0.930	1.282

Grain Size Description (ASTM-USCS Scale) Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	6.65
Coarse Sand	10	11.41
Medium Sand	40	49.30
Fine Sand	200	26.13
Silt/Clay	<200	6.52
Total		100

Client: Environ
 Project: Nert RI
 Project No: 2137300C/M03

PTS File No: 45097, 45133, 45165
 Sample ID: M-186D-144.0-144.3
 Depth, ft: 144.0-144.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	2.82	2.97	2.97
0.2500	6.351	-2.67	1/4	1.94	2.05	5.02
0.1873	4.757	-2.25	4	0.55	0.58	5.60
0.1324	3.364	-1.75	6	1.45	1.53	7.13
0.0787	2.000	-1.00	10	5.58	5.88	13.01
0.0557	1.414	-0.50	14	7.89	8.32	21.33
0.0394	1.000	0.00	18	7.77	8.19	29.52
0.0278	0.707	0.50	25	6.82	7.19	36.71
0.0197	0.500	1.00	35	7.33	7.73	44.43
0.0166	0.420	1.25	40	3.07	3.24	47.67
0.0139	0.354	1.50	45	3.50	3.69	51.36
0.0098	0.250	2.00	60	6.59	6.95	58.31
0.0070	0.177	2.50	80	6.22	6.56	64.86
0.0049	0.125	3.00	120	7.61	8.02	72.89
0.0029	0.074	3.75	200	9.42	9.93	82.82
0.0021	0.053	4.25	270	5.22	5.50	88.32
0.0015	0.037	4.75	400	4.26	4.49	92.81
			PAN	6.82	7.19	100.00
TOTALS				94.86	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.67	0.2509	6.374
10	-1.38	0.1027	2.609
16	-0.82	0.0695	1.766
25	-0.28	0.0477	1.211
40	0.71	0.0240	0.610
50	1.41	0.0148	0.377
60	2.13	0.0090	0.229
75	3.16	0.0044	0.112
84	3.86	0.0027	0.069
90	4.44	0.0018	0.046
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	1.41	1.41	1.41
Median, in.	0.0148	0.0148	0.0148
Median, mm	0.377	0.377	0.377
Mean, phi	0.60	1.52	1.48
Mean, in.	0.0260	0.0137	0.0141
Mean, mm	0.661	0.349	0.358
Sorting	3.289	2.339	
Skewness	0.977	0.047	
Kurtosis	0.214		

Grain Size Description (ASTM-USCS Scale) Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	5.60
Coarse Sand	10	7.41
Medium Sand	40	34.66
Fine Sand	200	35.15
Silt/Clay	<200	17.18
Total		100

PTS File No: 45097, 45133, 45165
 Client: Environ
 Report Date: 04/28/15

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: Nert
 Project No: 21-37300C M01, M02, M03

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PC-134D-52.1'-52.5'	52.1	20150408	1230	SOIL	330	3.30E-04
PC-134D-84.5'-84.7'	84.6	20150408	1230	SOIL	3900	3.90E-03
PC-137D-62.3'-62.5'	62.4	20150408	1230	SOIL	2550	2.55E-03
PC-137D-89.5'-89.7'	89.6	20150408	1230	SOIL	4600	4.60E-03
PC-153-17.0	17.0	20150408	1230	SOIL	<100	<1.00E-04
PC-153-36.0	36.3	20150408	1230	SOIL	500	5.00E-04
PC-159-13.5'-13.7'	13.5-13.7	20150408	1230	SOIL	2100	2.10E-03
PC-159-18.3'-18.6'	18.3-18.6	20150408	1230	SOIL	<100	<1.00E-04
PC-159-24.0'-24.3'	24.0-24.3	20150408	1230	SOIL	<100	<1.00E-04
RISB-09-31.0	31.0	20150408	1230	SOIL	160	1.60E-04
RISB-12-24.0	24.0	20150408	1230	SOIL	420	4.20E-04
RISB-23-23.0	23.0	20150408	1230	SOIL	280	2.80E-04
M-189-30.0-31.0	31.3	20150408	1230	SOIL	210	2.10E-04
M-190-34.3-34.65	34.4	20150408	1230	SOIL	270	2.70E-04
M-190-47.0-47.5	47.1	20150408	1230	SOIL	130	1.30E-04
M-191-44.0	44.3	20150408	1230	SOIL	330	3.30E-04
M-192-35.0	35.3	20150408	1230	SOIL	1100	1.10E-03
M-192-40.0	40.3	20150408	1230	SOIL	510	5.10E-04
Blank	N/A	20150408	1230	BLANK	ND	ND
SRM D086-542	N/A	20150408	1230	SRM	4820	4.82E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D086-542	104	75-125	4620	3465	5775

ND = Not Detected

PTS File No: 45097, 45133, 45165
 Client: Environ
 Report Date: 04/28/15

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: Nert
 Project No: 21-37300C M01, M02, M03

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
M-161D-105.6-106.0	105.7	20150402	1230	SOIL	700	7.00E-04
M-161D-149.5-149.75	149.6	20150402	1230	SOIL	1400	1.40E-03
M-186D-166.0	165.6	20150402	1230	SOIL	650	6.50E-04
M-186D-144.0-144.3	144.0-144.3	20150402	1230	SOIL	710	7.10E-04

Blank	N/A	20150402	1230	BLANK	ND	ND
SRM D086-542	N/A	20150402	1230	SRM	5010	5.01E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg Lower	Upper
SRM D086-542	108	75-125	4620	3465	5775

ND = Not Detected

PROJECT NAME / FACILITY ID: NERT FIELD PERSON: R. Russell

PROJECT NUMBER: 21-37300C MO1, MO3 DATE: 2/12/2015 PROJECT MANAGER: R. Russell

PROJECT LOCATION: NERT, HENDERSON, NV LABORATORY: PTS

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: <u>Ross Russell</u>	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
	2015									
SIGNATURE: <u>Ross Russell</u>										
SAMPLE I.D. NUMBER										
✓ PC-134D - 52.1' - 52.5'		2/11/2015				1			X	Please contact
✓ PC-134D - 63.4' - 63.65'						1			X	Ross Russell ☺
✓ PC-134D - 84.5' - 84.7'						1			X	570-420-2520 if
✓ PC-134D - 89.3' - 89.45'						1			X	there are questions
✓ PC-137D - 60' - 60.2'						1			X	
✓ PC-137D - 62.3' - 62.5'						1			X	
✓ PC-137D - 67.0' - 67.2'						1			X	
✓ PC-137D - 89.5' - 89.7'		2/11/2015				1			X	
✓ PC-159 - 11.0' - 11.2'		2/12/2015				1			X	
✓ PC-159 - 13.5' - 13.7'		2/12/2015				1			X	
TOTAL			X	X	X	X	10	X	X	10

RELINQUISHED BY: <u>[Signature]</u>	TIME/DATE: <u>1730 2/12/15</u>	RECEIVED BY: <u>[Signature]</u>	TIME/DATE: <u>2/17/15</u>	TURNAROUND TIME (CIRCLE ONE)	SAMEDAY	72 HOURS
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	(CIRCLE ONE)	24 HOURS	5 DAYS
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	(CIRCLE ONE)	48 HOURS	NORMAL
SAMPLE INTEGRITY				IF SEALED, SEAL INTEGRITY		
INTACT: <u>(Y)</u> N Temp <u>75.3 °F</u>				INTACT: <u>(Y)</u> N		

H = HOLD; N = NONE; U = UNKNOWN; NO = NONE; O = OTHER

ENVIRON

6001 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

CHAIN-of-CUSTODY

45097

02243

PAGE 2 of 3

PROJECT NAME / FACILITY ID: NERT FIELD PERSON: R. Russell

PROJECT NUMBER: 21-37300C MO1, MO2 DATE: 2/12/2015 PROJECT MANAGER: R. Russell

PROJECT LOCATION: NERT, HENDERSEN, NV LABORATORY: PTS

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: <u>Ross Russell</u>	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
	2015									
SIGNATURE: <u>Ross Russell</u>										
PC-159 - 16.0' - 16.3'		2/12/2015				1			X	Contact: Ross Russell
PC-159 - 18.3' - 18.6'						1			X	510-420-2520
PC-159 - 21.0' - 21.3'						1			X	
PC-159 - 24.0' - 24.3'		2/12/2015				1			X	
PC-153 - 17.0		12/15/2014				1			X	
PC-153 - 36.0		12/15/2014				2			X	
RISB-09 - 31.0		12/12/2014				1			X	
RISB-12 - 24.0		12/16/2014				1			X	
RISB-23 - 23.0		10/29/2014				1			X	
M-189 - 30.0 - 31.0		12/21/2014				2			X	
TOTAL						12			10	

RELINQUISHED BY: <u>[Signature]</u>	TIME/DATE: <u>1730 2/12/15</u>	RECEIVED BY: <u>[Signature]</u>	TIME/DATE: <u>2/17/15 13:15</u>	TURNAROUND TIME (CIRCLE ONE)	SAMEDAY	72 HOURS
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	24 HOURS	5 DAYS	
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	48 HOURS	NORMAL	
				SAMPLE INTEGRITY	IF SEALED, SEAL INTEGRITY	
				INTACT: Y <input checked="" type="radio"/> N <input type="radio"/> Temp <u>75.3 F</u>	INTACT: <input checked="" type="radio"/> Y <input type="radio"/> N	

H = HCL; N = UNKNOWN; U = NONE; NO = NONE; 0 = OTHER

PROJECT NAME / FACILITY ID: NERT FIELD PERSON: R. Russell
 PROJECT NUMBER: 21-37300C MO1, MO3 DATE: 2/12/2015 PROJECT MANAGER: R. Russell
 PROJECT LOCATION: NERT, HENDERSON, NV LABORATORY: PTS
 IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: <u>R. Russell</u>	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/ UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
	2015									
SIGNATURE:										
SAMPLE I.D. NUMBER										
✓ M-190-38.0-38.3		2/12/2015				1			XXXX	Contact: Ross Russell 510-420-2520.
✓ M-190-34.3-34.65		2/12/2015				1			XXXX	
✓ M-190-47.0-47.5		2/12/2015				1			XXXX	
✓ M-191-44.0		12/1/2014				2			XXXX	
✓ M-192-35.0		12/3/2014				2			XXXX	
✓ M-192-40.0		12/5/2014				2			XXXX	
TOTAL						9			XXXX	6

RELINQUISHED BY: <u>TR</u>	TIME/DATE: 1730 2/12/15	RECEIVED BY: <u>RL</u>	TIME/DATE: 2/12/15 13:15	TURNAROUND TIME (CIRCLE ONE)	SAMEDAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS NORMAL
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	SAMPLE INTEGRITY	IF SEALED, SEAL INTEGRITY	
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	INTACT: (Y) N Temp <u>75.3 F</u>	INTACT: (Y) N	

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

45133

6001 Shellmound Street, Suite 700
 Emeryville, California 94608
 (510) 655-7400
 (510) 655-9517 (fax)

PROJECT NAME / FACILITY ID: NERT R1 FIELD PERSON: T. WINGER

PROJECT NUMBER: 2137300C / M03 DATE: 3/5/2015 PROJECT MANAGER: R. RUSSELL

PROJECT LOCATION: HENDERSON, NV LABORATORY: _____

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: <u>RR</u>	YEAR <u>2015</u>																					
SIGNATURE: <u>[Signature]</u>	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED													COMMENTS	
M-161D-105.6-106.0	3/5	-	-	S	1	-	-	XX														HOLD SAMPLES
M-161D-114.7-115.0	3/5	-	-	S	1	-	-	XX														FOR ANALYTICAL
M-161D-126.5-126.8	3/5	-	-	S	1	-	-	XX														REQUEST
M-161D-149.5-149.75	3/5	-	-	S	1	-	-	XX														
M-162D-123.7-124.0	3/5	-	-	S	1	-	-	XX														
M-186D-166.0 ^{TPW}	12/10/ 2014	-	-	S	2	-	-	XX														
TOTAL	XX	XX	XX	XX		XX	XX															

RELINQUISHED BY: <u>[Signature]</u> TIME/DATE: <u>3/5/2015 1700</u>	RECEIVED BY: <u>[Signature]</u> TIME/DATE: <u>3/6/15 1050</u>	TURNAROUND TIME (CIRCLE ONE) SAMEDAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY: _____ TIME/DATE: _____	RECEIVED BY: _____ TIME/DATE: _____	
RELINQUISHED BY: _____ TIME/DATE: _____	RECEIVED BY: _____ TIME/DATE: _____	SAMPLE INTEGRITY: _____ IF SEALED, SEAL INTEGRITY: _____ INTACT: Y N Temp _____ INTACT: Y N

ENVIRON

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(510) 655-9517 (fax)

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45165

02240

PAGE 1 of 1

PROJECT NAME / FACILITY ID: NERT R1 FIELD PERSON: Tommy Winger

PROJECT NUMBER: 2137300C / M03 FM01 DATE: 3/19/2015 PROJECT MANAGER: ROSS RUSSELL

PROJECT LOCATION: HENDERSON, NV LABORATORY: PTS SANTA FE SPRINGS

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: T. WINGER	YEAR: 2015																						
SIGNATURE:	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED															
SAMPLE I.D. NUMBER																							
M-186D-19.0		3/18	0900	19'	S	1	/	/															
WAIT FOR DESIRED ANALYSES FROM ROSS RUSSELL																							
TOTAL																							
X	X	X	X	X	X	X	X	X															

RELINQUISHED BY:	TIME/DATE: 3/19/2015 1000	RECEIVED BY:	TIME/DATE: 3/20/15 10:30	TURNAROUND TIME (CIRCLE ONE):	SAMEDAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS NORMAL
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	SAMPLE INTEGRITY	IF SEALED, SEAL INTEGRITY	
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:	INTACT: <input checked="" type="radio"/> N Temp: 71.4	INTACT: Y N	

H = HCl; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER



8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

May 17, 2017

Ross Russell, PG
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 47115
Physical Properties Data
NERT; 2141400C, MO3

Dear Mr. Russell:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your NERT; 2141400C, MO3 project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,
PTS Laboratories, Inc.

Michael Mark Brady, P.G.
Laboratory Director

Encl.

Project Name: NERT
 Project Number: 2141400C, MO3

PTS File No: 47115
 Client: Ramboll Environ

TEST PROGRAM - 20170302

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
Date Received: 20170302										
PT-M221-28.7-29.0	28.7-29.0	N/A	X	X					X	Ziploc bag
PT-M221-75.0-75.3	75.0-75.3	N/A	X	X					X	Ziploc bag
PT-M222-9.0-9.3	9.0-9.3	N/A	X	X(1)					X	Ziploc bag
PT-M222-16.7-17.0	16.7-17.0	N/A	X	X(1)					X	Ziploc bag
PT-M222-42.5-42.8	42.5-42.8	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M222-57.6-57.9	57.6-57.9	N/A	X	X					X	Ziploc bag
PT-M222-65.0-65.4	65.0-65.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M222-77.0-77.3	77.0-77.3	N/A	X	X					X	Ziploc bag
PT-M222-80.2-80.6	80.2-80.6	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M222-105.0-105.4	105.0-105.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M72D-19.3-19.6	19.3-19.6	N/A	X	X(1)					X	Ziploc bag
PT-M72D-34.0-34.3	34.0-34.3	N/A	X	X					X	Ziploc bag
PT-M72D-49.5-49.8	49.5-49.8	N/A	X	X					X	Ziploc bag
PT-M72D-64.2-64.5	64.2-64.5	N/A	X	X					X	Ziploc bag
PT-M72D-65.8-66.1	65.8-66.1	N/A	X	X					X	Ziploc bag
PT-M66D-21.0-21.3	21.0-21.3	N/A	X	X(1)					X	Ziploc bag
PT-M66D-38.5-38.8	38.5-38.8	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M66D-48.5-48.8	48.5-48.8	N/A	X	X					X	Ziploc bag
PT-M66D-50.7-51.0	50.7-51.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M66D-64.0-64.3	64.0-64.3	N/A	X	X					X	Ziploc bag
PT-M140D-16.0-16.3	16.0-16.3	N/A	X	X(1)					X	Ziploc bag
PT-M140D-30.7-31.0	30.7-31.0	N/A	X	X					X	Ziploc bag
PT-M140D-36.0-36.3	36.0-36.3	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M140D-50.0-50.4	50.0-50.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M140D-64.2-64.5	64.2-64.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M22D-25.2-25.5	25.2-25.5	N/A	X	X(1)					X	Ziploc bag
PT-M22D-33.0-33.3	33.0-33.3	N/A	X	X(1)					X	Ziploc bag
PT-M5D-19.0-19.3	19.0-19.3	N/A	X	X(1)					X	Ziploc bag
PT-M5D-41.5-41.8	41.5-41.8	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M5D-64.0-64.3	64.0-64.3	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M5D-69.7-70.0	69.7-70.0	N/A	X	X					X	Ziploc bag
PT-RIDB8-33.4-33.7	33.4-33.7	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB8-36.3-36.6	36.3-36.6	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB8-64.5-64.8	64.5-64.8	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB8-76.1-76.4	76.1-76.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB8-82.5-82.8	82.5-82.8	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB9-33.5-33.8	33.5-33.8	N/A	X	X	X	X	X		X	Foil wrapped core

Project Name: NERT
 Project Number: 2141400C, MO3

PTS File No: 47115
 Client: Ramboll Environ

TEST PROGRAM - 20170302

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	Hydraulic Conductivity	TOC/foc	Comments
			ASTM D4464/422	ASTM D4318	D2216	API RP40	ASTM D425	API RP40/EPA 9100	Walkley-Black	
Plugs:			Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-RIDB9-64.0-64.3	64.0-64.3	N/A	X	X	X	X	X		X	Ziploc bag
PT-RIDB9-65.0-65.3	65.0-65.3	N/A	X	X					X	Foil wrapped core
PT-RIDB9-74.2-74.5	74.2-74.5	N/A	X	X					X	Ziploc bag
PT-RIDB9-82.1-82.4	82.1-82.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB10-36.0-36.3	36.0-36.3	N/A	X	X					X	Ziploc bag
PT-RIDB10-61.5-61.8	61.5-61.8	N/A	X	X					X	Ziploc bag
PT-RIDB10-76.5-77.0	76.5-77.0	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB10-81.5-82.0	81.5-82.0	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB13-25.5-26.0	25.5-26.0	N/A	X	X(1)					X	Ziploc bag
PT-RIDB13-63.0-63.5	63.0-63.5	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB13-78.2-78.7	78.2-78.7	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB13-81.0-81.4	81.0-81.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB14-16.0-16.5	16.0-16.5	N/A	X	X(1)					X	Ziploc bag
PT-RIDB14-73.6-74.1	73.6-74.1	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB14-81.0-81.5	81.0-81.5	N/A	X	X					X	Ziploc bag
PT-M201-29.0-29.5	29.0-29.5	N/A	X	X					X	Ziploc bag
PT-M201-43.0-43.5	43.0-43.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M201-57.0-57.5	57.0-57.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M201-64.0-64.5	64.0-64.5	N/A	X	X					X	Ziploc bag
PT-M202-14.0-14.5	14.0-14.5	N/A	X	X(1)					X	Ziploc bag
TOTALS:		0.00	57	57	27	27	27	5	57	57

Laboratory Test Program Notes

Contaminant identification: perchlorate, metals, VOCs

Standard TAT for basic analysis is 10-15 business days.

Grain Size Analysis: Combined laser/sieve method; includes tabular data, graphics and statistical sorting in Excel format.

Effective Porosity: Includes Total Porosity.

USCS Soil Classification by ASTM D2487 requires Atterberg Limits and Grain Size Analysis (included as part of Test Program).

Note (1): Laboratory to verify Atterberg Limits are required to classify fine fraction per Ramboll Environ Physical Testing Requests.

To: PTS Laboratories, Inc.
 8100 Secura Way, , Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST - Borings M-221, M-222,
 RIDB-8, RIDB-9

Date: March 1, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
M-221	28.7 - 29.0	PT-M221-28.7-29.0	Ziplock bag	X	X							X
M-221	75.0 - 75.3	PT-M221-75.0-75.3	Ziplock bag	X	X							X
M-222	9.0 - 9.3	PT-M222-9.0-9.3	Ziplock bag	X	X (1)							X
M-222	16.7 - 17.0	PT-M222-16.7-17.0	Ziplock bag	X	X (1)							X
M-222	42.5 - 42.8	PT-M222-42.5-42.8	wrapped core	X	X	X	X	X				X
M-222	57.6 - 57.9	PT-M222-57.6-57.9	Ziplock bag	X	X							X
M-222	65.0 - 65.4	PT-M222-65.0-65.4	wrapped core	X	X	X	X	X				X
M-222	77.0 - 77.3	PT-M222-77.0-77.3	Ziplock bag	X	X							X
M-222	80.2 - 80.6	PT-M222-80.2-80.6	wrapped core	X	X	X	X	X				X
M-222	105.0 - 105.4	PT-M222-105.0-105.4	wrapped core	X	X	X	X	X				X
RIDB-8	33.4 - 33.7	PT-RIDB8-33.4-33.7	wrapped core	X	X	X	X	X				X
RIDB-8	36.3 - 36.6	PT-RIDB8-36.3-36.6	wrapped core	X	X	X	X	X				X
RIDB-8	64.5 - 64.8	PT-RIDB8-64.5-64.8	wrapped core	X	X	X	X	X				X
RIDB-8	76.1 - 76.4	PT-RIDB8-76.1-76.4	wrapped core	X	X	X	X	X				X
RIDB-8	82.5 - 82.8	PT-RIDB8-82.5-82.8	wrapped core	X	X	X	X	X				X
RIDB-9	33.5 - 33.8	PT-RIDB9-33.5-33.8	wrapped core	X	X	X	X	X				X
RIDB-9	64.0 - 64.3	PT-RIDB9-64.0-64.3	wrapped core	X	X	X	X	X				X
RIDB-9	65.0 - 65.3	PT-RIDB9-65.0-65.3	Ziplock bag	X	X							X
RIDB-9	74.2 - 74.5	PT-RIDB9-74.2-74.5	Ziplock bag	X	X							X
RIDB-9	82.1 - 82.4	PT-RIDB9-82.1-82.4	wrapped core	X	X	X	X	X				X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs)

To: PTS Laboratories, Inc.
 8100 Secura Way, , Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST - Borings M-5D, M-22D,
 M-66D, M-72D, M-140D

Date: March 1, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
M-5D	19.0 - 19.3	PT-M5D-19.0-19.3	Ziplock bag	X	X (1)							X
M-5D	41.5 - 41.8	PT-M5D-41.5-41.8	wrapped core	X	X	X	X	X				X
M-5D	64.0 - 64.3	PT-M5D-64.0-64.3	wrapped core	X	X	X	X	X				X
M-5D	69.7 - 70.0	PT-M5D-69.7-70.0	Ziplock bag	X	X							X
M-22D	25.2 - 25.5	PT-M22D-25.2-25.5	Ziplock bag	X	X (1)							X
M-22D	33.0 - 33.3	PT-M22D-33.0-33.3	Ziplock bag	X	X (1)							X
M-66D	21.0 - 21.3	PT-M66D-21.0-21.3	Ziplock bag	X	X (1)							X
M-66D	38.5 - 38.8	PT-M66D-38.5-38.8	wrapped core	X	X	X	X	X				X
M-66D	48.5 - 48.8	PT-M66D-48.5-48.8	Ziplock bag	X	X							X
M-66D	50.7 - 51.0	PT-M66D-50.7-51.0	wrapped core	X	X	X	X	X				X
M-66D	64.0 - 64.3	PT-M66D-64.0-64.3	Ziplock bag	X	X							X
M-72D	19.3 - 19.6	PT-M72D-19.3-19.6	Ziplock bag	X	X (1)							X
M-72D	34.0 - 34.3	PT-M72D-34.0-34.3	Ziplock bag	X	X							X
M-72D	49.5 - 49.8	PT-M72D-49.5-49.8	Ziplock bag	X	X							X
M-72D	64.2 - 64.5	PT-M72D-64.2-64.5	Ziplock bag	X	X							X
M-72D	65.8 - 66.1	PT-M72D-65.8-66.1	Ziplock bag	X	X							X
M-140D	16.0 - 16.3	PT-M140D-16.0-16.3	Ziplock bag	X	X (1)							X
M-140D	30.7 - 31.0	PT-M140D-30.7-31.0	Ziplock bag	X	X							X
M-140D	36.0 - 36.3	PT-M140D-36.0-36.3	wrapped core	X	X	X	X	X				X
M-140D	50.0 - 50.4	PT-M140D-50.0-50.3	wrapped core	X	X	X	X	X				X
M-140D	64.2 - 64.5	PT-M140D-64.2-64.5	wrapped core	X	X	X	X	X				X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).
- (3) Positive field PID readings were observed in soil core samples from boring M-5D.

To: PTS Laboratories, Inc.
 8100 Secura Way, , Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

**PHYSICAL TESTING REQUEST - Borings RIDB-10,
 RIDB-13, RIDB-14, M-201, M-202**

Date: March 1, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RIDB-10	36.0 - 36.3	PT-RIDB10-36.0-36.3	Ziplock bag	X	X							X
RIDB-10	61.5 - 61.8	PT-RIDB10-61.5-61.8	Ziplock bag	X	X							X
RIDB-10	76.5 - 77.0	PT-RIDB10-76.5-77.0	wrapped core	X	X	X	X	X	X	30.5	46	X
RIDB-10	81.5 - 82.0	PT-RIDB10-81.5-82.0	wrapped core	X	X	X	X	X	X	30.5	51	X
RIDB-13	25.5 - 26.0	PT-RIDB13-25.5-26.0	Ziplock bag	X	X (1)							X
RIDB-13	63.0 - 63.5	PT-RIDB13-63.0-63.5	wrapped core	X	X	X	X	X	X	32	31	X
RIDB-13	78.2 - 78.7	PT-RIDB13-78.2-78.7	wrapped core	X	X	X	X	X	X	32	46	X
RIDB-13	81.0 - 81.4	PT-RIDB13-81.0-81.4	wrapped core	X	X	X	X	X				X
RIDB-14	16.0 - 16.5	PT-RIDB14-16.0-16.5	Ziplock bag	X	X (1)							X
RIDB-14	73.6 - 74.1	PT-RIDB14-73.6-74.1	wrapped core	X	X	X	X	X	X	34	40	X
RIDB-14	81.0 - 81.5	PT-RIDB14-81.0-81.5	Ziplock bag	X	X							X
M-201	29.0 - 29.5	PT-M201-29.0-29.5	Ziplock bag	X	X							X
M-201	43.0 - 43.5	PT-M201-43.0-43.5	wrapped core	X	X	X	X	X				X
M-201	57.0 - 57.5	PT-M201-57.0-57.5	wrapped core	X	X	X	X	X				X
M-201	64.0 - 64.5	PT-M201-64.0-64.5	Ziplock bag	X	X							X
M-202	14.0 - 14.5	PT-M202-14.0-14.5	Ziplock bag	X	X (1)							X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs)
- (3) Positive field PID readings were observed in soil core samples from borings M-201 and M-202.

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS: ANALYSIS DATE	API RP 40 /	API RP40	Mod. ASTM D425	Mod. ASTM D425
				ASTM D2216	DENSITY BULK, g/cc	TOTAL POROSITY (2), %Vb	EFFECTIVE POROSITY, %Vb
PT-M222-42.5-42.8	42.6	V	20170324	60.1	0.94	59.6	18.1
PT-M222-65.0-65.4	65.1	V	20170324	77.4	0.79	68.1	18.9
PT-M222-80.2-80.6	80.3	V	20170324	57.0	0.98	61.2	10.2
PT-M222-105.0-105.4	105.3	V	20170324	40.8	1.14	55.7	7.9
PT-M66D-38.5-38.8	38.6	V	20170324	54.3	0.99	61.9	19.1
PT-M66D-50.7-51.0	50.8	V	20170324	48.2	1.09	59.6	13.5
PT-M140D-36.0-36.3	36.1	V	20170324	73.1	0.82	68.7	19.2
PT-M140D-50.0-50.4	50.1	V	20170324	80.4	0.73	67.9	23.0
PT-M140D-64.2-64.5	64.3	V	20170323	74.8	0.83	68.4	10.8
PT-M5D-41.5-41.8	41.6	V	20170323	74.4	0.80	72.2	18.9
PT-M5D-64.0-64.3	64.1	V	20170323	51.1	1.05	60.4	14.1
PT-RIDB8-33.4-33.7	33.5	V	20170323	25.0	1.37	45.8	13.4
PT-RIDB8-36.3-36.6	36.4	V	20170323	54.7	1.01	60.5	15.5
PT-RIDB8-64.5-64.8	64.6	V	20170323	39.2	1.13	59.5	23.5
PT-RIDB8-76.1-76.4	76.2	V	20170323	50.8	1.07	62.5	4.8
PT-RIDB8-82.5-82.8	82.6	V	20170323	32.6	1.25	52.7	17.2
PT-RIDB9-33.5-33.8	33.6	V	20170406	55.4	1.02	61.1	14.9
PT-RIDB9-64.0-64.3	64.0-64.3	R	20170406	46.6	1.04	55.5	17.7
PT-RIDB9-82.1-82.4	82.2	V	20170406	53.0	1.01	62.0	8.3
PT-RIDB10-76.5-77.0	76.6	V	20170406	51.5	1.04	58.4	9.3
PT-RIDB10-81.5-82.0	81.9	V	20170406	32.6	1.35	50.2	10.4
PT-RIDB13-63.0-63.5	63.1	V	20170406	45.5	1.11	56.4	7.0
PT-RIDB13-78.2-78.7	78.3	V	20170406	29.9	1.41	55.5	8.7
PT-RIDB13-81.0-81.4	81.1	V	20170406	28.6	1.44	47.9	8.6
PT-RIDB14-73.6-74.1	73.7	V	20170406	52.9	1.02	63.6	7.2
PT-M201-43.0-43.5	43.1	V	20170406	81.8	0.73	68.2	21.5
PT-M201-57.0-57.5	57.1	V	20170406	52.3	1.07	61.6	17.2

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Total Porosity = all interconnected pore channels.
 Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY

(Methodology: API RP 40; EPA 9100)

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	CONFINING STRESS, psi	EFFECTIVE PERMEABILITY TO WATER (2,3), millidarcy	HYDRAULIC (3) CONDUCTIVITY, cm/s	INTRINSIC PERMEABILITY TO WATER (3), cm ²
PT-RIDB10-76.5-77.0	76.6	V	20170411	44	0.23	2.31E-07	2.26E-12
PT-RIDB10-81.5-82.0	81.9	V	20170411	46	0.16	1.59E-07	1.55E-12
PT-RIDB13-63.0-63.5	63.1	V	20170413	39	0.05	5.30E-08	5.15E-13
PT-RIDB13-78.2-78.7	78.3	V	20170413	43	0.25	2.48E-07	2.42E-12
PT-RIDB14-73.6-74.1	73.7	V	20170413	44	0.15	1.55E-07	1.50E-12

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Effective (Native) = With as-received pore fluids in place.
 (3) Permeability to water and hydraulic conductivity measured at saturated conditions.
 Water = filtered Laboratory Fresh (tap) or Site water.

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	METHODS:			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			ASTM D4318				
			ATTERBERG LIMITS (1)				
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
PT-M221-28.7-29.0	28.7-29.0	20170317	59.5	44.7	14.8	MH	SM: Silty sand
PT-M221-75.0-75.3	75.0-75.3	20170317	23.3	NON-PLASTIC		NP	SP-SM: Poorly graded sand with silt and gravel
PT-M222-9.0-9.3	9.0-9.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel
PT-M222-16.7-17.0	16.7-17.0	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SW-SM: Well-graded sand with silt and gravel
PT-M222-42.5-42.8	42.6	20170317	58.4	48.7	9.7	MH	MH: Sandy elastic silt with gravel
PT-M222-57.6-57.9	57.6-57.9	20170317	21.5	NON-PLASTIC		NP	GM: Silty gravel with sand
PT-M222-65.0-65.4	65.1	20170317	98.5	49.8	48.7	MH	MH: Sandy elastic silt
PT-M222-77.0-77.3	77.0-77.3	20170317	18.4	NON-PLASTIC		NP	SM: Silty sand with gravel
PT-M222-80.2-80.6	80.3	20170317	98.7	25.5	73.2	CH	CH: Fat clay
PT-M222-105.0-105.4	105.3	20170317	79.6	25.6	54.0	CH	CH: Fat clay
PT-M72D-19.3-19.6	19.3-19.6	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SW-SM: Well-graded sand with silt and gravel
PT-M72D-34.0-34.3	34.0-34.3	20170320	44.0	33.6	10.4	ML	ML: Sandy silt
PT-M72D-49.5-49.8	49.5-49.8	20170320	69.3	39.5	29.8	MH	MH: Sandy elastic silt
PT-M72D-64.2-64.5	64.2-64.5	20170320	40.9	26.0	14.9	ML	ML: Sandy silt
PT-M72D-65.8-66.1	65.8-66.1	20170320	49.2	33.0	16.2	ML	ML: Sandy silt
PT-M66D-21.0-21.3	21.0-21.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SW-SM: Well-graded sand with silt and gravel
PT-M66D-38.5-38.8	38.6	20170320	66.0	41.2	24.8	MH	MH: Sandy elastic silt
PT-M66D-48.5-48.8	48.5-48.8	20170320	68.5	44.5	24.0	MH	MH: Sandy elastic silt
PT-M66D-50.7-51.0	50.8	20170320	61.5	33.7	27.8	MH	MH: Elastic silt
PT-M66D-64.0-64.3	64.0-64.3	20170320	32.6	24.7	7.9	ML	ML: Sandy silt
PT-M140D-16.0-16.3	16.0-16.3	20170516	40.0	NON-PLASTIC		NP	ML: Sandy silt
PT-M140D-30.7-31.0	30.7-31.0	20170320	64.5	49.1	15.4	MH	MH: Sandy elastic silt
PT-M140D-36.0-36.3	36.1	20170321	90.1	49.6	40.5	MH	MH: Elastic silt with sand
PT-M140D-50.0-50.4	50.1	20170321	107.8	49.1	58.7	MH	MH: Sandy elastic silt
PT-M140D-64.2-64.5	64.3	20170321	117.7	41.7	76.0	CH	CH: Fat clay

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples and coarse grained samples where ABL was not requested.

USCS: Unified Soil Classification System

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
PT-M22D-25.2-25.5	25.2-25.5	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				GP-GM: Poorly graded gravel with silt and sand
PT-M22D-33.0-33.3	33.0-33.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				GP-GM: Poorly graded gravel with silt and sand
PT-M5D-19.0-19.3	19.0-19.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SW-SM: Well-graded sand with silt and gravel
PT-M5D-41.5-41.8	41.6	20170321	94.4	56.0	38.4	MH	MH: Elastic silt with sand
PT-M5D-64.0-64.3	64.1	20170321	67.3	35.8	31.5	MH	MH: Elastic silt with sand
PT-M5D-69.7-70.0	69.7-70.0	20170321	143.0	93.4	49.6	MH	SM: Silty sand
PT-RIDB8-33.4-33.7	33.5	20170322	35.0	23.0	12.0	CL	CL: Clayey sand
PT-RIDB8-36.3-36.6	36.4	20170322	63.5	42.6	20.9	MH	MH: Sandy elastic silt
PT-RIDB8-64.5-64.8	64.6	20170323	73.2	42.0	31.2	MH	MH: Sandy elastic silt
PT-RIDB8-76.1-76.4	76.2	20170323	107.1	35.2	71.9	CH	CH: Fat clay with sand
PT-RIDB8-82.5-82.8	82.6	20170323	69.4	36.9	32.5	MH	GM: Silty gravel with sand
PT-RIDB9-33.5-33.8	33.6	20170323	64.6	40.6	24.0	MH	MH: Elastic silt with sand
PT-RIDB9-64.0-64.3	64.0-64.3	20170324	57.0	35.8	21.2	MH	MH: Sandy elastic silt
PT-RIDB9-65.0-65.3	65.1	20170324	63.8	25.8	38.0	CH	CH: Fat clay
PT-RIDB9-74.2-74.5	74.2-74.5	20170327	51.1	22.4	28.7	CH	CH: Sandy fat clay
PT-RIDB9-82.1-82.4	82.2	20170327	108.6	31.5	77.1	CH	CH: Sandy fat clay
PT-RIDB10-36.0-36.3	36.0-36.3	20170327	66.4	41.7	24.7	MH	MH: Elastic silt with sand
PT-RIDB10-61.5-61.8	61.5-61.8	20170327	29.8	NON-PLASTIC		NP	ML: Silt with sand
PT-RIDB10-76.5-77.0	76.6	20170411	84.7	27.9	56.8	CH	CH: Fat clay with sand
PT-RIDB10-81.5-82.0	81.9	20170412	47.9	24.0	23.9	CL	CL: Lean clay
PT-RIDB13-25.5-26.0	25.5-26.0	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand
PT-RIDB13-63.0-63.5	63.1	20170412	78.5	27.2	51.3	CH	CH: Fat clay
PT-RIDB13-78.2-78.7	78.3	20170413	64.7	21.7	43.0	CH	CH: Fat clay
PT-RIDB13-81.0-81.4	81.1	20170413	72.9	24.8	48.1	CH	CH: Sandy fat clay
PT-RIDB14-16.0-16.5	16.0-16.5	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SW-SM: Well-graded sand with silt and gravel

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples and coarse grained samples where ABL was not requested.

USCS: Unified Soil Classification System

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-RIDB14-73.6-74.1	73.7	20170417	116.2	29.2	87.0	CH	CH: Fat clay with sand	
PT-RIDB14-81.0-81.5	81.0-81.5	20170419	80.8	28.0	52.8	CH	GC: Clayey gravel with sand	
PT-M201-29.0-29.5	29.0-29.5	20170420	73.7	56.1	17.6	MH	MH: Sandy elastic silt	
PT-M201-43.0-43.5	43.1	20170420	95.5	64.6	30.9	MH	SM: Silty sand	
PT-M201-57.0-57.5	57.1	20170420	67.2	33.8	33.4	MH	MH: Elastic silt with sand	
PT-M201-64.0-64.5	64.0-64.5	20170420	48.9	36.1	12.8	ML	GM: Silty gravel	
PT-M202-14.0-14.5	14.0-14.5	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM					SM: Silty sand with gravel

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples and coarse grained samples where ABL was not requested.
 USCS: Unified Soil Classification System

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3

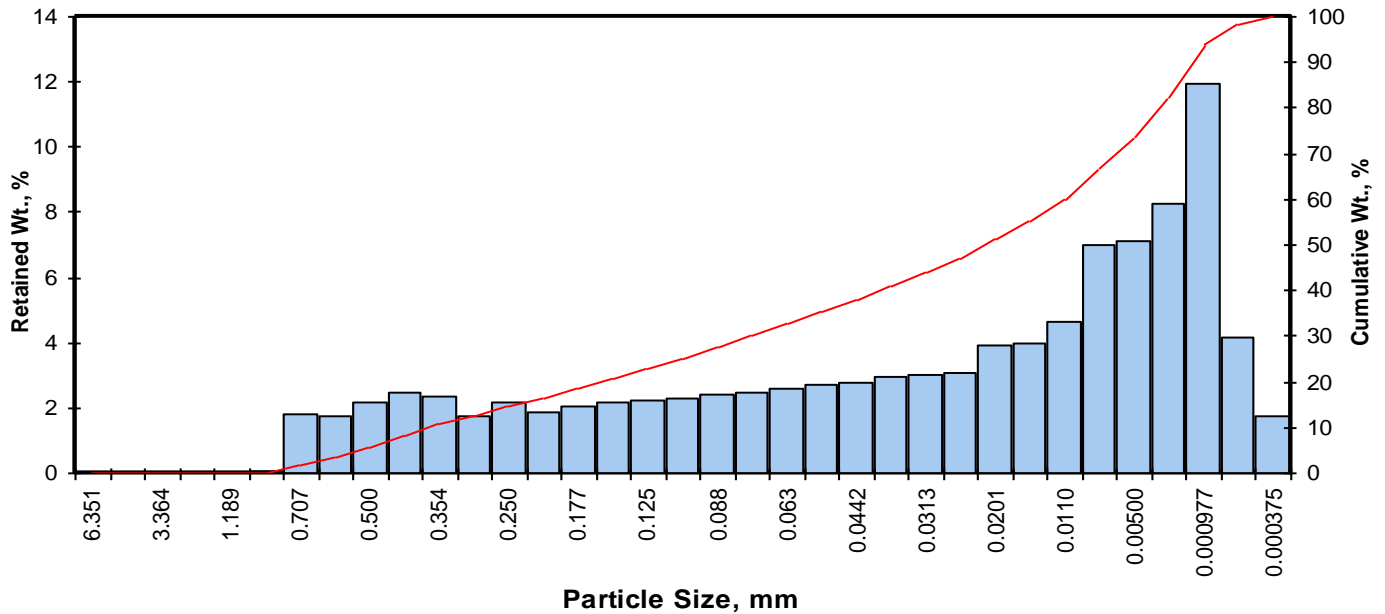
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-M222-65.0-65.4	65.1	Silt	0.021	0.00	0.00	8.25	21.76	43.86	26.13	69.99
PT-M222-80.2-80.6	80.3	Silt	0.011	0.00	0.00	0.00	6.77	60.55	32.68	93.23
PT-M222-105.0-105.4	105.3	Silt	0.009	0.00	0.00	0.00	13.85	45.81	40.34	86.15
PT-M72D-34.0-34.3	34.0-34.3	Silt	0.044	0.00	0.00	2.99	31.01	49.91	16.09	66.00
PT-M72D-49.5-49.8	49.5-49.8	Fine sand	0.023	0.00	0.00	17.24	19.25	37.03	26.49	63.51
PT-M72D-64.2-64.5	64.2-64.5	Fine sand	0.033	0.00	0.00	13.46	21.86	42.59	22.10	64.68
PT-M72D-65.8-66.1	65.8-66.1	Silt	0.040	0.00	0.00	9.27	24.36	47.99	18.38	66.38
PT-M66D-38.5-38.8	38.6	Fine sand	0.043	0.00	0.00	12.62	25.26	45.79	16.32	62.12
PT-M66D-48.5-48.8	48.5-48.8	Silt	0.039	0.00	0.00	8.20	26.24	48.94	16.62	65.56
PT-M66D-50.7-51.0	50.8	Silt	0.005	0.00	0.00	0.00	13.71	36.32	49.96	86.29
PT-M66D-64.0-64.3	64.0-64.3	Silt	0.047	0.00	0.00	3.09	27.09	54.13	15.69	69.82
PT-M140D-30.7-31.0	30.7-31.0	Silt	0.037	0.00	0.00	10.53	23.84	46.60	19.02	65.63
PT-M140D-36.0-36.3	36.1	Silt	0.022	0.00	0.00	4.28	18.07	52.91	24.73	77.64
PT-M140D-50.0-50.4	50.1	Silt	0.040	0.00	0.00	7.01	24.06	53.51	15.42	68.93

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-65.0-65.4
Depth, ft: 65.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.05	0.05	0.05
0.0278	0.707	0.50	25	1.80	1.80	1.85
0.0234	0.595	0.75	30	1.75	1.75	3.60
0.0197	0.500	1.00	35	2.19	2.19	5.80
0.0166	0.420	1.25	40	2.45	2.45	8.25
0.0139	0.354	1.50	45	2.33	2.33	10.58
0.0117	0.297	1.75	50	1.73	1.73	12.32
0.0098	0.250	2.00	60	2.18	2.18	14.50
0.0083	0.210	2.25	70	1.89	1.89	16.40
0.0070	0.177	2.50	80	2.03	2.03	18.43
0.0059	0.149	2.75	100	2.14	2.14	20.57
0.0049	0.125	3.00	120	2.22	2.22	22.80
0.0041	0.105	3.25	140	2.31	2.31	25.11
0.0035	0.088	3.50	170	2.40	2.40	27.52
0.0029	0.074	3.75	200	2.49	2.49	30.01
0.0025	0.063	4.00	230	2.60	2.60	32.62
0.0021	0.053	4.25	270	2.70	2.71	35.32
0.00174	0.0442	4.50	325	2.80	2.81	38.13
0.00146	0.0372	4.75	400	2.94	2.95	41.07
0.00123	0.0313	5.00	450	3.03	3.04	44.11
0.000986	0.0250	5.32	500	3.07	3.08	47.18
0.000790	0.0201	5.64	635	3.92	3.93	51.11
0.000615	0.0156	6.00		3.99	4.00	55.11
0.000435	0.0110	6.50		4.65	4.66	59.77
0.000308	0.00781	7.00		7.00	7.01	66.78
0.000197	0.00500	7.65		7.08	7.09	73.87
0.000077	0.00195	9.00		8.27	8.29	82.16
0.000038	0.000977	10.00		11.90	11.92	94.08
0.000019	0.000488	11.00		4.17	4.18	98.26
0.000015	0.000375	11.38		1.74	1.74	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.91	0.0210	0.532
10	1.44	0.0145	0.369
16	2.20	0.0086	0.218
25	3.24	0.0042	0.106
40	4.66	0.0016	0.040
50	5.55	0.0008	0.021
60	6.52	0.0004	0.011
75	7.83	0.0002	0.004
84	9.15	0.0001	0.002
90	9.66	0.0000	0.001
95	10.22	0.0000	0.001

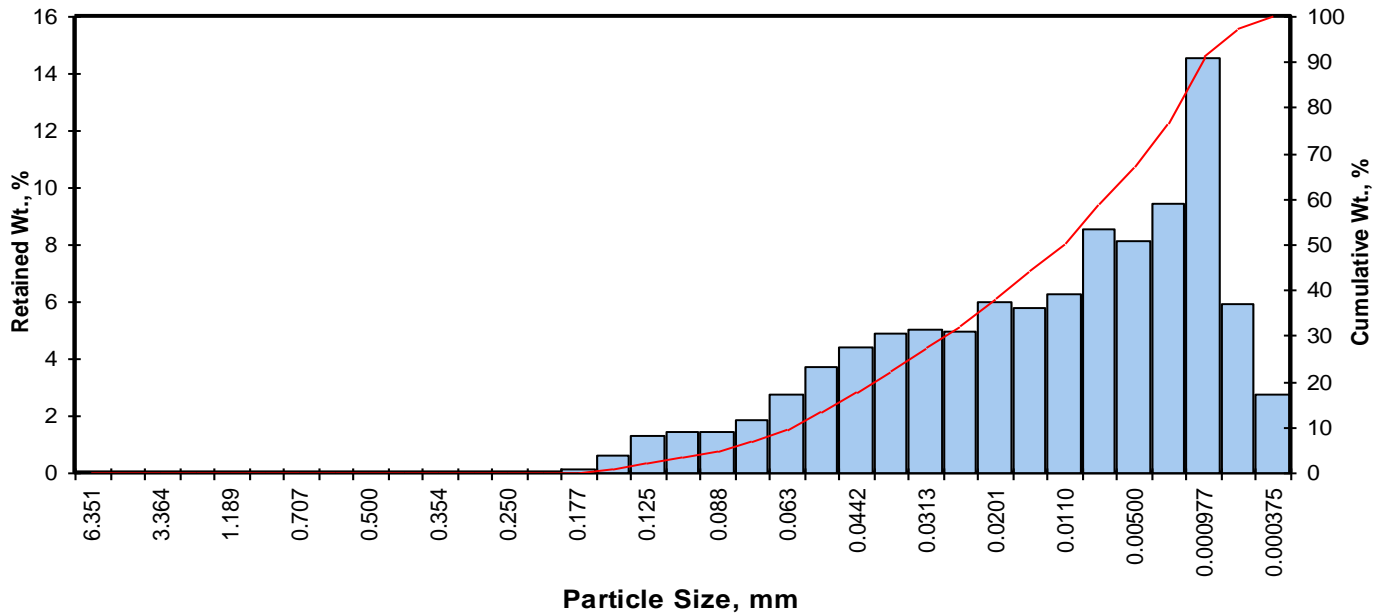
Measure	Trask	Inman	Folk-Ward
Median, phi	5.55	5.55	5.55
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	4.18	5.68	5.63
Mean, in.	0.0022	0.0008	0.0008
Mean, mm	0.055	0.020	0.020
Sorting	4.910	3.478	3.150
Skewness	1.011	0.036	0.020
Kurtosis	0.138	0.338	0.831
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	8.25
Fine Sand	200	21.76
Silt	>0.005 mm	43.86
Clay	<0.005 mm	26.13
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-80.2-80.6
Depth, ft: 80.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.01	0.01	0.01
0.0070	0.177	2.50	80	0.12	0.12	0.13
0.0059	0.149	2.75	100	0.60	0.60	0.73
0.0049	0.125	3.00	120	1.28	1.28	2.01
0.0041	0.105	3.25	140	1.45	1.46	3.47
0.0035	0.088	3.50	170	1.44	1.44	4.91
0.0029	0.074	3.75	200	1.85	1.86	6.77
0.0025	0.063	4.00	230	2.72	2.73	9.50
0.0021	0.053	4.25	270	3.69	3.70	13.20
0.00174	0.0442	4.50	325	4.41	4.43	17.63
0.00146	0.0372	4.75	400	4.88	4.90	22.52
0.00123	0.0313	5.00	450	5.03	5.05	27.57
0.000986	0.0250	5.32	500	4.95	4.97	32.54
0.000790	0.0201	5.64	635	6.00	6.02	38.56
0.000615	0.0156	6.00		5.75	5.77	44.33
0.000435	0.0110	6.50		6.28	6.30	50.63
0.000308	0.00781	7.00		8.53	8.56	59.19
0.000197	0.00500	7.65		8.10	8.13	67.32
0.000077	0.00195	9.00		9.43	9.46	76.78
0.000038	0.000977	10.00		14.50	14.55	91.33
0.000019	0.000488	11.00		5.90	5.92	97.25
0.000015	0.000375	11.38		2.74	2.75	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.51	0.0035	0.088
10	4.03	0.0024	0.061
16	4.41	0.0019	0.047
25	4.87	0.0013	0.034
40	5.73	0.0007	0.019
50	6.45	0.0005	0.011
60	7.06	0.0003	0.007
75	8.75	0.0001	0.002
84	9.50	0.0001	0.001
90	9.91	0.0000	0.001
95	10.62	0.0000	0.001

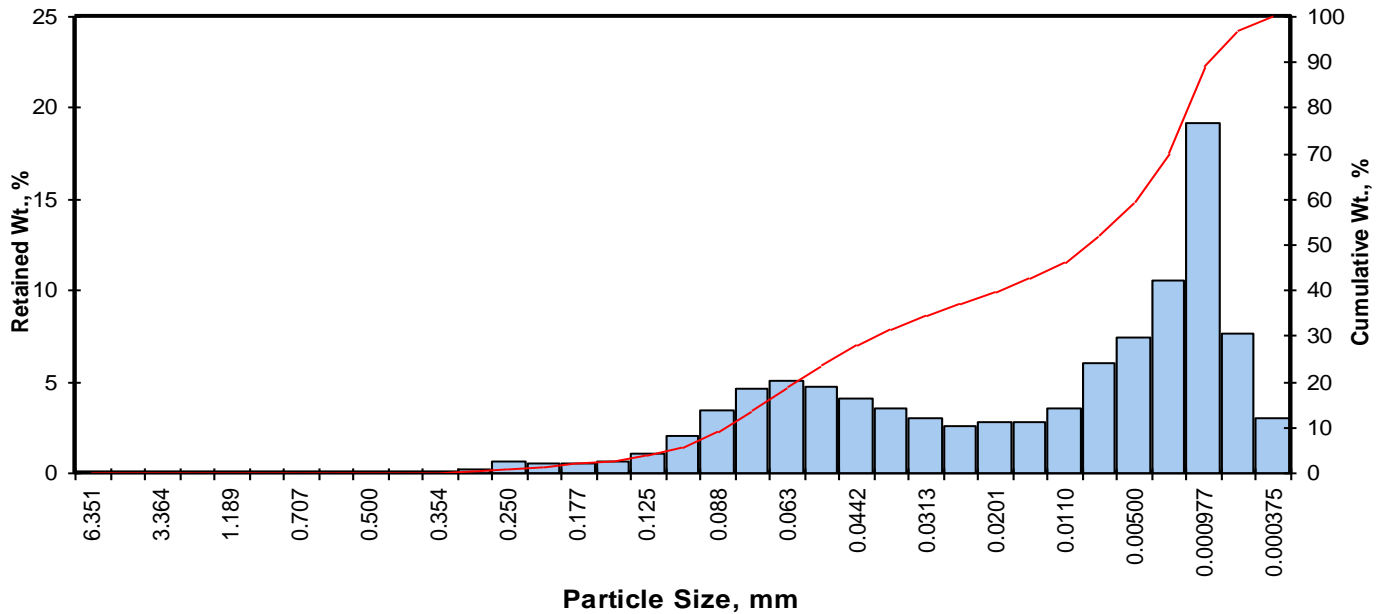
Measure	Trask	Inman	Folk-Ward
Median, phi	6.45	6.45	6.45
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.011	0.011	0.011
Mean, phi	5.78	6.95	6.78
Mean, in.	0.0007	0.0003	0.0004
Mean, mm	0.018	0.008	0.009
Sorting	3.827	2.544	2.349
Skewness	0.780	0.197	0.185
Kurtosis	0.265	0.397	0.752
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	6.77
Silt	>0.005 mm	60.55
Clay	<0.005 mm	32.68
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-105.0-105.4
Depth, ft: 105.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.05	0.05	0.05
0.0117	0.297	1.75	50	0.23	0.23	0.28
0.0098	0.250	2.00	60	0.61	0.61	0.89
0.0083	0.210	2.25	70	0.54	0.54	1.44
0.0070	0.177	2.50	80	0.52	0.52	1.96
0.0059	0.149	2.75	100	0.67	0.67	2.63
0.0049	0.125	3.00	120	1.12	1.12	3.75
0.0041	0.105	3.25	140	2.03	2.04	5.79
0.0035	0.088	3.50	170	3.40	3.41	9.19
0.0029	0.074	3.75	200	4.64	4.65	13.85
0.0025	0.063	4.00	230	5.10	5.11	18.96
0.0021	0.053	4.25	270	4.75	4.76	23.72
0.00174	0.0442	4.50	325	4.09	4.10	27.82
0.00146	0.0372	4.75	400	3.54	3.55	31.37
0.00123	0.0313	5.00	450	3.05	3.06	34.43
0.000986	0.0250	5.32	500	2.59	2.60	37.02
0.000790	0.0201	5.64	635	2.83	2.84	39.86
0.000615	0.0156	6.00		2.82	2.83	42.69
0.000435	0.0110	6.50		3.53	3.54	46.23
0.000308	0.00781	7.00		6.00	6.01	52.24
0.000197	0.00500	7.65		7.40	7.42	59.66
0.000077	0.00195	9.00		10.50	10.53	70.19
0.000038	0.000977	10.00		19.10	19.15	89.33
0.000019	0.000488	11.00		7.60	7.62	96.95
0.000015	0.000375	11.38		3.04	3.05	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.15	0.0044	0.112
10	3.54	0.0034	0.086
16	3.86	0.0027	0.069
25	4.33	0.0020	0.050
40	5.66	0.0008	0.020
50	6.81	0.0003	0.009
60	7.69	0.0002	0.005
75	9.25	0.0001	0.002
84	9.72	0.0000	0.001
90	10.09	0.0000	0.001
95	10.74	0.0000	0.001

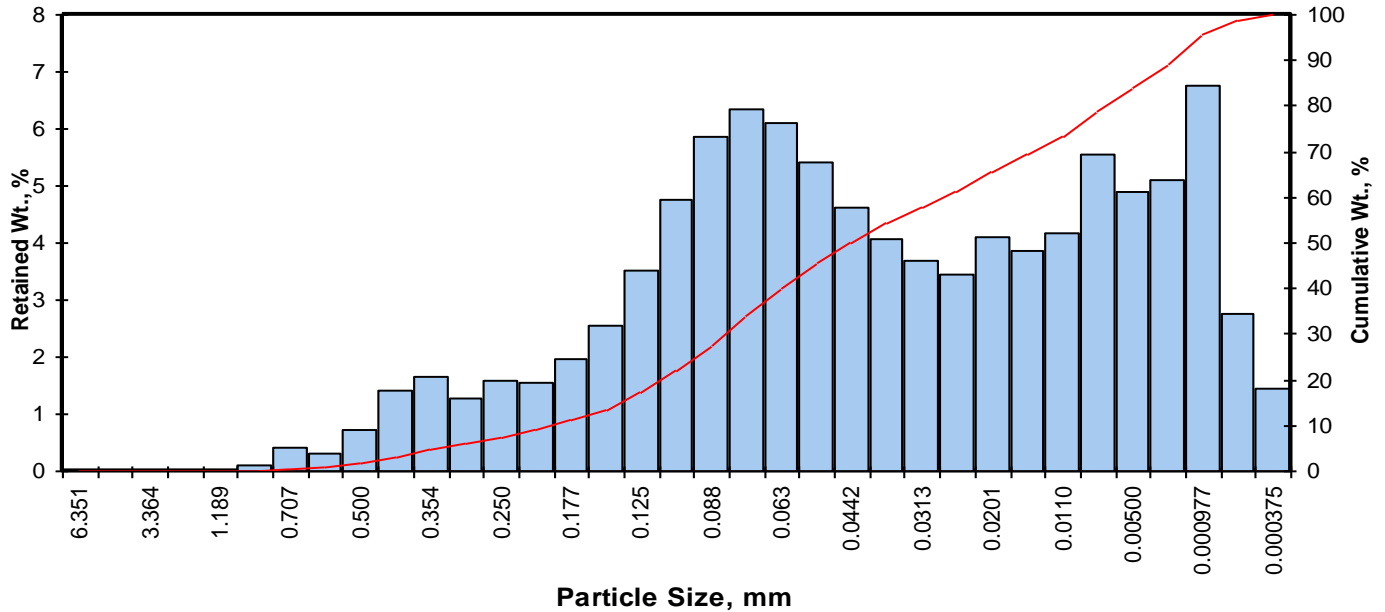
Measure	Trask	Inman	Folk-Ward
Median, phi	6.81	6.81	6.81
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.009	0.009	0.009
Mean, phi	5.28	6.79	6.80
Mean, in.	0.0010	0.0004	0.0004
Mean, mm	0.026	0.009	0.009
Sorting	5.509	2.933	2.617
Skewness	1.017	-0.009	0.013
Kurtosis	0.284	0.294	0.632
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	13.85
Silt	>0.005 mm	45.81
Clay	<0.005 mm	40.34
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M72D-34.0-34.3
Depth, ft: 34.0-34.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.11	0.11	0.11
0.0278	0.707	0.50	25	0.42	0.42	0.53
0.0234	0.595	0.75	30	0.30	0.30	0.83
0.0197	0.500	1.00	35	0.74	0.74	1.57
0.0166	0.420	1.25	40	1.42	1.42	2.99
0.0139	0.354	1.50	45	1.66	1.66	4.66
0.0117	0.297	1.75	50	1.26	1.26	5.92
0.0098	0.250	2.00	60	1.58	1.58	7.50
0.0083	0.210	2.25	70	1.54	1.54	9.04
0.0070	0.177	2.50	80	1.97	1.97	11.02
0.0059	0.149	2.75	100	2.55	2.55	13.57
0.0049	0.125	3.00	120	3.50	3.51	17.08
0.0041	0.105	3.25	140	4.74	4.75	21.82
0.0035	0.088	3.50	170	5.84	5.85	27.67
0.0029	0.074	3.75	200	6.32	6.33	34.00
0.0025	0.063	4.00	230	6.09	6.10	40.10
0.0021	0.053	4.25	270	5.41	5.42	45.52
0.00174	0.0442	4.50	325	4.63	4.64	50.16
0.00146	0.0372	4.75	400	4.05	4.06	54.22
0.00123	0.0313	5.00	450	3.68	3.69	57.90
0.000986	0.0250	5.32	500	3.43	3.44	61.34
0.000790	0.0201	5.64	635	4.09	4.10	65.43
0.000615	0.0156	6.00		3.86	3.87	69.30
0.000435	0.0110	6.50		4.16	4.17	73.47
0.000308	0.00781	7.00		5.53	5.54	79.01
0.000197	0.00500	7.65		4.90	4.91	83.91
0.000077	0.00195	9.00		5.11	5.12	89.03
0.000038	0.000977	10.00		6.76	6.77	95.80
0.000019	0.000488	11.00		2.75	2.75	98.56
0.000015	0.000375	11.38		1.44	1.44	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.57	0.0133	0.337
10	2.37	0.0076	0.193
16	2.92	0.0052	0.132
25	3.39	0.0038	0.096
40	4.00	0.0025	0.063
50	4.49	0.0018	0.044
60	5.20	0.0011	0.027
75	6.64	0.0004	0.010
84	7.67	0.0002	0.005
90	9.14	0.0001	0.002
95	9.88	0.0000	0.001

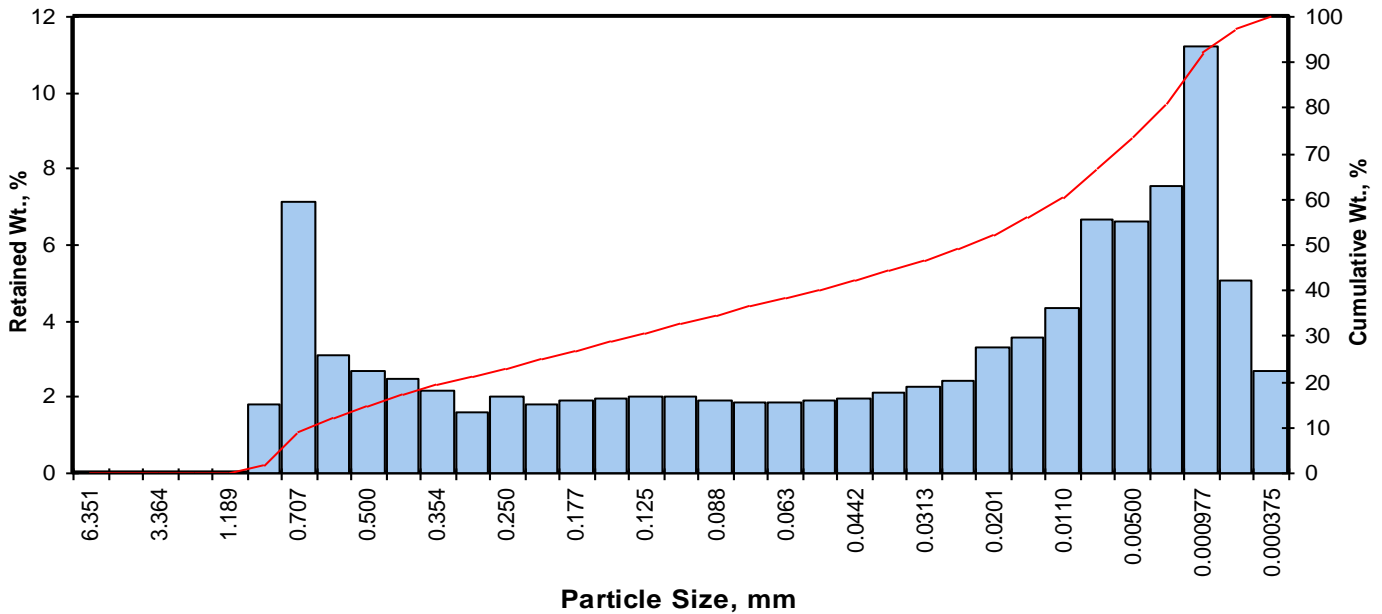
Measure	Trask	Inman	Folk-Ward
Median, phi	4.49	4.49	4.49
Median, in.	0.0018	0.0018	0.0018
Median, mm	0.044	0.044	0.044
Mean, phi	4.24	5.30	5.03
Mean, in.	0.0021	0.0010	0.0012
Mean, mm	0.053	0.025	0.031
Sorting	3.087	2.372	2.446
Skewness	0.697	0.339	0.318
Kurtosis	0.224	0.752	1.048
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.99
Fine Sand	200	31.01
Silt	>0.005 mm	49.91
Clay	<0.005 mm	16.09
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M72D-49.5-49.8
 Depth, ft: 49.5-49.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	1.83	1.84	1.84
0.0278	0.707	0.50	25	7.10	7.12	8.96
0.0234	0.595	0.75	30	3.08	3.09	12.04
0.0197	0.500	1.00	35	2.70	2.71	14.75
0.0166	0.420	1.25	40	2.48	2.49	17.24
0.0139	0.354	1.50	45	2.18	2.19	19.43
0.0117	0.297	1.75	50	1.58	1.58	21.01
0.0098	0.250	2.00	60	2.03	2.04	23.05
0.0083	0.210	2.25	70	1.78	1.79	24.83
0.0070	0.177	2.50	80	1.89	1.90	26.73
0.0059	0.149	2.75	100	1.96	1.97	28.69
0.0049	0.125	3.00	120	2.02	2.03	30.72
0.0041	0.105	3.25	140	2.00	2.01	32.72
0.0035	0.088	3.50	170	1.91	1.92	34.64
0.0029	0.074	3.75	200	1.84	1.85	36.49
0.0025	0.063	4.00	230	1.84	1.85	38.33
0.0021	0.053	4.25	270	1.89	1.90	40.23
0.00174	0.0442	4.50	325	1.96	1.97	42.19
0.00146	0.0372	4.75	400	2.09	2.10	44.29
0.00123	0.0313	5.00	450	2.26	2.27	46.56
0.000986	0.0250	5.32	500	2.43	2.44	48.99
0.000790	0.0201	5.64	635	3.28	3.29	52.28
0.000615	0.0156	6.00		3.55	3.56	55.84
0.000435	0.0110	6.50		4.35	4.36	60.20
0.000308	0.00781	7.00		6.66	6.68	66.88
0.000197	0.00500	7.65		6.61	6.63	73.51
0.000077	0.00195	9.00		7.52	7.54	81.06
0.000038	0.000977	10.00		11.20	11.23	92.29
0.000019	0.000488	11.00		5.03	5.04	97.33
0.000015	0.000375	11.38		2.66	2.67	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.36	0.0307	0.779
10	0.58	0.0263	0.667
16	1.13	0.0180	0.458
25	2.27	0.0082	0.207
40	4.22	0.0021	0.054
50	5.42	0.0009	0.023
60	6.48	0.0004	0.011
75	7.91	0.0002	0.004
84	9.26	0.0001	0.002
90	9.80	0.0000	0.001
95	10.54	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.42	5.42	5.42
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.023	0.023	0.023
Mean, phi	3.24	5.19	5.27
Mean, in.	0.0042	0.0011	0.0010
Mean, mm	0.106	0.027	0.026
Sorting	7.062	4.068	3.576
Skewness	1.253	-0.055	-0.024
Kurtosis	0.152	0.251	0.739

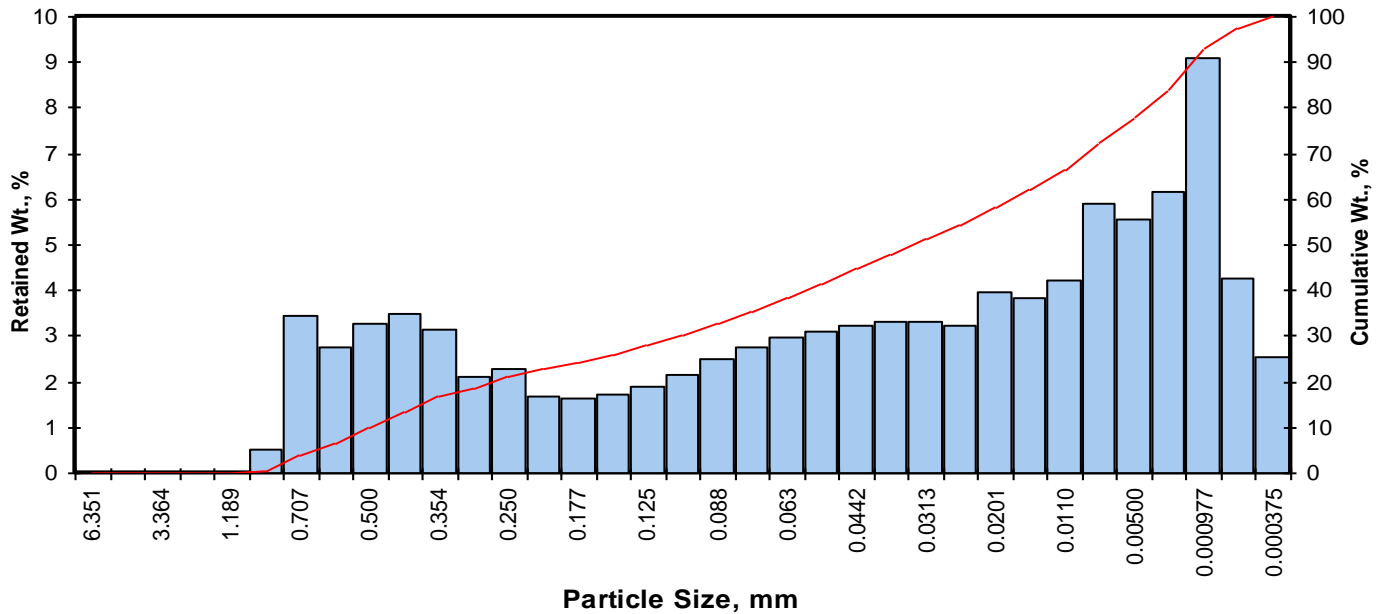
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	17.24
Fine Sand	200	19.25
Silt	>0.005 mm	37.03
Clay	<0.005 mm	26.49
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M72D-64.2-64.5
 Depth, ft: 64.2-64.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.51	0.51	0.51
0.0278	0.707	0.50	25	3.42	3.43	3.94
0.0234	0.595	0.75	30	2.73	2.74	6.68
0.0197	0.500	1.00	35	3.27	3.28	9.96
0.0166	0.420	1.25	40	3.49	3.50	13.46
0.0139	0.354	1.50	45	3.14	3.15	16.61
0.0117	0.297	1.75	50	2.12	2.13	18.74
0.0098	0.250	2.00	60	2.27	2.28	21.01
0.0083	0.210	2.25	70	1.66	1.66	22.68
0.0070	0.177	2.50	80	1.63	1.63	24.31
0.0059	0.149	2.75	100	1.70	1.71	26.02
0.0049	0.125	3.00	120	1.88	1.89	27.90
0.0041	0.105	3.25	140	2.17	2.18	30.08
0.0035	0.088	3.50	170	2.48	2.49	32.57
0.0029	0.074	3.75	200	2.74	2.75	35.32
0.0025	0.063	4.00	230	2.95	2.96	38.27
0.0021	0.053	4.25	270	3.11	3.12	41.39
0.00174	0.0442	4.50	325	3.21	3.22	44.61
0.00146	0.0372	4.75	400	3.29	3.30	47.91
0.00123	0.0313	5.00	450	3.29	3.30	51.21
0.000986	0.0250	5.32	500	3.22	3.23	54.44
0.000790	0.0201	5.64	635	3.94	3.95	58.40
0.000615	0.0156	6.00		3.81	3.82	62.22
0.000435	0.0110	6.50		4.23	4.24	66.46
0.000308	0.00781	7.00		5.88	5.90	72.36
0.000197	0.00500	7.65		5.53	5.55	77.90
0.000077	0.00195	9.00		6.16	6.18	84.08
0.000038	0.000977	10.00		9.08	9.11	93.19
0.000019	0.000488	11.00		4.26	4.27	97.46
0.000015	0.000375	11.38		2.53	2.54	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.60	0.0260	0.661
10	1.00	0.0196	0.499
16	1.45	0.0144	0.366
25	2.60	0.0065	0.165
40	4.14	0.0022	0.057
50	4.91	0.0013	0.033
60	5.79	0.0007	0.018
75	7.31	0.0002	0.006
84	8.98	0.0001	0.002
90	9.65	0.0000	0.001
95	10.42	0.0000	0.001

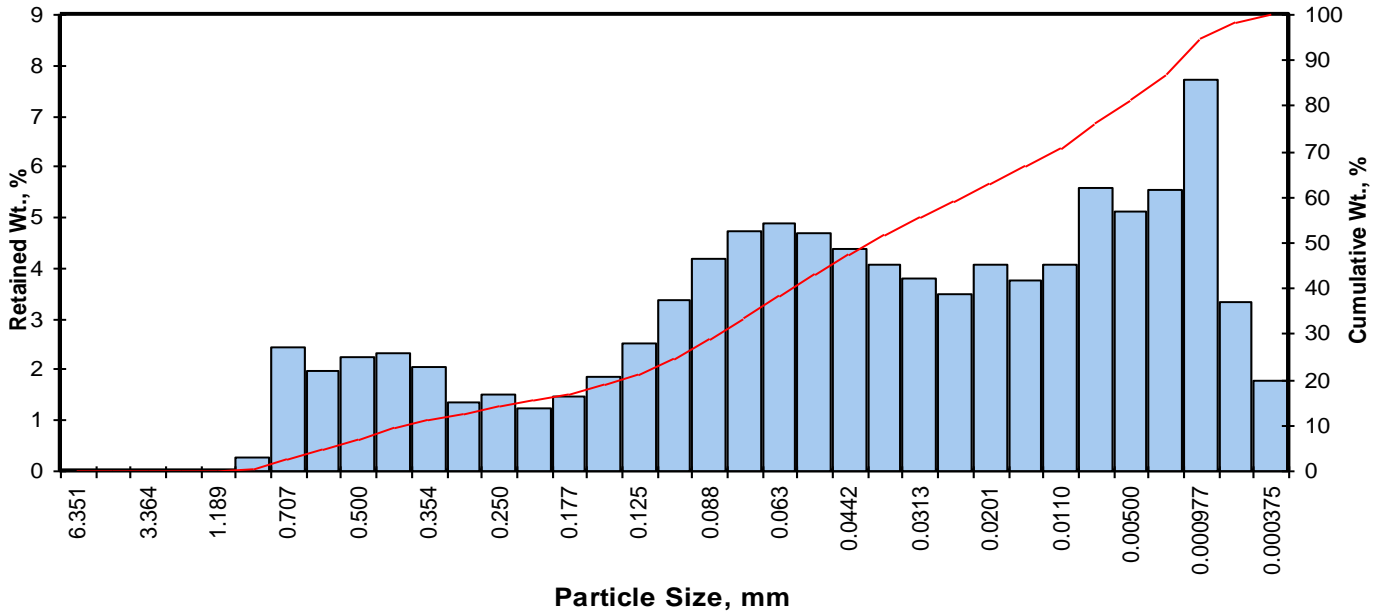
Measure	Trask	Inman	Folk-Ward
Median, phi	4.91	4.91	4.91
Median, in.	0.0013	0.0013	0.0013
Median, mm	0.033	0.033	0.033
Mean, phi	3.55	5.22	5.11
Mean, in.	0.0034	0.0011	0.0011
Mean, mm	0.086	0.027	0.029
Sorting	5.110	3.765	3.372
Skewness	0.969	0.082	0.102
Kurtosis	0.159	0.305	0.856
Grain Size Description		Fine sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	13.46
Fine Sand	200	21.86
Silt	>0.005 mm	42.59
Clay	<0.005 mm	22.10
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M72D-65.8-66.1
Depth, ft: 65.8-66.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.29	0.29	0.29
0.0278	0.707	0.50	25	2.44	2.44	2.74
0.0234	0.595	0.75	30	1.96	1.96	4.70
0.0197	0.500	1.00	35	2.23	2.23	6.93
0.0166	0.420	1.25	40	2.33	2.33	9.27
0.0139	0.354	1.50	45	2.06	2.06	11.33
0.0117	0.297	1.75	50	1.37	1.37	12.70
0.0098	0.250	2.00	60	1.50	1.50	14.21
0.0083	0.210	2.25	70	1.25	1.25	15.46
0.0070	0.177	2.50	80	1.47	1.47	16.93
0.0059	0.149	2.75	100	1.86	1.86	18.80
0.0049	0.125	3.00	120	2.52	2.52	21.32
0.0041	0.105	3.25	140	3.36	3.37	24.69
0.0035	0.088	3.50	170	4.19	4.20	28.88
0.0029	0.074	3.75	200	4.73	4.74	33.62
0.0025	0.063	4.00	230	4.88	4.89	38.51
0.0021	0.053	4.25	270	4.70	4.71	43.22
0.00174	0.0442	4.50	325	4.38	4.39	47.61
0.00146	0.0372	4.75	400	4.08	4.09	51.70
0.00123	0.0313	5.00	450	3.78	3.79	55.49
0.000986	0.0250	5.32	500	3.49	3.50	58.98
0.000790	0.0201	5.64	635	4.05	4.06	63.04
0.000615	0.0156	6.00		3.76	3.77	66.81
0.000435	0.0110	6.50		4.07	4.08	70.88
0.000308	0.00781	7.00		5.58	5.59	76.48
0.000197	0.00500	7.65		5.13	5.14	81.62
0.000077	0.00195	9.00		5.53	5.54	87.16
0.000038	0.000977	10.00		7.70	7.71	94.87
0.000019	0.000488	11.00		3.33	3.34	98.21
0.000015	0.000375	11.38		1.79	1.79	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.78	0.0229	0.581
10	1.34	0.0156	0.395
16	2.34	0.0078	0.197
25	3.27	0.0041	0.104
40	4.08	0.0023	0.059
50	4.65	0.0016	0.040
60	5.40	0.0009	0.024
75	6.87	0.0003	0.009
84	8.23	0.0001	0.003
90	9.37	0.0001	0.002
95	10.04	0.0000	0.001

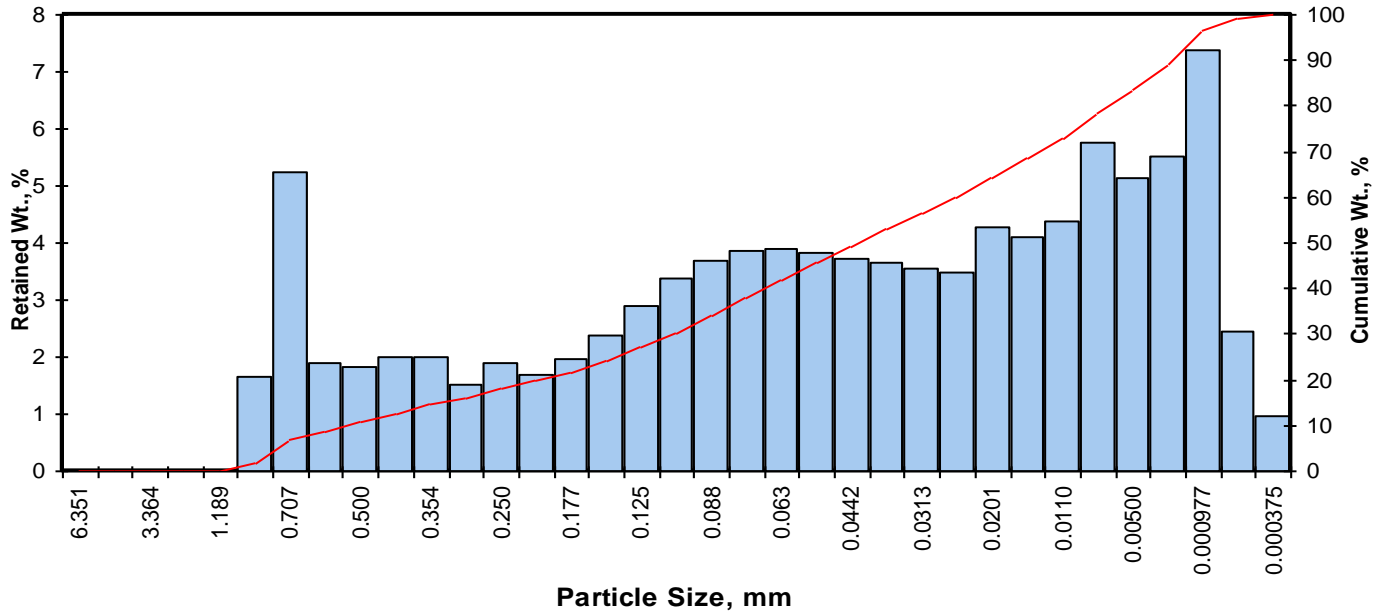
Measure	Trask	Inman	Folk-Ward
Median, phi	4.65	4.65	4.65
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.040	0.040	0.040
Mean, phi	4.15	5.29	5.07
Mean, in.	0.0022	0.0010	0.0012
Mean, mm	0.056	0.026	0.030
Sorting	3.481	2.943	2.874
Skewness	0.746	0.217	0.191
Kurtosis	0.121	0.572	1.054
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	9.27
Fine Sand	200	24.36
Silt	>0.005 mm	47.99
Clay	<0.005 mm	18.38
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M66D-38.5-38.8
Depth, ft: 38.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	1.67	1.67	1.67
0.0278	0.707	0.50	25	5.24	5.24	6.92
0.0234	0.595	0.75	30	1.89	1.89	8.81
0.0197	0.500	1.00	35	1.81	1.81	10.62
0.0166	0.420	1.25	40	2.00	2.00	12.62
0.0139	0.354	1.50	45	2.01	2.01	14.63
0.0117	0.297	1.75	50	1.52	1.52	16.15
0.0098	0.250	2.00	60	1.89	1.89	18.05
0.0083	0.210	2.25	70	1.68	1.68	19.73
0.0070	0.177	2.50	80	1.96	1.96	21.69
0.0059	0.149	2.75	100	2.37	2.37	24.06
0.0049	0.125	3.00	120	2.90	2.90	26.96
0.0041	0.105	3.25	140	3.37	3.37	30.34
0.0035	0.088	3.50	170	3.69	3.69	34.03
0.0029	0.074	3.75	200	3.85	3.85	37.88
0.0025	0.063	4.00	230	3.89	3.89	41.78
0.0021	0.053	4.25	270	3.83	3.83	45.61
0.00174	0.0442	4.50	325	3.72	3.72	49.33
0.00146	0.0372	4.75	400	3.64	3.64	52.98
0.00123	0.0313	5.00	450	3.56	3.56	56.54
0.000986	0.0250	5.32	500	3.48	3.48	60.02
0.000790	0.0201	5.64	635	4.28	4.28	64.31
0.000615	0.0156	6.00		4.10	4.10	68.41
0.000435	0.0110	6.50		4.37	4.37	72.79
0.000308	0.00781	7.00		5.74	5.75	78.53
0.000197	0.00500	7.65		5.14	5.14	83.68
0.000077	0.00195	9.00		5.52	5.52	89.20
0.000038	0.000977	10.00		7.37	7.38	96.58
0.000019	0.000488	11.00		2.44	2.44	99.02
0.000015	0.000375	11.38		0.98	0.98	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.41	0.0297	0.753
10	0.91	0.0209	0.531
16	1.72	0.0119	0.303
25	2.83	0.0055	0.141
40	3.89	0.0027	0.068
50	4.55	0.0017	0.043
60	5.32	0.0010	0.025
75	6.69	0.0004	0.010
84	7.72	0.0002	0.005
90	9.11	0.0001	0.002
95	9.79	0.0000	0.001

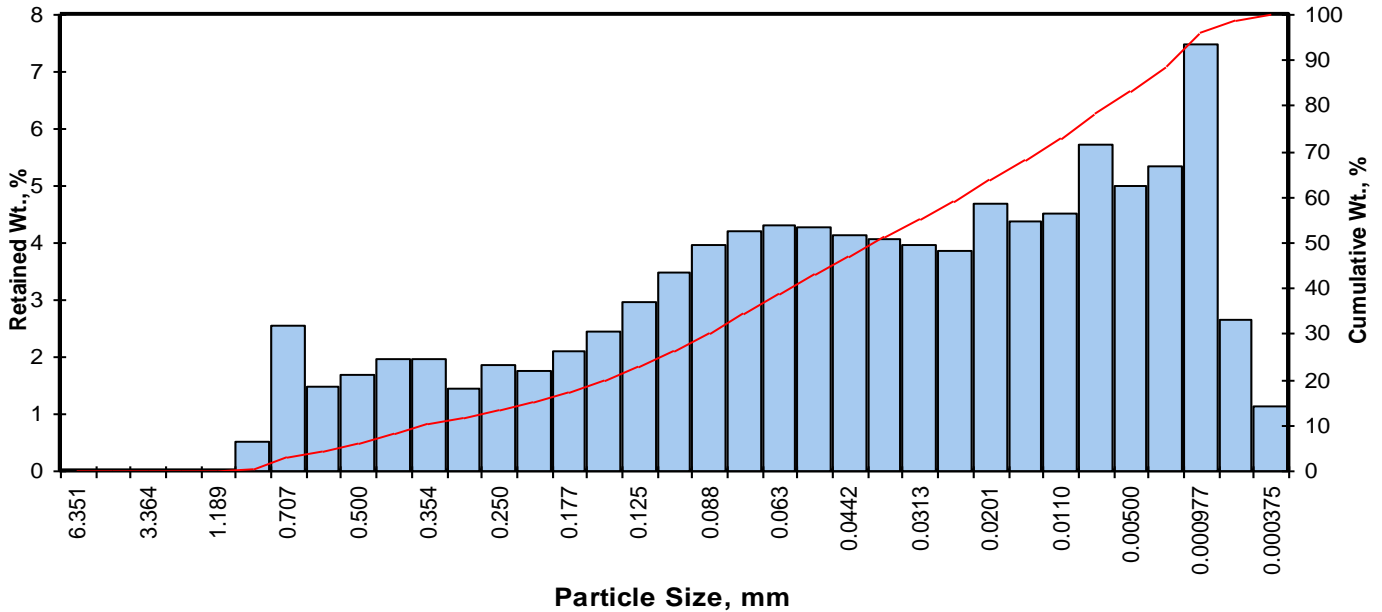
Measure	Trask	Inman	Folk-Ward
Median, phi	4.55	4.55	4.55
Median, in.	0.0017	0.0017	0.0017
Median, mm	0.043	0.043	0.043
Mean, phi	3.73	4.72	4.66
Mean, in.	0.0030	0.0015	0.0016
Mean, mm	0.075	0.038	0.039
Sorting	3.813	3.000	2.921
Skewness	0.861	0.060	0.089
Kurtosis	0.124	0.563	0.995
Grain Size Description		Fine sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	12.62
Fine Sand	200	25.26
Silt	>0.005 mm	45.79
Clay	<0.005 mm	16.32
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M66D-48.5-48.8
Depth, ft: 48.5-48.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.51	0.51	0.51
0.0278	0.707	0.50	25	2.54	2.54	3.05
0.0234	0.595	0.75	30	1.47	1.47	4.52
0.0197	0.500	1.00	35	1.69	1.69	6.21
0.0166	0.420	1.25	40	1.98	1.98	8.20
0.0139	0.354	1.50	45	1.96	1.96	10.16
0.0117	0.297	1.75	50	1.46	1.46	11.62
0.0098	0.250	2.00	60	1.87	1.87	13.49
0.0083	0.210	2.25	70	1.77	1.77	15.26
0.0070	0.177	2.50	80	2.09	2.09	17.35
0.0059	0.149	2.75	100	2.46	2.46	19.82
0.0049	0.125	3.00	120	2.95	2.95	22.77
0.0041	0.105	3.25	140	3.49	3.49	26.26
0.0035	0.088	3.50	170	3.95	3.95	30.21
0.0029	0.074	3.75	200	4.22	4.22	34.44
0.0025	0.063	4.00	230	4.32	4.32	38.76
0.0021	0.053	4.25	270	4.27	4.27	43.03
0.00174	0.0442	4.50	325	4.14	4.14	47.18
0.00146	0.0372	4.75	400	4.05	4.05	51.23
0.00123	0.0313	5.00	450	3.97	3.97	55.20
0.000986	0.0250	5.32	500	3.87	3.87	59.08
0.000790	0.0201	5.64	635	4.70	4.70	63.78
0.000615	0.0156	6.00		4.37	4.37	68.15
0.000435	0.0110	6.50		4.52	4.52	72.68
0.000308	0.00781	7.00		5.71	5.71	78.39
0.000197	0.00500	7.65		4.98	4.98	83.38
0.000077	0.00195	9.00		5.35	5.35	88.73
0.000038	0.000977	10.00		7.46	7.47	96.20
0.000019	0.000488	11.00		2.67	2.67	98.87
0.000015	0.000375	11.38		1.13	1.13	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.82	0.0223	0.566
10	1.48	0.0141	0.359
16	2.34	0.0078	0.198
25	3.16	0.0044	0.112
40	4.07	0.0023	0.059
50	4.67	0.0015	0.039
60	5.38	0.0009	0.024
75	6.70	0.0004	0.010
84	7.80	0.0002	0.004
90	9.17	0.0001	0.002
95	9.84	0.0000	0.001

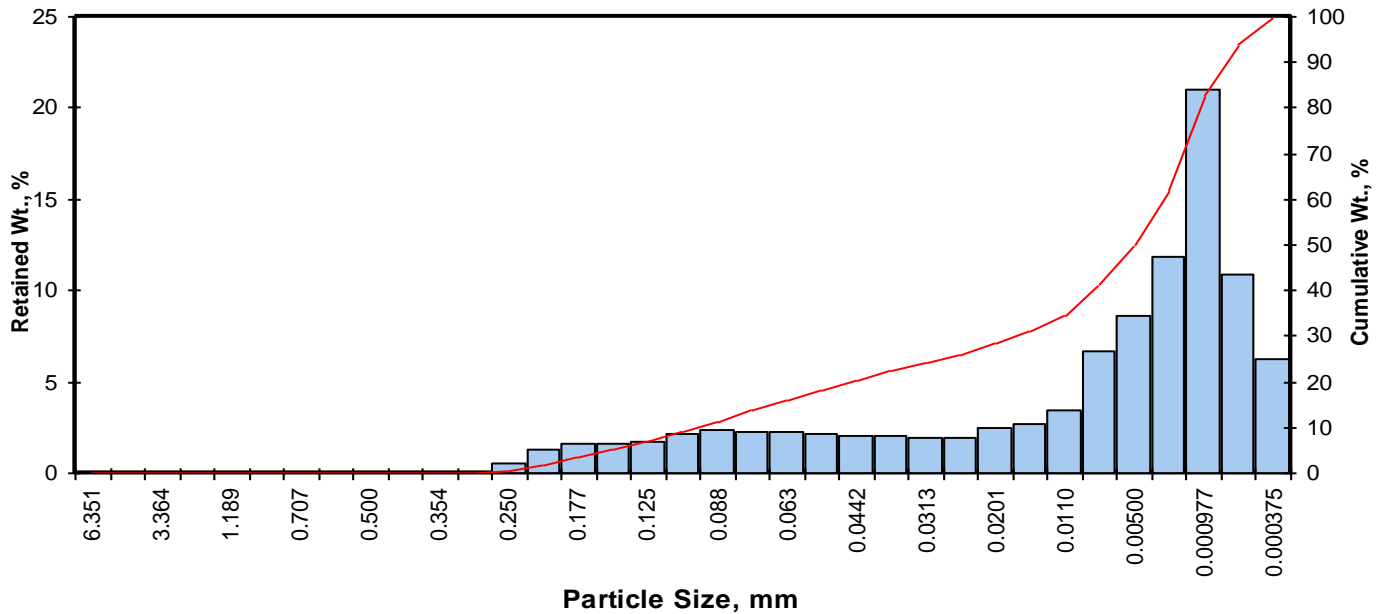
Measure	Trask	Inman	Folk-Ward
Median, phi	4.67	4.67	4.67
Median, in.	0.0015	0.0015	0.0015
Median, mm	0.039	0.039	0.039
Mean, phi	4.04	5.07	4.94
Mean, in.	0.0024	0.0012	0.0013
Mean, mm	0.061	0.030	0.033
Sorting	3.415	2.732	2.733
Skewness	0.837	0.145	0.145
Kurtosis	0.143	0.651	1.043
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	8.20
Fine Sand	200	26.24
Silt	>0.005 mm	48.94
Clay	<0.005 mm	16.62
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M66D-50.7-51.0
Depth, ft: 50.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.04	0.04	0.04
0.0098	0.250	2.00	60	0.56	0.56	0.61
0.0083	0.210	2.25	70	1.27	1.28	1.88
0.0070	0.177	2.50	80	1.65	1.66	3.54
0.0059	0.149	2.75	100	1.63	1.64	5.18
0.0049	0.125	3.00	120	1.76	1.77	6.95
0.0041	0.105	3.25	140	2.11	2.12	9.08
0.0035	0.088	3.50	170	2.31	2.32	11.40
0.0029	0.074	3.75	200	2.30	2.31	13.71
0.0025	0.063	4.00	230	2.23	2.24	15.96
0.0021	0.053	4.25	270	2.16	2.17	18.13
0.00174	0.0442	4.50	325	2.07	2.08	20.21
0.00146	0.0372	4.75	400	1.99	2.00	22.21
0.00123	0.0313	5.00	450	1.93	1.94	24.16
0.000986	0.0250	5.32	500	1.90	1.91	26.07
0.000790	0.0201	5.64	635	2.44	2.45	28.52
0.000615	0.0156	6.00		2.64	2.66	31.18
0.000435	0.0110	6.50		3.48	3.50	34.68
0.000308	0.00781	7.00		6.67	6.71	41.39
0.000197	0.00500	7.65		8.60	8.65	50.04
0.000077	0.00195	9.00		11.80	11.87	61.91
0.000038	0.000977	10.00		20.90	21.02	82.93
0.000019	0.000488	11.00		10.80	10.86	93.79
0.000015	0.000375	11.38		6.17	6.21	100.00
TOTALS				99.40	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.72	0.0060	0.152
10	3.35	0.0039	0.098
16	4.00	0.0025	0.062
25	5.14	0.0011	0.028
40	6.90	0.0003	0.008
50	7.64	0.0002	0.005
60	8.78	0.0001	0.002
75	9.62	0.0000	0.001
84	10.10	0.0000	0.001
90	10.65	0.0000	0.001
95	11.07	0.0000	0.000

Measure	Trask	Inman	Folk-Ward
Median, phi	7.64	7.64	7.64
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.005	0.005	0.005
Mean, phi	6.08	7.05	7.25
Mean, in.	0.0006	0.0003	0.0003
Mean, mm	0.015	0.008	0.007
Sorting	4.726	3.047	2.789
Skewness	1.198	-0.194	-0.186
Kurtosis	0.139	0.371	0.764

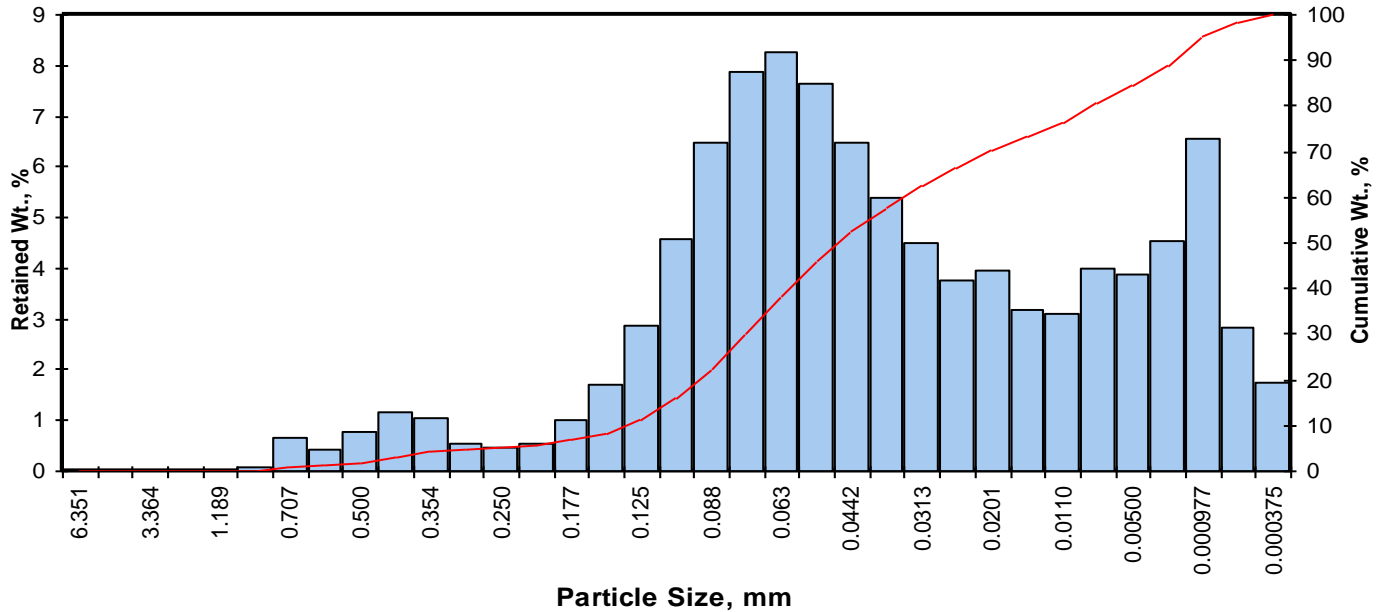
Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	13.71
Silt	>0.005 mm	36.32
Clay	<0.005 mm	49.96
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M66D-64.0-64.3
Depth, ft: 64.0-64.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.07	0.07	0.07
0.0278	0.707	0.50	25	0.64	0.64	0.71
0.0234	0.595	0.75	30	0.44	0.44	1.15
0.0197	0.500	1.00	35	0.77	0.77	1.93
0.0166	0.420	1.25	40	1.16	1.16	3.09
0.0139	0.354	1.50	45	1.06	1.06	4.15
0.0117	0.297	1.75	50	0.55	0.55	4.70
0.0098	0.250	2.00	60	0.45	0.45	5.15
0.0083	0.210	2.25	70	0.53	0.53	5.68
0.0070	0.177	2.50	80	1.00	1.00	6.68
0.0059	0.149	2.75	100	1.70	1.70	8.39
0.0049	0.125	3.00	120	2.86	2.87	11.25
0.0041	0.105	3.25	140	4.56	4.57	15.82
0.0035	0.088	3.50	170	6.47	6.48	22.30
0.0029	0.074	3.75	200	7.86	7.87	30.18
0.0025	0.063	4.00	230	8.24	8.26	38.43
0.0021	0.053	4.25	270	7.61	7.62	46.06
0.00174	0.0442	4.50	325	6.48	6.49	52.55
0.00146	0.0372	4.75	400	5.37	5.38	57.93
0.00123	0.0313	5.00	450	4.49	4.50	62.43
0.000986	0.0250	5.32	500	3.77	3.78	66.21
0.000790	0.0201	5.64	635	3.94	3.95	70.15
0.000615	0.0156	6.00		3.19	3.20	73.35
0.000435	0.0110	6.50		3.08	3.09	76.44
0.000308	0.00781	7.00		4.00	4.01	80.44
0.000197	0.00500	7.65		3.86	3.87	84.31
0.000077	0.00195	9.00		4.54	4.55	88.86
0.000038	0.000977	10.00		6.55	6.56	95.42
0.000019	0.000488	11.00		2.84	2.85	98.27
0.000015	0.000375	11.38		1.73	1.73	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.92	0.0104	0.265
10	2.89	0.0053	0.135
16	3.26	0.0041	0.105
25	3.59	0.0033	0.083
40	4.05	0.0024	0.060
50	4.40	0.0019	0.047
60	4.86	0.0014	0.034
75	6.27	0.0005	0.013
84	7.59	0.0002	0.005
90	9.17	0.0001	0.002
95	9.94	0.0000	0.001

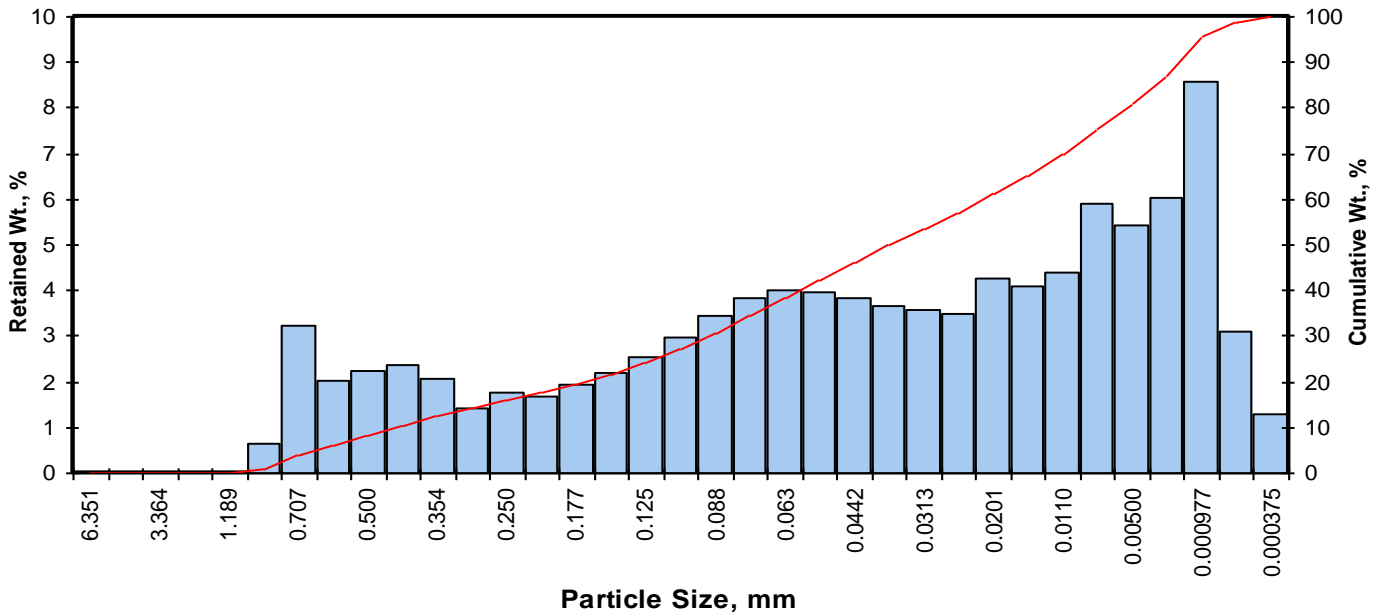
Measure	Trask	Inman	Folk-Ward
Median, phi	4.40	4.40	4.40
Median, in.	0.0019	0.0019	0.0019
Median, mm	0.047	0.047	0.047
Mean, phi	4.38	5.43	5.08
Mean, in.	0.0019	0.0009	0.0012
Mean, mm	0.048	0.023	0.029
Sorting	2.533	2.168	2.299
Skewness	0.695	0.472	0.426
Kurtosis	0.264	0.849	1.226
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.09
Fine Sand	200	27.09
Silt	>0.005 mm	54.13
Clay	<0.005 mm	15.69
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M140D-30.7-31.0
Depth, ft: 30.7-31.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.65	0.65	0.65
0.0278	0.707	0.50	25	3.24	3.24	3.90
0.0234	0.595	0.75	30	2.03	2.03	5.93
0.0197	0.500	1.00	35	2.25	2.25	8.18
0.0166	0.420	1.25	40	2.35	2.35	10.53
0.0139	0.354	1.50	45	2.08	2.08	12.62
0.0117	0.297	1.75	50	1.43	1.43	14.05
0.0098	0.250	2.00	60	1.76	1.76	15.81
0.0083	0.210	2.25	70	1.66	1.66	17.47
0.0070	0.177	2.50	80	1.94	1.94	19.42
0.0059	0.149	2.75	100	2.19	2.19	21.61
0.0049	0.125	3.00	120	2.52	2.52	24.13
0.0041	0.105	3.25	140	2.97	2.97	27.11
0.0035	0.088	3.50	170	3.45	3.45	30.56
0.0029	0.074	3.75	200	3.81	3.81	34.37
0.0025	0.063	4.00	230	3.99	4.00	38.37
0.0021	0.053	4.25	270	3.98	3.99	42.36
0.00174	0.0442	4.50	325	3.82	3.82	46.18
0.00146	0.0372	4.75	400	3.68	3.68	49.86
0.00123	0.0313	5.00	450	3.57	3.57	53.44
0.000986	0.0250	5.32	500	3.48	3.48	56.92
0.000790	0.0201	5.64	635	4.26	4.27	61.19
0.000615	0.0156	6.00		4.08	4.09	65.27
0.000435	0.0110	6.50		4.39	4.40	69.67
0.000308	0.00781	7.00		5.88	5.89	75.56
0.000197	0.00500	7.65		5.41	5.42	80.98
0.000077	0.00195	9.00		6.02	6.03	87.00
0.000038	0.000977	10.00		8.58	8.59	95.59
0.000019	0.000488	11.00		3.09	3.09	98.69
0.000015	0.000375	11.38		1.31	1.31	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.64	0.0253	0.644
10	1.19	0.0172	0.437
16	2.03	0.0097	0.245
25	3.07	0.0047	0.119
40	4.10	0.0023	0.058
50	4.76	0.0015	0.037
60	5.55	0.0008	0.021
75	6.95	0.0003	0.008
84	8.32	0.0001	0.003
90	9.35	0.0001	0.002
95	9.93	0.0000	0.001

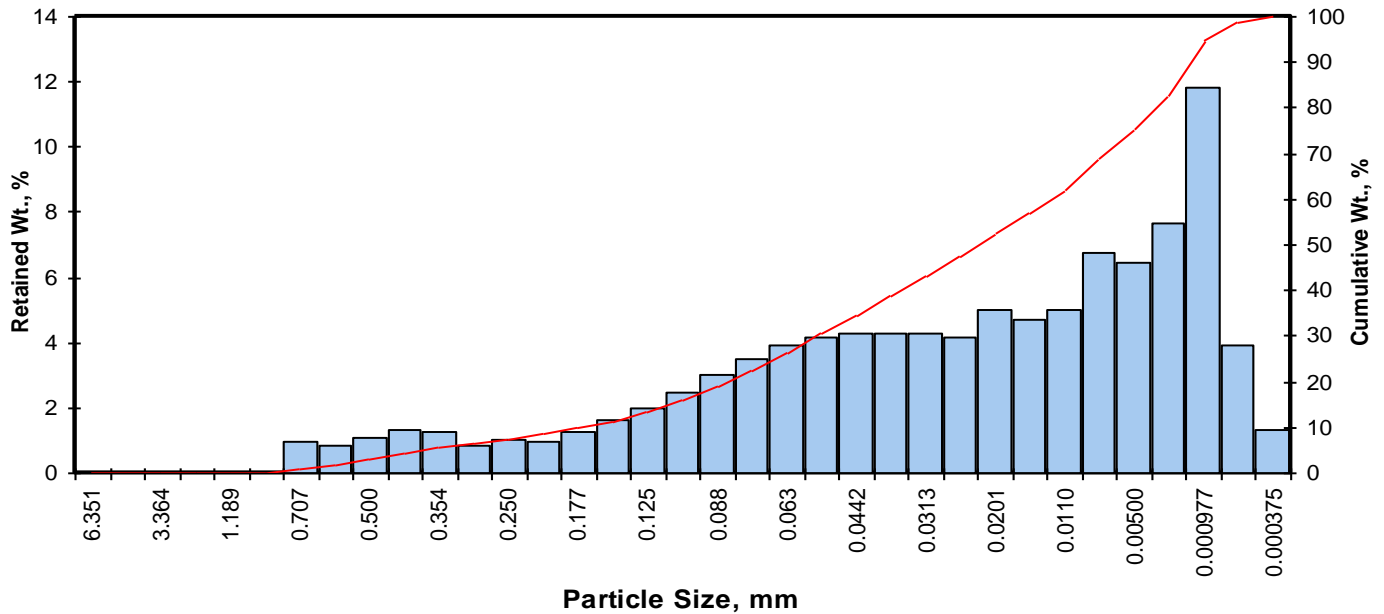
Measure	Trask	Inman	Folk-Ward
Median, phi	4.76	4.76	4.76
Median, in.	0.0015	0.0015	0.0015
Median, mm	0.037	0.037	0.037
Mean, phi	3.98	5.18	5.04
Mean, in.	0.0025	0.0011	0.0012
Mean, mm	0.063	0.028	0.030
Sorting	3.836	3.148	2.982
Skewness	0.839	0.133	0.123
Kurtosis	0.127	0.476	0.982
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	10.53
Fine Sand	200	23.84
Silt	>0.005 mm	46.60
Clay	<0.005 mm	19.02
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M140D-36.0-36.3
Depth, ft: 36.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.03	0.03	0.03
0.0278	0.707	0.50	25	0.98	0.98	1.01
0.0234	0.595	0.75	30	0.83	0.83	1.84
0.0197	0.500	1.00	35	1.09	1.09	2.93
0.0166	0.420	1.25	40	1.35	1.35	4.28
0.0139	0.354	1.50	45	1.29	1.29	5.58
0.0117	0.297	1.75	50	0.87	0.87	6.45
0.0098	0.250	2.00	60	1.02	1.02	7.47
0.0083	0.210	2.25	70	0.99	0.99	8.46
0.0070	0.177	2.50	80	1.28	1.28	9.74
0.0059	0.149	2.75	100	1.60	1.60	11.34
0.0049	0.125	3.00	120	1.99	1.99	13.34
0.0041	0.105	3.25	140	2.48	2.48	15.82
0.0035	0.088	3.50	170	3.02	3.02	18.84
0.0029	0.074	3.75	200	3.51	3.51	22.36
0.0025	0.063	4.00	230	3.91	3.92	26.27
0.0021	0.053	4.25	270	4.16	4.17	30.44
0.00174	0.0442	4.50	325	4.25	4.26	34.69
0.00146	0.0372	4.75	400	4.30	4.31	39.00
0.00123	0.0313	5.00	450	4.26	4.27	43.27
0.000986	0.0250	5.32	500	4.13	4.14	47.40
0.000790	0.0201	5.64	635	4.99	5.00	52.40
0.000615	0.0156	6.00		4.68	4.69	57.08
0.000435	0.0110	6.50		4.98	4.99	62.07
0.000308	0.00781	7.00		6.72	6.73	68.80
0.000197	0.00500	7.65		6.46	6.47	75.27
0.000077	0.00195	9.00		7.68	7.69	82.96
0.000038	0.000977	10.00		11.80	11.82	94.77
0.000019	0.000488	11.00		3.92	3.93	98.70
0.000015	0.000375	11.38		1.30	1.30	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.39	0.0150	0.382
10	2.54	0.0068	0.172
16	3.26	0.0041	0.104
25	3.92	0.0026	0.066
40	4.81	0.0014	0.036
50	5.49	0.0009	0.022
60	6.29	0.0005	0.013
75	7.62	0.0002	0.005
84	9.09	0.0001	0.002
90	9.60	0.0001	0.001
95	10.06	0.0000	0.001

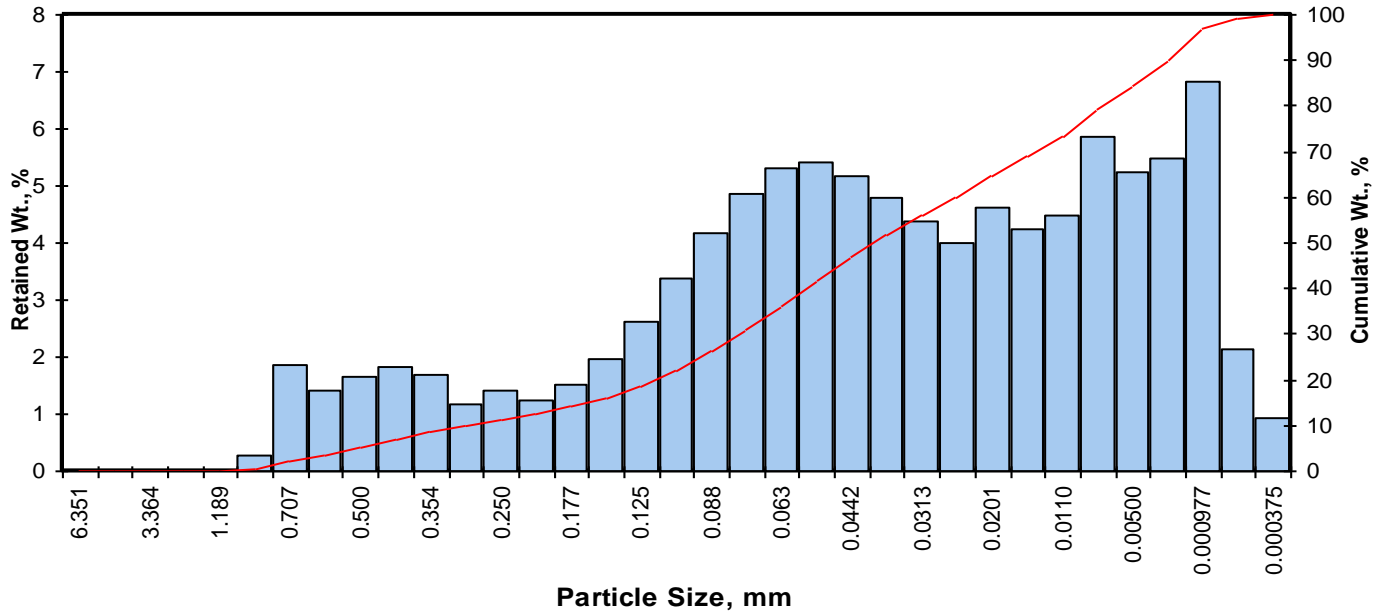
Measure	Trask	Inman	Folk-Ward
Median, phi	5.49	5.49	5.49
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.022	0.022	0.022
Mean, phi	4.81	6.18	5.95
Mean, in.	0.0014	0.0005	0.0006
Mean, mm	0.036	0.014	0.016
Sorting	3.605	2.912	2.769
Skewness	0.822	0.237	0.146
Kurtosis	0.179	0.489	0.960
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	4.28
Fine Sand	200	18.07
Silt	>0.005 mm	52.91
Clay	<0.005 mm	24.73
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M140D-50.0-50.4
Depth, ft: 50.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.26	0.26	0.26
0.0278	0.707	0.50	25	1.85	1.85	2.11
0.0234	0.595	0.75	30	1.40	1.40	3.51
0.0197	0.500	1.00	35	1.66	1.66	5.18
0.0166	0.420	1.25	40	1.83	1.83	7.01
0.0139	0.354	1.50	45	1.69	1.69	8.70
0.0117	0.297	1.75	50	1.18	1.18	9.88
0.0098	0.250	2.00	60	1.40	1.40	11.28
0.0083	0.210	2.25	70	1.25	1.25	12.53
0.0070	0.177	2.50	80	1.53	1.53	14.06
0.0059	0.149	2.75	100	1.97	1.97	16.04
0.0049	0.125	3.00	120	2.62	2.62	18.66
0.0041	0.105	3.25	140	3.39	3.39	22.05
0.0035	0.088	3.50	170	4.17	4.17	26.23
0.0029	0.074	3.75	200	4.84	4.84	31.07
0.0025	0.063	4.00	230	5.29	5.30	36.37
0.0021	0.053	4.25	270	5.40	5.41	41.77
0.00174	0.0442	4.50	325	5.18	5.19	46.96
0.00146	0.0372	4.75	400	4.79	4.79	51.75
0.00123	0.0313	5.00	450	4.36	4.36	56.12
0.000986	0.0250	5.32	500	3.99	3.99	60.11
0.000790	0.0201	5.64	635	4.63	4.63	64.74
0.000615	0.0156	6.00		4.25	4.25	69.00
0.000435	0.0110	6.50		4.47	4.47	73.47
0.000308	0.00781	7.00		5.87	5.88	79.35
0.000197	0.00500	7.65		5.23	5.24	84.58
0.000077	0.00195	9.00		5.49	5.50	90.08
0.000038	0.000977	10.00		6.83	6.84	96.92
0.000019	0.000488	11.00		2.15	2.15	99.07
0.000015	0.000375	11.38		0.93	0.93	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.97	0.0200	0.509
10	1.77	0.0115	0.293
16	2.75	0.0059	0.149
25	3.43	0.0037	0.093
40	4.17	0.0022	0.056
50	4.66	0.0016	0.040
60	5.31	0.0010	0.025
75	6.63	0.0004	0.010
84	7.57	0.0002	0.005
90	8.98	0.0001	0.002
95	9.72	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.66	4.66	4.66
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.040	0.040	0.040
Mean, phi	4.28	5.16	4.99
Mean, in.	0.0020	0.0011	0.0012
Mean, mm	0.052	0.028	0.031
Sorting	3.035	2.414	2.532
Skewness	0.774	0.207	0.182
Kurtosis	0.142	0.812	1.119
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.01
Fine Sand	200	24.06
Silt	>0.005 mm	53.51
Clay	<0.005 mm	15.42
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3

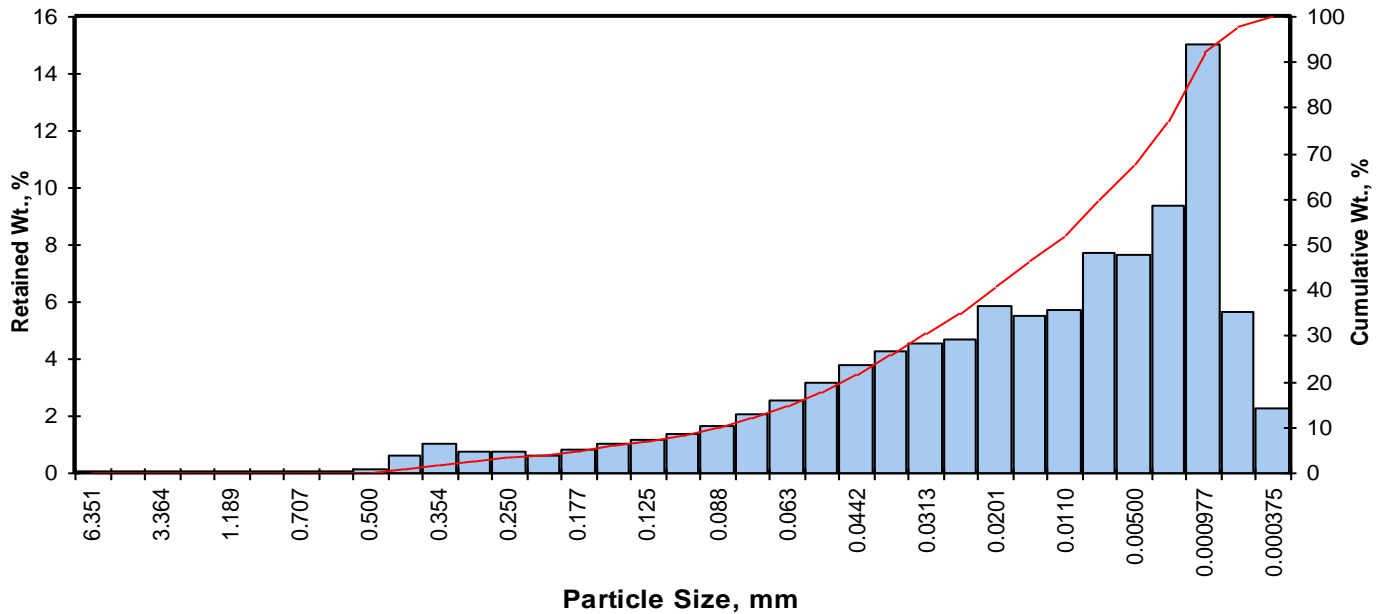
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-M140D-64.2-64.5	64.3	Silt	0.013	0.00	0.00	0.77	11.31	55.55	32.37	87.92
PT-M5D-41.5-41.8	41.6	Silt	0.023	0.00	0.00	6.02	20.19	48.98	24.81	73.79
PT-M5D-64.0-64.3	64.1	Silt	0.021	0.00	0.00	7.38	18.33	50.08	24.21	74.29
PT-M5D-69.7-70.0	69.7-70.0	Fine sand	0.171	0.00	0.00	31.66	31.44	27.88	9.03	36.91
PT-RIDB8-33.4-33.7	33.5	Medium sand	0.326	0.00	0.00	48.06	13.44	23.74	14.76	38.50
PT-RIDB8-36.3-36.6	36.4	Silt	0.035	0.00	0.00	9.62	23.65	45.24	21.49	66.73
PT-RIDB8-64.5-64.8	64.6	Fine sand	0.027	0.00	0.00	15.86	18.73	43.49	21.92	65.41
PT-RIDB8-76.1-76.4	76.2	Fine sand	0.017	0.00	0.00	18.09	11.61	38.95	31.35	70.30
PT-RIDB9-33.5-33.8	33.6	Silt	0.024	0.00	0.00	5.06	21.90	48.95	24.09	73.04
PT-RIDB9-64.0-64.3	64.0-64.3	Fine sand	0.057	0.00	0.00	20.74	23.87	40.41	14.99	55.39
PT-RIDB9-65.0-65.3	65.1	Silt	0.006	0.00	0.00	0.00	10.24	41.80	47.96	89.76
PT-RIDB9-74.2-74.5	74.2-74.5	Silt	0.036	0.00	0.00	8.07	30.56	36.16	25.21	61.37
PT-RIDB9-82.1-82.4	82.2	Medium sand	0.049	0.00	0.00	41.91	4.55	29.90	23.64	53.54
PT-RIDB10-36.0-36.3	36.0-36.3	Silt	0.017	0.00	0.00	0.66	18.04	54.66	26.64	81.31

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M140D-64.2-64.5
Depth, ft: 64.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.13	0.13	0.14
0.0166	0.420	1.25	40	0.63	0.63	0.77
0.0139	0.354	1.50	45	1.02	1.02	1.79
0.0117	0.297	1.75	50	0.75	0.75	2.55
0.0098	0.250	2.00	60	0.76	0.76	3.31
0.0083	0.210	2.25	70	0.64	0.64	3.95
0.0070	0.177	2.50	80	0.84	0.84	4.79
0.0059	0.149	2.75	100	1.03	1.03	5.82
0.0049	0.125	3.00	120	1.15	1.15	6.98
0.0041	0.105	3.25	140	1.35	1.35	8.33
0.0035	0.088	3.50	170	1.68	1.68	10.01
0.0029	0.074	3.75	200	2.06	2.06	12.08
0.0025	0.063	4.00	230	2.55	2.56	14.63
0.0021	0.053	4.25	270	3.16	3.17	17.80
0.00174	0.0442	4.50	325	3.77	3.78	21.58
0.00146	0.0372	4.75	400	4.26	4.27	25.85
0.00123	0.0313	5.00	450	4.55	4.56	30.41
0.000986	0.0250	5.32	500	4.69	4.70	35.11
0.000790	0.0201	5.64	635	5.88	5.89	41.00
0.000615	0.0156	6.00		5.50	5.51	46.52
0.000435	0.0110	6.50		5.71	5.72	52.24
0.000308	0.00781	7.00		7.72	7.74	59.98
0.000197	0.00500	7.65		7.63	7.65	67.63
0.000077	0.00195	9.00		9.37	9.39	77.02
0.000038	0.000977	10.00		15.00	15.03	92.05
0.000019	0.000488	11.00		5.64	5.65	97.70
0.000015	0.000375	11.38		2.29	2.30	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.55	0.0067	0.171
10	3.50	0.0035	0.089
16	4.11	0.0023	0.058
25	4.70	0.0015	0.038
40	5.59	0.0008	0.021
50	6.30	0.0005	0.013
60	7.00	0.0003	0.008
75	8.71	0.0001	0.002
84	9.46	0.0001	0.001
90	9.86	0.0000	0.001
95	10.52	0.0000	0.001

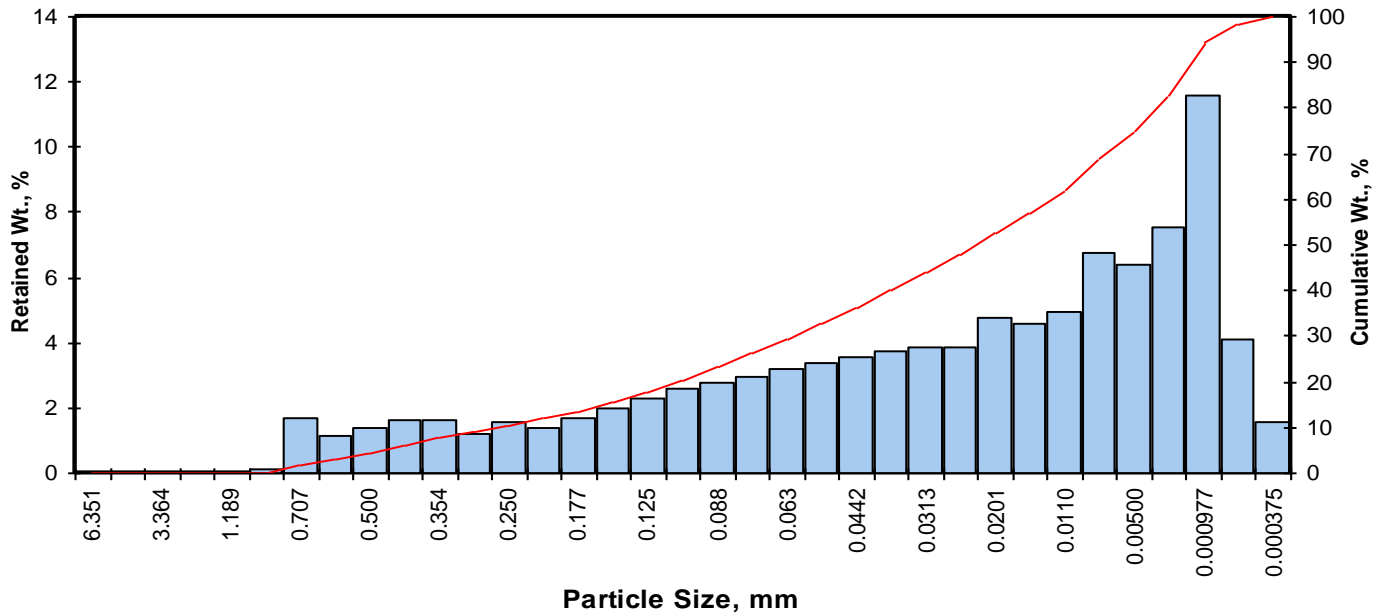
Measure	Trask	Inman	Folk-Ward
Median, phi	6.30	6.30	6.30
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.013	0.013	0.013
Mean, phi	5.61	6.79	6.63
Mean, in.	0.0008	0.0004	0.0004
Mean, mm	0.020	0.009	0.010
Sorting	4.012	2.678	2.547
Skewness	0.758	0.180	0.119
Kurtosis	0.206	0.488	0.815
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.77
Fine Sand	200	11.31
Silt	>0.005 mm	55.55
Clay	<0.005 mm	32.37
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M5D-41.5-41.8
Depth, ft: 41.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.15	0.15	0.15
0.0278	0.707	0.50	25	1.70	1.70	1.85
0.0234	0.595	0.75	30	1.16	1.16	3.01
0.0197	0.500	1.00	35	1.37	1.37	4.39
0.0166	0.420	1.25	40	1.63	1.63	6.02
0.0139	0.354	1.50	45	1.65	1.65	7.67
0.0117	0.297	1.75	50	1.23	1.23	8.90
0.0098	0.250	2.00	60	1.54	1.54	10.44
0.0083	0.210	2.25	70	1.41	1.41	11.86
0.0070	0.177	2.50	80	1.68	1.68	13.54
0.0059	0.149	2.75	100	2.00	2.00	15.54
0.0049	0.125	3.00	120	2.32	2.32	17.87
0.0041	0.105	3.25	140	2.57	2.57	20.44
0.0035	0.088	3.50	170	2.78	2.78	23.22
0.0029	0.074	3.75	200	2.98	2.98	26.21
0.0025	0.063	4.00	230	3.18	3.18	29.39
0.0021	0.053	4.25	270	3.38	3.38	32.78
0.00174	0.0442	4.50	325	3.55	3.55	36.33
0.00146	0.0372	4.75	400	3.73	3.74	40.07
0.00123	0.0313	5.00	450	3.84	3.85	43.91
0.000986	0.0250	5.32	500	3.84	3.85	47.76
0.000790	0.0201	5.64	635	4.74	4.75	52.50
0.000615	0.0156	6.00		4.57	4.58	57.08
0.000435	0.0110	6.50		4.95	4.96	62.04
0.000308	0.00781	7.00		6.72	6.73	68.77
0.000197	0.00500	7.65		6.41	6.42	75.19
0.000077	0.00195	9.00		7.54	7.55	82.74
0.000038	0.000977	10.00		11.60	11.62	94.35
0.000019	0.000488	11.00		4.10	4.11	98.46
0.000015	0.000375	11.38		1.54	1.54	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.09	0.0184	0.468
10	1.93	0.0103	0.263
16	2.80	0.0057	0.144
25	3.65	0.0031	0.080
40	4.75	0.0015	0.037
50	5.47	0.0009	0.023
60	6.29	0.0005	0.013
75	7.63	0.0002	0.005
84	9.11	0.0001	0.002
90	9.63	0.0000	0.001
95	10.16	0.0000	0.001

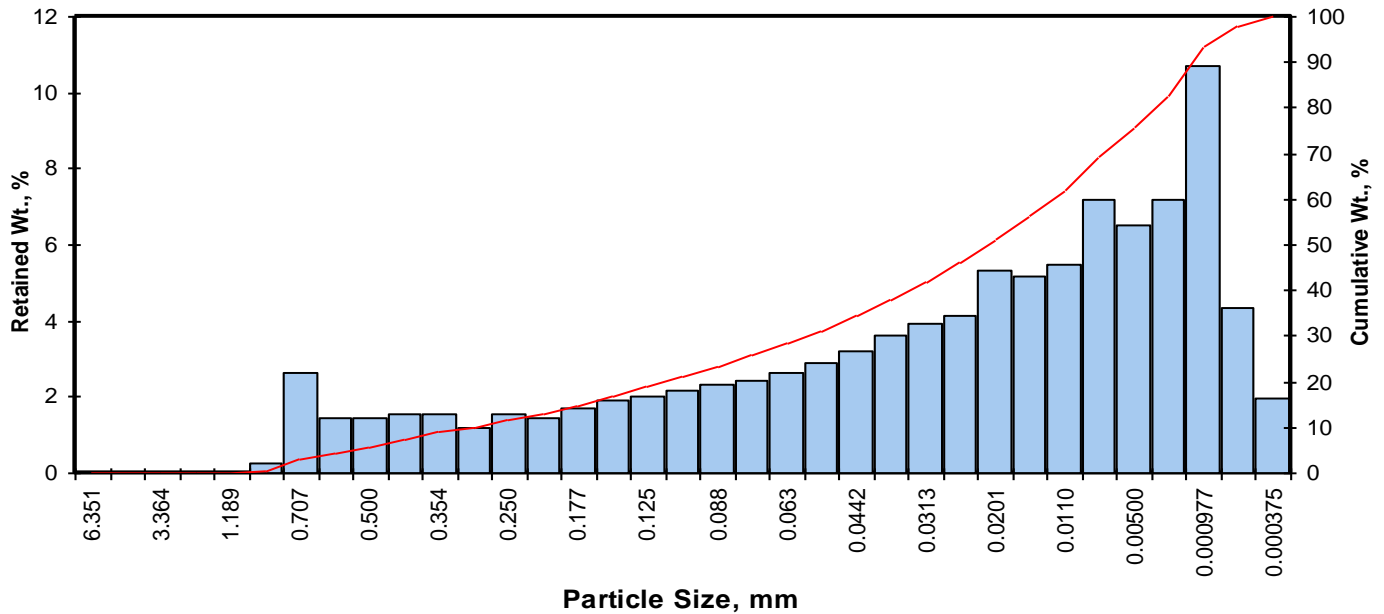
Measure	Trask	Inman	Folk-Ward
Median, phi	5.47	5.47	5.47
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.023	0.023	0.023
Mean, phi	4.56	5.95	5.79
Mean, in.	0.0017	0.0006	0.0007
Mean, mm	0.042	0.016	0.018
Sorting	3.969	3.155	2.951
Skewness	0.891	0.153	0.094
Kurtosis	0.143	0.437	0.934
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	6.02
Fine Sand	200	20.19
Silt	>0.005 mm	48.98
Clay	<0.005 mm	24.81
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M5D-64.0-64.3
 Depth, ft: 64.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.28	0.28	0.28
0.0278	0.707	0.50	25	2.63	2.63	2.91
0.0234	0.595	0.75	30	1.44	1.44	4.36
0.0197	0.500	1.00	35	1.45	1.45	5.81
0.0166	0.420	1.25	40	1.57	1.57	7.38
0.0139	0.354	1.50	45	1.55	1.55	8.93
0.0117	0.297	1.75	50	1.18	1.18	10.11
0.0098	0.250	2.00	60	1.54	1.54	11.66
0.0083	0.210	2.25	70	1.46	1.46	13.12
0.0070	0.177	2.50	80	1.72	1.72	14.84
0.0059	0.149	2.75	100	1.91	1.91	16.75
0.0049	0.125	3.00	120	2.04	2.04	18.80
0.0041	0.105	3.25	140	2.17	2.17	20.97
0.0035	0.088	3.50	170	2.30	2.30	23.27
0.0029	0.074	3.75	200	2.43	2.43	25.71
0.0025	0.063	4.00	230	2.61	2.61	28.32
0.0021	0.053	4.25	270	2.87	2.87	31.19
0.00174	0.0442	4.50	325	3.19	3.19	34.39
0.00146	0.0372	4.75	400	3.60	3.61	37.99
0.00123	0.0313	5.00	450	3.94	3.95	41.94
0.000986	0.0250	5.32	500	4.14	4.15	46.08
0.000790	0.0201	5.64	635	5.31	5.32	51.40
0.000615	0.0156	6.00		5.16	5.17	56.57
0.000435	0.0110	6.50		5.50	5.51	62.08
0.000308	0.00781	7.00		7.20	7.21	69.29
0.000197	0.00500	7.65		6.49	6.50	75.79
0.000077	0.00195	9.00		7.17	7.18	82.97
0.000038	0.000977	10.00		10.70	10.72	93.68
0.000019	0.000488	11.00		4.33	4.34	98.02
0.000015	0.000375	11.38		1.98	1.98	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.86	0.0217	0.551
10	1.73	0.0119	0.302
16	2.65	0.0063	0.159
25	3.68	0.0031	0.078
40	4.88	0.0013	0.034
50	5.56	0.0008	0.021
60	6.31	0.0005	0.013
75	7.57	0.0002	0.005
84	9.10	0.0001	0.002
90	9.66	0.0000	0.001
95	10.30	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.56	5.56	5.56
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	4.58	5.87	5.77
Mean, in.	0.0016	0.0007	0.0007
Mean, mm	0.042	0.017	0.018
Sorting	3.850	3.222	3.042
Skewness	0.955	0.099	0.052
Kurtosis	0.121	0.465	0.995

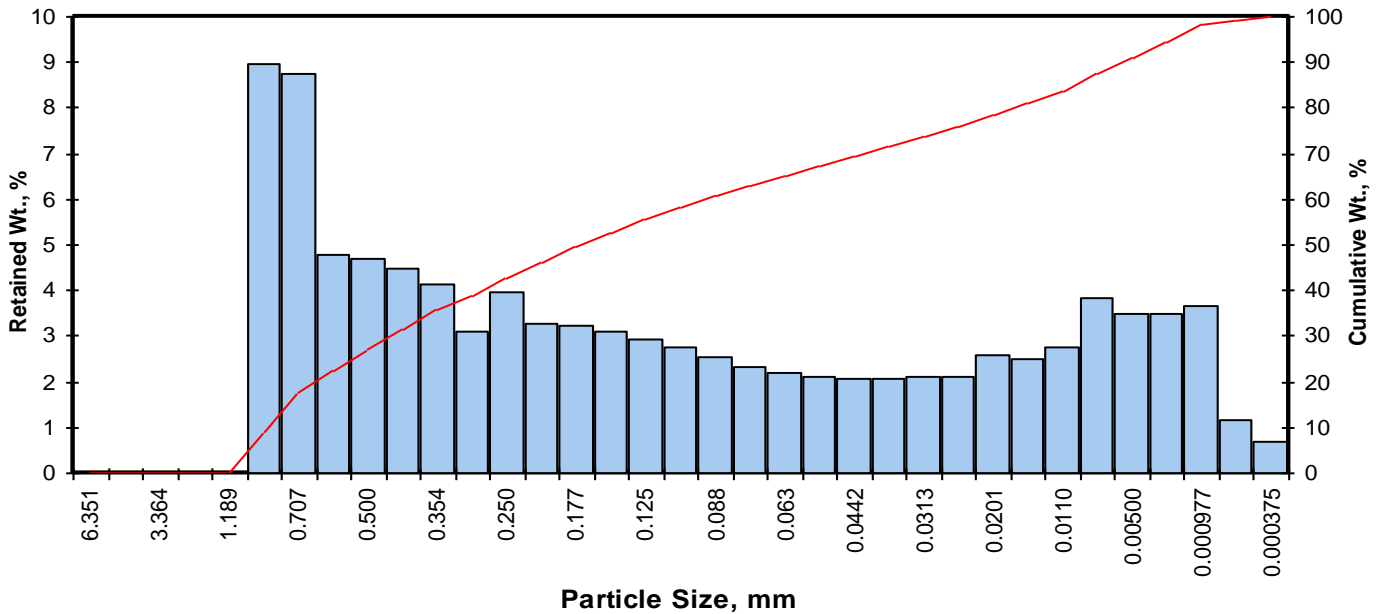
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.38
Fine Sand	200	18.33
Silt	>0.005 mm	50.08
Clay	<0.005 mm	24.21
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M5D-69.7-70.0
Depth, ft: 69.7-70.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	8.95	8.96	8.96
0.0278	0.707	0.50	25	8.74	8.75	17.70
0.0234	0.595	0.75	30	4.76	4.76	22.47
0.0197	0.500	1.00	35	4.68	4.68	27.15
0.0166	0.420	1.25	40	4.50	4.50	31.66
0.0139	0.354	1.50	45	4.12	4.12	35.78
0.0117	0.297	1.75	50	3.11	3.11	38.89
0.0098	0.250	2.00	60	3.96	3.96	42.85
0.0083	0.210	2.25	70	3.28	3.28	46.14
0.0070	0.177	2.50	80	3.24	3.24	49.38
0.0059	0.149	2.75	100	3.12	3.12	52.50
0.0049	0.125	3.00	120	2.95	2.95	55.45
0.0041	0.105	3.25	140	2.75	2.75	58.21
0.0035	0.088	3.50	170	2.54	2.54	60.75
0.0029	0.074	3.75	200	2.34	2.34	63.09
0.0025	0.063	4.00	230	2.20	2.20	65.29
0.0021	0.053	4.25	270	2.12	2.12	67.41
0.00174	0.0442	4.50	325	2.07	2.07	69.49
0.00146	0.0372	4.75	400	2.08	2.08	71.57
0.00123	0.0313	5.00	450	2.10	2.10	73.67
0.000986	0.0250	5.32	500	2.09	2.09	75.76
0.000790	0.0201	5.64	635	2.59	2.59	78.35
0.000615	0.0156	6.00		2.50	2.50	80.85
0.000435	0.0110	6.50		2.76	2.76	83.62
0.000308	0.00781	7.00		3.85	3.85	87.47
0.000197	0.00500	7.65		3.50	3.50	90.97
0.000077	0.00195	9.00		3.51	3.51	94.49
0.000038	0.000977	10.00		3.67	3.67	98.16
0.000019	0.000488	11.00		1.15	1.15	99.31
0.000015	0.000375	11.38		0.69	0.69	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.03	0.0386	0.980
10	0.28	0.0324	0.824
16	0.45	0.0288	0.731
25	0.89	0.0213	0.541
40	1.82	0.0112	0.283
50	2.55	0.0067	0.171
60	3.43	0.0037	0.093
75	5.20	0.0011	0.027
84	6.55	0.0004	0.011
90	7.47	0.0002	0.006
95	9.14	0.0001	0.002

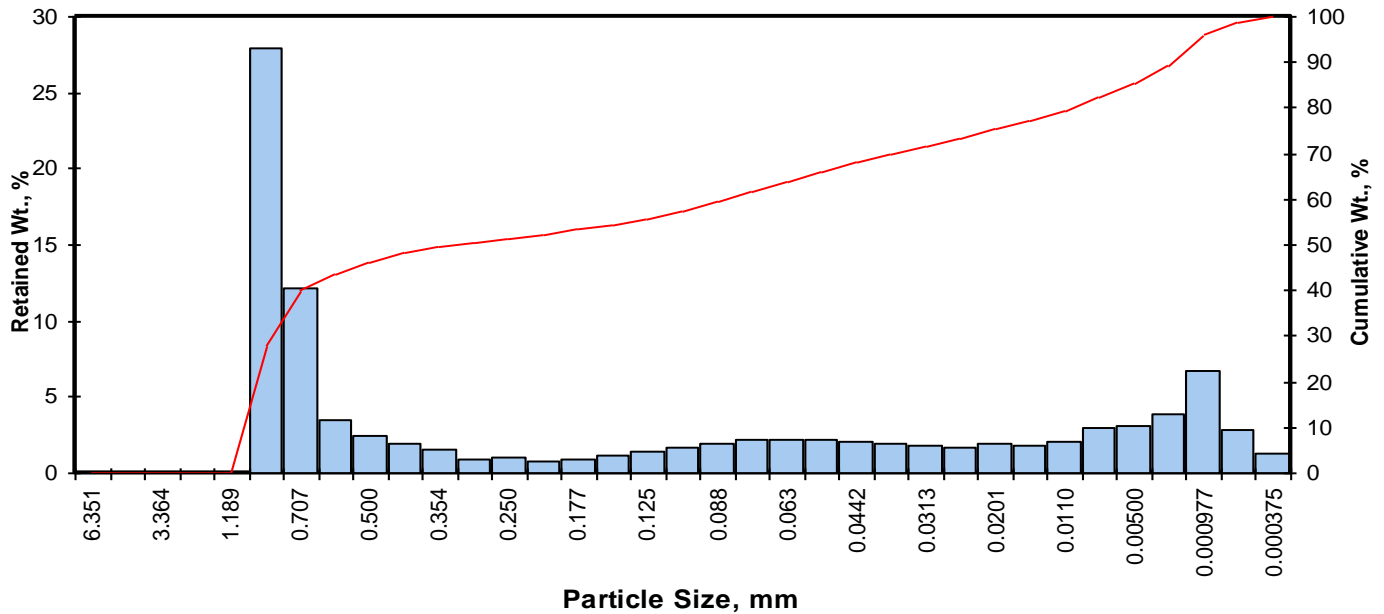
Measure	Trask	Inman	Folk-Ward
Median, phi	2.55	2.55	2.55
Median, in.	0.0067	0.0067	0.0067
Median, mm	0.171	0.171	0.171
Mean, phi	1.81	3.50	3.18
Mean, in.	0.0112	0.0035	0.0043
Mean, mm	0.284	0.088	0.110
Sorting	4.467	3.049	2.905
Skewness	0.710	0.312	0.379
Kurtosis	0.314	0.494	0.865
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	31.66
Fine Sand	200	31.44
Silt	>0.005 mm	27.88
Clay	<0.005 mm	9.03
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB8-33.4-33.7
Depth, ft: 33.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	27.90	27.94	27.94
0.0278	0.707	0.50	25	12.20	12.22	40.15
0.0234	0.595	0.75	30	3.51	3.51	43.67
0.0197	0.500	1.00	35	2.48	2.48	46.15
0.0166	0.420	1.25	40	1.91	1.91	48.06
0.0139	0.354	1.50	45	1.49	1.49	49.55
0.0117	0.297	1.75	50	0.94	0.94	50.50
0.0098	0.250	2.00	60	1.00	1.00	51.50
0.0083	0.210	2.25	70	0.83	0.83	52.33
0.0070	0.177	2.50	80	0.95	0.95	53.28
0.0059	0.149	2.75	100	1.12	1.12	54.40
0.0049	0.125	3.00	120	1.36	1.36	55.76
0.0041	0.105	3.25	140	1.65	1.65	57.41
0.0035	0.088	3.50	170	1.94	1.94	59.36
0.0029	0.074	3.75	200	2.14	2.14	61.50
0.0025	0.063	4.00	230	2.22	2.22	63.72
0.0021	0.053	4.25	270	2.16	2.16	65.89
0.00174	0.0442	4.50	325	2.02	2.02	67.91
0.00146	0.0372	4.75	400	1.90	1.90	69.81
0.00123	0.0313	5.00	450	1.80	1.80	71.61
0.000986	0.0250	5.32	500	1.69	1.69	73.31
0.000790	0.0201	5.64	635	1.98	1.98	75.29
0.000615	0.0156	6.00		1.86	1.86	77.15
0.000435	0.0110	6.50		2.06	2.06	79.21
0.000308	0.00781	7.00		2.96	2.96	82.18
0.000197	0.00500	7.65		3.06	3.06	85.24
0.000077	0.00195	9.00		3.90	3.91	89.15
0.000038	0.000977	10.00		6.77	6.78	95.92
0.000019	0.000488	11.00		2.84	2.84	98.77
0.000015	0.000375	11.38		1.23	1.23	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.16	0.0440	1.118
10	-0.07	0.0414	1.050
16	0.04	0.0384	0.975
25	0.20	0.0343	0.872
40	0.50	0.0279	0.709
50	1.62	0.0128	0.326
60	3.58	0.0033	0.084
75	5.59	0.0008	0.021
84	7.38	0.0002	0.006
90	9.13	0.0001	0.002
95	9.86	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	1.62	1.62	1.62
Median, in.	0.0128	0.0128	0.0128
Median, mm	0.326	0.326	0.326
Mean, phi	1.16	3.71	3.01
Mean, in.	0.0176	0.0030	0.0049
Mean, mm	0.446	0.076	0.124
Sorting	6.489	3.674	3.356
Skewness	0.413	0.569	0.607
Kurtosis	0.406	0.364	0.761

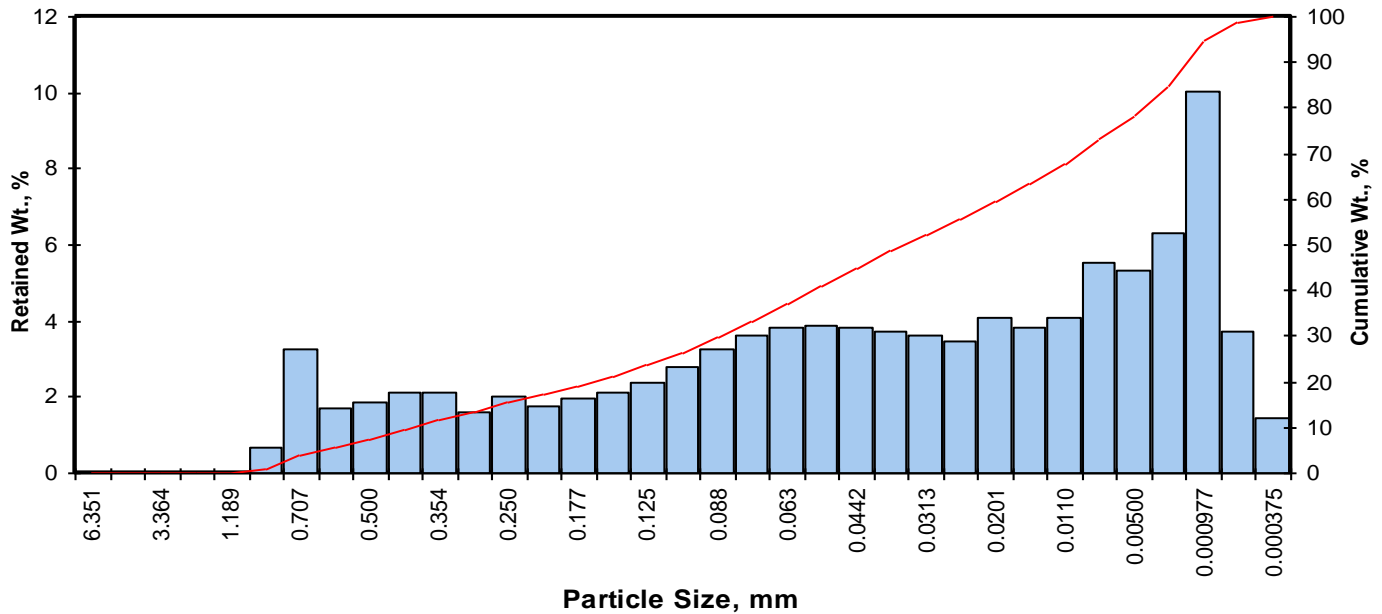
Grain Size Description Medium sand
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	48.06
Fine Sand	200	13.44
Silt	>0.005 mm	23.74
Clay	<0.005 mm	14.76
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB8-36.3-36.6
Depth, ft: 36.4

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.69	0.69	0.69
0.0278	0.707	0.50	25	3.25	3.25	3.95
0.0234	0.595	0.75	30	1.72	1.72	5.67
0.0197	0.500	1.00	35	1.85	1.85	7.52
0.0166	0.420	1.25	40	2.10	2.10	9.62
0.0139	0.354	1.50	45	2.11	2.11	11.74
0.0117	0.297	1.75	50	1.60	1.60	13.34
0.0098	0.250	2.00	60	2.03	2.03	15.37
0.0083	0.210	2.25	70	1.78	1.78	17.15
0.0070	0.177	2.50	80	1.95	1.95	19.10
0.0059	0.149	2.75	100	2.12	2.12	21.23
0.0049	0.125	3.00	120	2.39	2.39	23.62
0.0041	0.105	3.25	140	2.79	2.79	26.41
0.0035	0.088	3.50	170	3.24	3.24	29.66
0.0029	0.074	3.75	200	3.61	3.61	33.27
0.0025	0.063	4.00	230	3.83	3.83	37.11
0.0021	0.053	4.25	270	3.88	3.89	40.99
0.00174	0.0442	4.50	325	3.81	3.81	44.81
0.00146	0.0372	4.75	400	3.72	3.72	48.53
0.00123	0.0313	5.00	450	3.60	3.60	52.14
0.000986	0.0250	5.32	500	3.44	3.44	55.58
0.000790	0.0201	5.64	635	4.10	4.11	59.69
0.000615	0.0156	6.00		3.84	3.84	63.53
0.000435	0.0110	6.50		4.10	4.11	67.64
0.000308	0.00781	7.00		5.55	5.56	73.20
0.000197	0.00500	7.65		5.31	5.32	78.51
0.000077	0.00195	9.00		6.29	6.30	84.81
0.000038	0.000977	10.00		10.00	10.01	94.82
0.000019	0.000488	11.00		3.74	3.74	98.57
0.000015	0.000375	11.38		1.43	1.43	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.65	0.0250	0.636
10	1.29	0.0160	0.408
16	2.09	0.0093	0.235
25	3.12	0.0045	0.115
40	4.19	0.0022	0.055
50	4.85	0.0014	0.035
60	5.67	0.0008	0.020
75	7.22	0.0003	0.007
84	8.83	0.0001	0.002
90	9.52	0.0001	0.001
95	10.05	0.0000	0.001

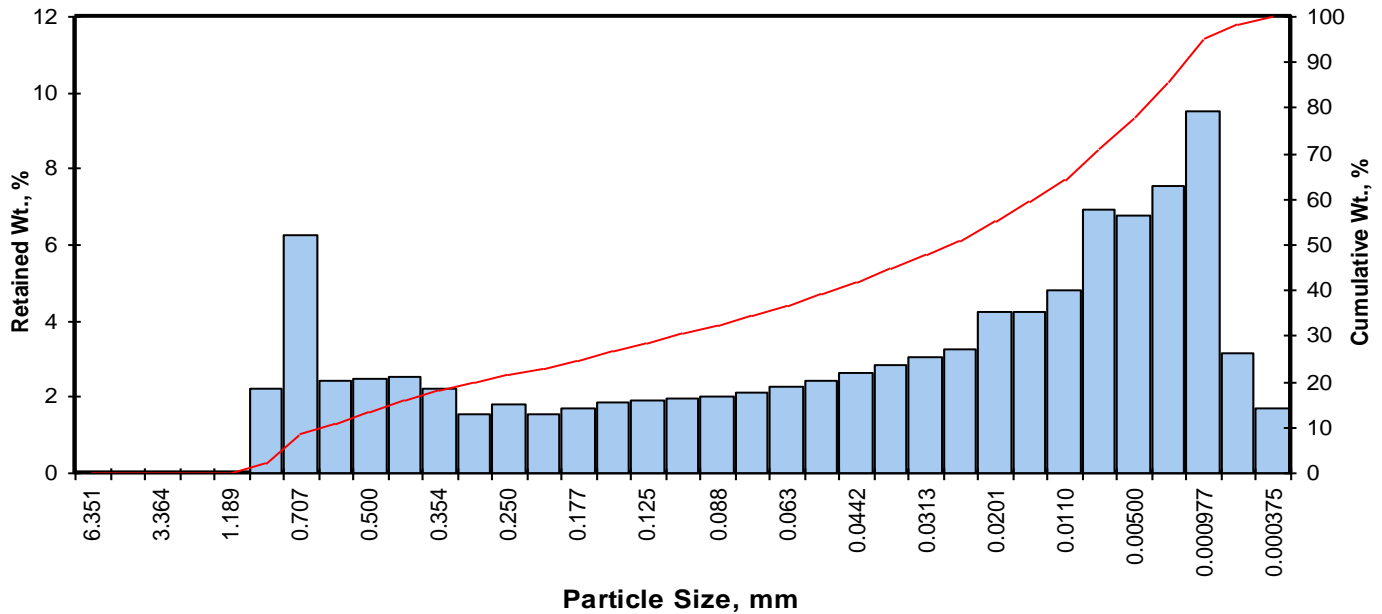
Measure	Trask	Inman	Folk-Ward
Median, phi	4.85	4.85	4.85
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.035	0.035	0.035
Mean, phi	4.04	5.46	5.26
Mean, in.	0.0024	0.0009	0.0010
Mean, mm	0.061	0.023	0.026
Sorting	4.135	3.369	3.108
Skewness	0.801	0.180	0.143
Kurtosis	0.133	0.394	0.940
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	9.62
Fine Sand	200	23.65
Silt	>0.005 mm	45.24
Clay	<0.005 mm	21.49
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB8-64.5-64.8
Depth, ft: 64.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	2.20	2.20	2.20
0.0278	0.707	0.50	25	6.24	6.25	8.46
0.0234	0.595	0.75	30	2.41	2.41	10.87
0.0197	0.500	1.00	35	2.46	2.46	13.33
0.0166	0.420	1.25	40	2.52	2.52	15.86
0.0139	0.354	1.50	45	2.23	2.23	18.09
0.0117	0.297	1.75	50	1.53	1.53	19.63
0.0098	0.250	2.00	60	1.81	1.81	21.44
0.0083	0.210	2.25	70	1.56	1.56	23.00
0.0070	0.177	2.50	80	1.71	1.71	24.71
0.0059	0.149	2.75	100	1.84	1.84	26.56
0.0049	0.125	3.00	120	1.92	1.92	28.48
0.0041	0.105	3.25	140	1.97	1.97	30.45
0.0035	0.088	3.50	170	2.02	2.02	32.48
0.0029	0.074	3.75	200	2.11	2.11	34.59
0.0025	0.063	4.00	230	2.25	2.25	36.85
0.0021	0.053	4.25	270	2.43	2.43	39.28
0.00174	0.0442	4.50	325	2.61	2.61	41.90
0.00146	0.0372	4.75	400	2.85	2.86	44.75
0.00123	0.0313	5.00	450	3.07	3.08	47.83
0.000986	0.0250	5.32	500	3.23	3.24	51.06
0.000790	0.0201	5.64	635	4.21	4.22	55.28
0.000615	0.0156	6.00		4.25	4.26	59.54
0.000435	0.0110	6.50		4.82	4.83	64.37
0.000308	0.00781	7.00		6.94	6.95	71.32
0.000197	0.00500	7.65		6.75	6.76	78.08
0.000077	0.00195	9.00		7.52	7.53	85.61
0.000038	0.000977	10.00		9.52	9.54	95.15
0.000019	0.000488	11.00		3.16	3.17	98.32
0.000015	0.000375	11.38		1.68	1.68	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.36	0.0306	0.778
10	0.66	0.0249	0.633
16	1.27	0.0164	0.416
25	2.54	0.0068	0.172
40	4.32	0.0020	0.050
50	5.21	0.0011	0.027
60	6.05	0.0006	0.015
75	7.35	0.0002	0.006
84	8.71	0.0001	0.002
90	9.46	0.0001	0.001
95	9.98	0.0000	0.001

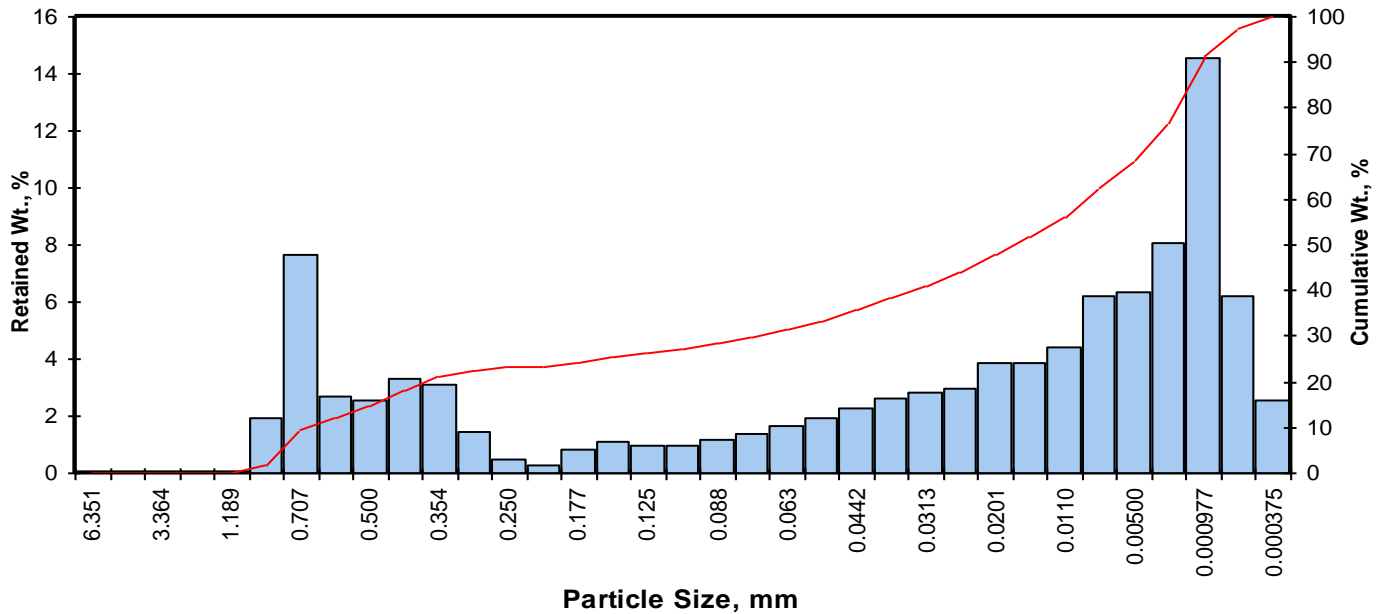
Measure	Trask	Inman	Folk-Ward
Median, phi	5.21	5.21	5.21
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	3.49	4.99	5.06
Mean, in.	0.0035	0.0012	0.0012
Mean, mm	0.089	0.032	0.030
Sorting	5.301	3.722	3.319
Skewness	1.206	-0.061	-0.035
Kurtosis	0.131	0.293	0.819
Grain Size Description		Fine sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	15.86
Fine Sand	200	18.73
Silt	>0.005 mm	43.49
Clay	<0.005 mm	21.92
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB8-76.1-76.4
Depth, ft: 76.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	1.92	1.92	1.92
0.0278	0.707	0.50	25	7.62	7.64	9.56
0.0234	0.595	0.75	30	2.67	2.68	12.23
0.0197	0.500	1.00	35	2.55	2.56	14.79
0.0166	0.420	1.25	40	3.29	3.30	18.09
0.0139	0.354	1.50	45	3.09	3.10	21.18
0.0117	0.297	1.75	50	1.43	1.43	22.62
0.0098	0.250	2.00	60	0.47	0.47	23.09
0.0083	0.210	2.25	70	0.26	0.26	23.35
0.0070	0.177	2.50	80	0.80	0.80	24.15
0.0059	0.149	2.75	100	1.09	1.09	25.24
0.0049	0.125	3.00	120	0.94	0.94	26.18
0.0041	0.105	3.25	140	0.94	0.94	27.12
0.0035	0.088	3.50	170	1.16	1.16	28.29
0.0029	0.074	3.75	200	1.41	1.41	29.70
0.0025	0.063	4.00	230	1.66	1.66	31.36
0.0021	0.053	4.25	270	1.94	1.94	33.31
0.00174	0.0442	4.50	325	2.25	2.25	35.56
0.00146	0.0372	4.75	400	2.59	2.60	38.16
0.00123	0.0313	5.00	450	2.84	2.85	41.00
0.000986	0.0250	5.32	500	2.98	2.99	43.99
0.000790	0.0201	5.64	635	3.83	3.84	47.83
0.000615	0.0156	6.00		3.88	3.89	51.71
0.000435	0.0110	6.50		4.39	4.40	56.11
0.000308	0.00781	7.00		6.21	6.22	62.33
0.000197	0.00500	7.65		6.30	6.31	68.65
0.000077	0.00195	9.00		8.03	8.05	76.69
0.000038	0.000977	10.00		14.50	14.53	91.22
0.000019	0.000488	11.00		6.20	6.21	97.43
0.000015	0.000375	11.38		2.56	2.57	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.35	0.0309	0.784
10	0.54	0.0271	0.687
16	1.09	0.0185	0.469
25	2.69	0.0061	0.154
40	4.91	0.0013	0.033
50	5.84	0.0007	0.017
60	6.81	0.0004	0.009
75	8.71	0.0001	0.002
84	9.50	0.0001	0.001
90	9.92	0.0000	0.001
95	10.61	0.0000	0.001

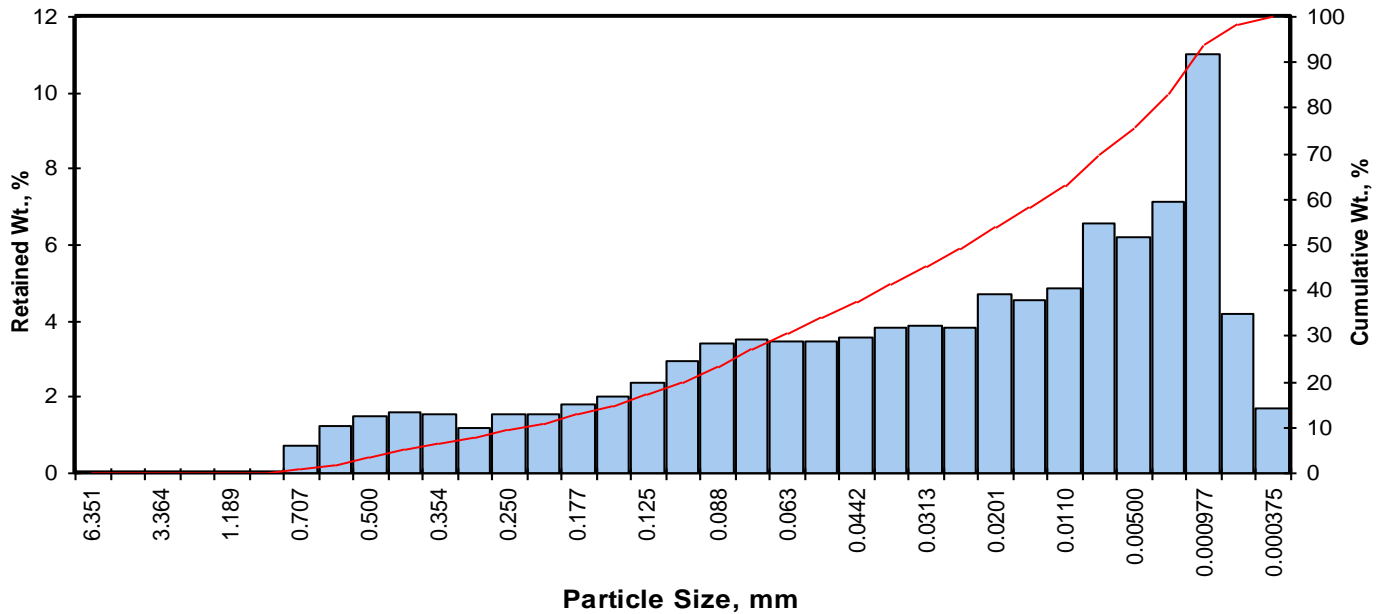
Measure	Trask	Inman	Folk-Ward
Median, phi	5.84	5.84	5.84
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	3.67	5.30	5.48
Mean, in.	0.0031	0.0010	0.0009
Mean, mm	0.078	0.025	0.022
Sorting	8.055	4.206	3.657
Skewness	1.099	-0.129	-0.100
Kurtosis	0.111	0.220	0.698
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	18.09
Fine Sand	200	11.61
Silt	>0.005 mm	38.95
Clay	<0.005 mm	31.35
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB9-33.5-33.8
Depth, ft: 33.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.71	0.71	0.71
0.0234	0.595	0.75	30	1.22	1.22	1.93
0.0197	0.500	1.00	35	1.50	1.50	3.44
0.0166	0.420	1.25	40	1.62	1.62	5.06
0.0139	0.354	1.50	45	1.56	1.56	6.62
0.0117	0.297	1.75	50	1.18	1.18	7.80
0.0098	0.250	2.00	60	1.57	1.57	9.37
0.0083	0.210	2.25	70	1.54	1.54	10.92
0.0070	0.177	2.50	80	1.80	1.80	12.72
0.0059	0.149	2.75	100	2.00	2.00	14.72
0.0049	0.125	3.00	120	2.36	2.36	17.08
0.0041	0.105	3.25	140	2.93	2.93	20.02
0.0035	0.088	3.50	170	3.40	3.40	23.42
0.0029	0.074	3.75	200	3.53	3.53	26.96
0.0025	0.063	4.00	230	3.46	3.46	30.42
0.0021	0.053	4.25	270	3.44	3.44	33.87
0.00174	0.0442	4.50	325	3.58	3.58	37.45
0.00146	0.0372	4.75	400	3.81	3.81	41.26
0.00123	0.0313	5.00	450	3.89	3.90	45.16
0.000986	0.0250	5.32	500	3.83	3.83	48.99
0.000790	0.0201	5.64	635	4.70	4.71	53.70
0.000615	0.0156	6.00		4.53	4.54	58.24
0.000435	0.0110	6.50		4.88	4.89	63.12
0.000308	0.00781	7.00		6.58	6.59	69.71
0.000197	0.00500	7.65		6.19	6.20	75.91
0.000077	0.00195	9.00		7.15	7.16	83.07
0.000038	0.000977	10.00		11.00	11.01	94.08
0.000019	0.000488	11.00		4.18	4.19	98.27
0.000015	0.000375	11.38		1.73	1.73	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.24	0.0167	0.423
10	2.10	0.0092	0.233
16	2.89	0.0053	0.135
25	3.61	0.0032	0.082
40	4.67	0.0015	0.039
50	5.39	0.0009	0.024
60	6.18	0.0005	0.014
75	7.55	0.0002	0.005
84	9.08	0.0001	0.002
90	9.63	0.0000	0.001
95	10.22	0.0000	0.001

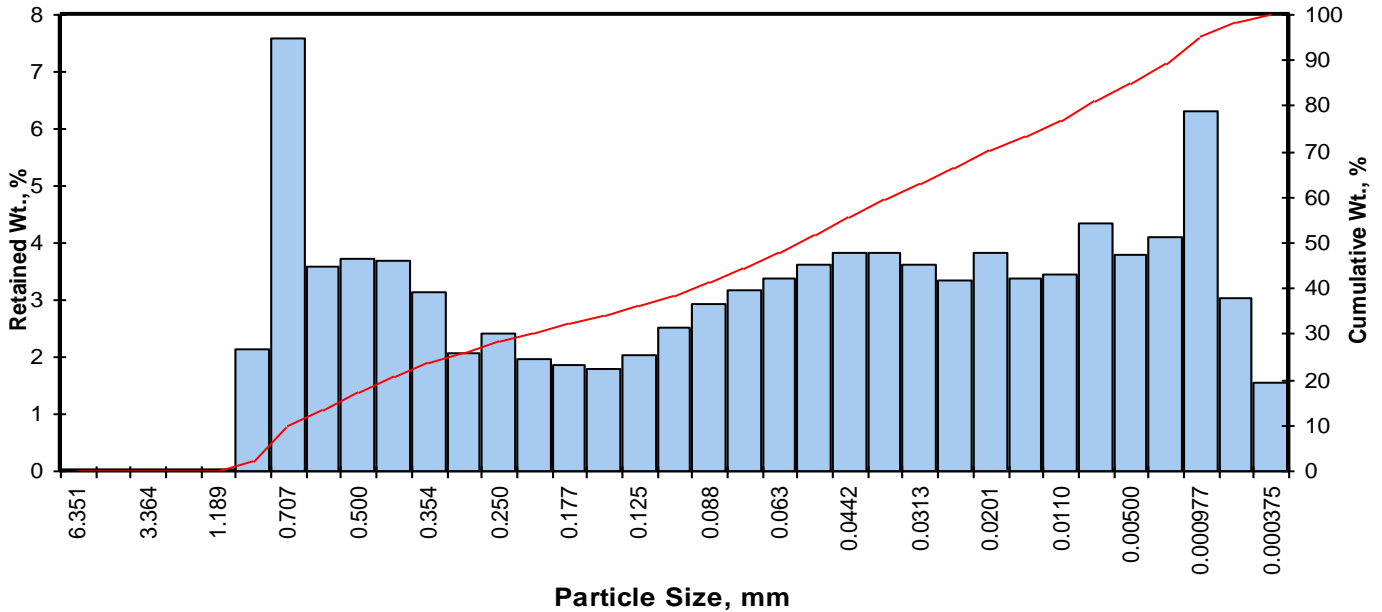
Measure	Trask	Inman	Folk-Ward
Median, phi	5.39	5.39	5.39
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.024	0.024	0.024
Mean, phi	4.52	5.98	5.79
Mean, in.	0.0017	0.0006	0.0007
Mean, mm	0.044	0.016	0.018
Sorting	3.916	3.100	2.910
Skewness	0.875	0.192	0.134
Kurtosis	0.165	0.448	0.934
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.06
Fine Sand	200	21.90
Silt	>0.005 mm	48.95
Clay	<0.005 mm	24.09
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB9-64.0-64.3
Depth, ft: 64.0-64.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	2.15	2.15	2.15
0.0278	0.707	0.50	25	7.57	7.58	9.74
0.0234	0.595	0.75	30	3.57	3.58	13.31
0.0197	0.500	1.00	35	3.72	3.73	17.04
0.0166	0.420	1.25	40	3.69	3.70	20.74
0.0139	0.354	1.50	45	3.12	3.13	23.86
0.0117	0.297	1.75	50	2.07	2.07	25.93
0.0098	0.250	2.00	60	2.41	2.41	28.35
0.0083	0.210	2.25	70	1.95	1.95	30.30
0.0070	0.177	2.50	80	1.86	1.86	32.16
0.0059	0.149	2.75	100	1.80	1.80	33.97
0.0049	0.125	3.00	120	2.03	2.03	36.00
0.0041	0.105	3.25	140	2.52	2.52	38.53
0.0035	0.088	3.50	170	2.92	2.92	41.45
0.0029	0.074	3.75	200	3.15	3.16	44.61
0.0025	0.063	4.00	230	3.36	3.37	47.97
0.0021	0.053	4.25	270	3.63	3.64	51.61
0.00174	0.0442	4.50	325	3.82	3.83	55.43
0.00146	0.0372	4.75	400	3.83	3.84	59.27
0.00123	0.0313	5.00	450	3.62	3.63	62.90
0.000986	0.0250	5.32	500	3.33	3.34	66.23
0.000790	0.0201	5.64	635	3.81	3.82	70.05
0.000615	0.0156	6.00		3.38	3.39	73.43
0.000435	0.0110	6.50		3.43	3.44	76.87
0.000308	0.00781	7.00		4.34	4.35	81.22
0.000197	0.00500	7.65		3.79	3.80	85.01
0.000077	0.00195	9.00		4.09	4.10	89.11
0.000038	0.000977	10.00		6.30	6.31	95.42
0.000019	0.000488	11.00		3.02	3.03	98.45
0.000015	0.000375	11.38		1.55	1.55	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.34	0.0310	0.788
10	0.52	0.0275	0.698
16	0.93	0.0207	0.525
25	1.64	0.0127	0.321
40	3.38	0.0038	0.096
50	4.14	0.0022	0.057
60	4.80	0.0014	0.036
75	6.23	0.0005	0.013
84	7.47	0.0002	0.006
90	9.14	0.0001	0.002
95	9.93	0.0000	0.001

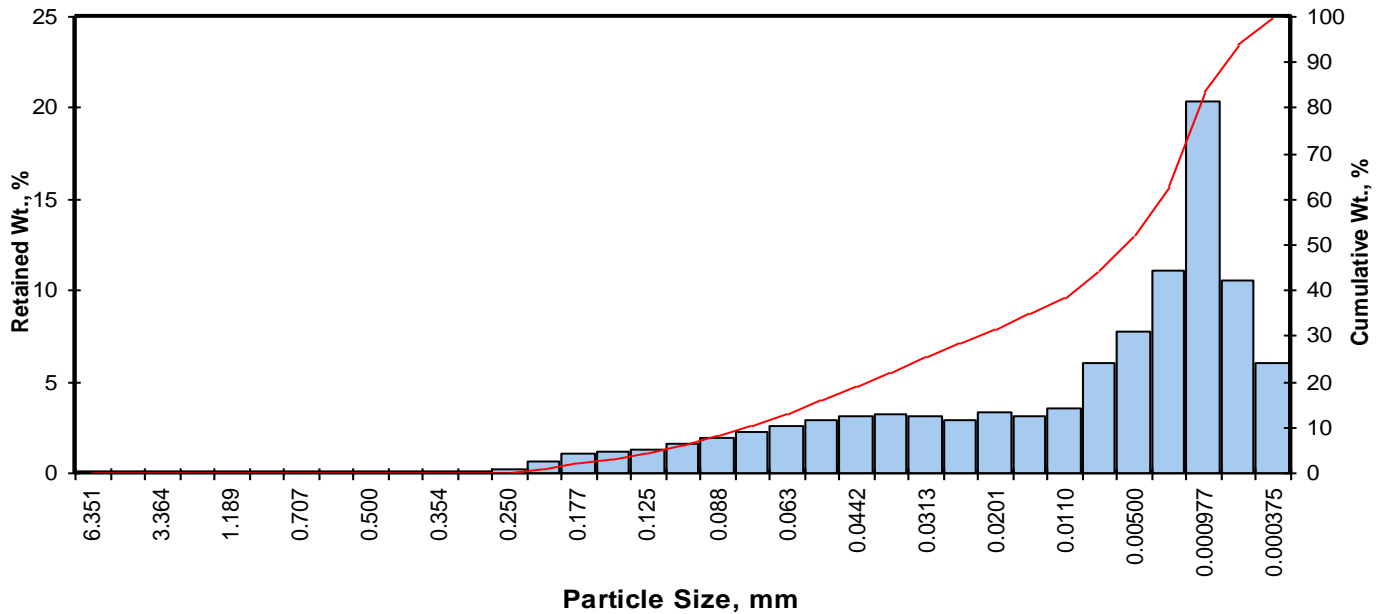
Measure	Trask	Inman	Folk-Ward
Median, phi	4.14	4.14	4.14
Median, in.	0.0022	0.0022	0.0022
Median, mm	0.057	0.057	0.057
Mean, phi	2.58	4.20	4.18
Mean, in.	0.0066	0.0021	0.0022
Mean, mm	0.167	0.054	0.055
Sorting	4.908	3.271	3.089
Skewness	1.154	0.019	0.114
Kurtosis	0.221	0.466	0.856
Grain Size Description		Fine sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	20.74
Fine Sand	200	23.87
Silt	>0.005 mm	40.41
Clay	<0.005 mm	14.99
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB9-65.0-65.3
Depth, ft: 65.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.01	0.01	0.01
0.0098	0.250	2.00	60	0.20	0.20	0.21
0.0083	0.210	2.25	70	0.68	0.68	0.89
0.0070	0.177	2.50	80	1.09	1.10	1.99
0.0059	0.149	2.75	100	1.20	1.21	3.20
0.0049	0.125	3.00	120	1.28	1.29	4.48
0.0041	0.105	3.25	140	1.56	1.57	6.05
0.0035	0.088	3.50	170	1.92	1.93	7.99
0.0029	0.074	3.75	200	2.24	2.25	10.24
0.0025	0.063	4.00	230	2.57	2.59	12.82
0.0021	0.053	4.25	270	2.89	2.91	15.73
0.00174	0.0442	4.50	325	3.13	3.15	18.88
0.00146	0.0372	4.75	400	3.25	3.27	22.15
0.00123	0.0313	5.00	450	3.15	3.17	25.32
0.000986	0.0250	5.32	500	2.91	2.93	28.25
0.000790	0.0201	5.64	635	3.32	3.34	31.59
0.000615	0.0156	6.00		3.10	3.12	34.71
0.000435	0.0110	6.50		3.54	3.56	38.27
0.000308	0.00781	7.00		5.99	6.03	44.30
0.000197	0.00500	7.65		7.69	7.74	52.04
0.000077	0.00195	9.00		11.00	11.07	63.10
0.000038	0.000977	10.00		20.20	20.32	83.43
0.000019	0.000488	11.00		10.50	10.56	93.99
0.000015	0.000375	11.38		5.97	6.01	100.00
TOTALS				99.40	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.08	0.0046	0.118
10	3.72	0.0030	0.076
16	4.27	0.0020	0.052
25	4.97	0.0013	0.032
40	6.64	0.0004	0.010
50	7.48	0.0002	0.006
60	8.62	0.0001	0.003
75	9.59	0.0001	0.001
84	10.05	0.0000	0.001
90	10.62	0.0000	0.001
95	11.06	0.0000	0.000

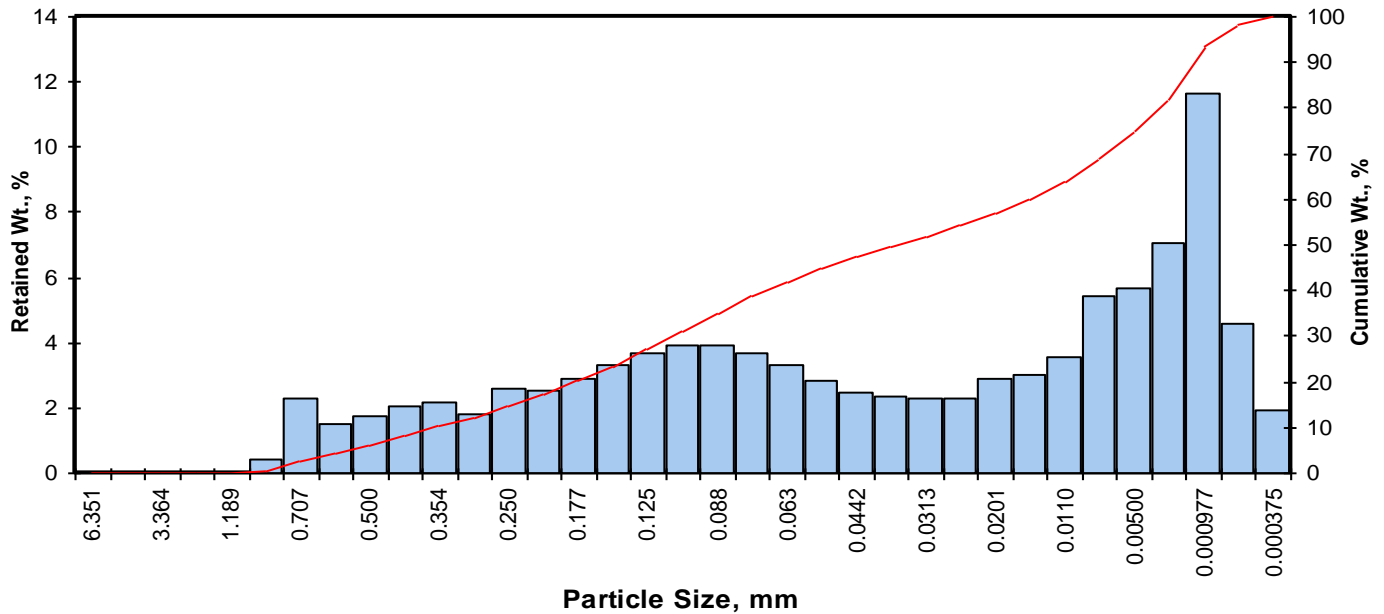
Measure	Trask	Inman	Folk-Ward
Median, phi	7.48	7.48	7.48
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.006	0.006	0.006
Mean, phi	5.92	7.16	7.27
Mean, in.	0.0007	0.0003	0.0003
Mean, mm	0.017	0.007	0.006
Sorting	4.943	2.891	2.655
Skewness	1.145	-0.108	-0.104
Kurtosis	0.203	0.380	0.709
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	10.24
Silt	>0.005 mm	41.80
Clay	<0.005 mm	47.96
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB9-74.2-74.5
Depth, ft: 74.2-74.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.42	0.42	0.42
0.0278	0.707	0.50	25	2.31	2.31	2.73
0.0234	0.595	0.75	30	1.52	1.52	4.26
0.0197	0.500	1.00	35	1.76	1.76	6.02
0.0166	0.420	1.25	40	2.05	2.05	8.07
0.0139	0.354	1.50	45	2.16	2.16	10.24
0.0117	0.297	1.75	50	1.79	1.79	12.03
0.0098	0.250	2.00	60	2.58	2.58	14.61
0.0083	0.210	2.25	70	2.52	2.52	17.14
0.0070	0.177	2.50	80	2.92	2.92	20.06
0.0059	0.149	2.75	100	3.30	3.30	23.37
0.0049	0.125	3.00	120	3.67	3.68	27.04
0.0041	0.105	3.25	140	3.93	3.94	30.98
0.0035	0.088	3.50	170	3.94	3.95	34.92
0.0029	0.074	3.75	200	3.70	3.71	38.63
0.0025	0.063	4.00	230	3.29	3.29	41.92
0.0021	0.053	4.25	270	2.84	2.84	44.77
0.00174	0.0442	4.50	325	2.48	2.48	47.25
0.00146	0.0372	4.75	400	2.33	2.33	49.58
0.00123	0.0313	5.00	450	2.30	2.30	51.89
0.000986	0.0250	5.32	500	2.29	2.29	54.18
0.000790	0.0201	5.64	635	2.91	2.91	57.10
0.000615	0.0156	6.00		3.00	3.00	60.10
0.000435	0.0110	6.50		3.56	3.57	63.67
0.000308	0.00781	7.00		5.43	5.44	69.10
0.000197	0.00500	7.65		5.68	5.69	74.79
0.000077	0.00195	9.00		7.07	7.08	81.87
0.000038	0.000977	10.00		11.60	11.62	93.49
0.000019	0.000488	11.00		4.58	4.59	98.08
0.000015	0.000375	11.38		1.92	1.92	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.86	0.0218	0.553
10	1.47	0.0142	0.360
16	2.14	0.0089	0.227
25	2.86	0.0054	0.138
40	3.85	0.0027	0.069
50	4.80	0.0014	0.036
60	5.99	0.0006	0.016
75	7.68	0.0002	0.005
84	9.18	0.0001	0.002
90	9.70	0.0000	0.001
95	10.33	0.0000	0.001

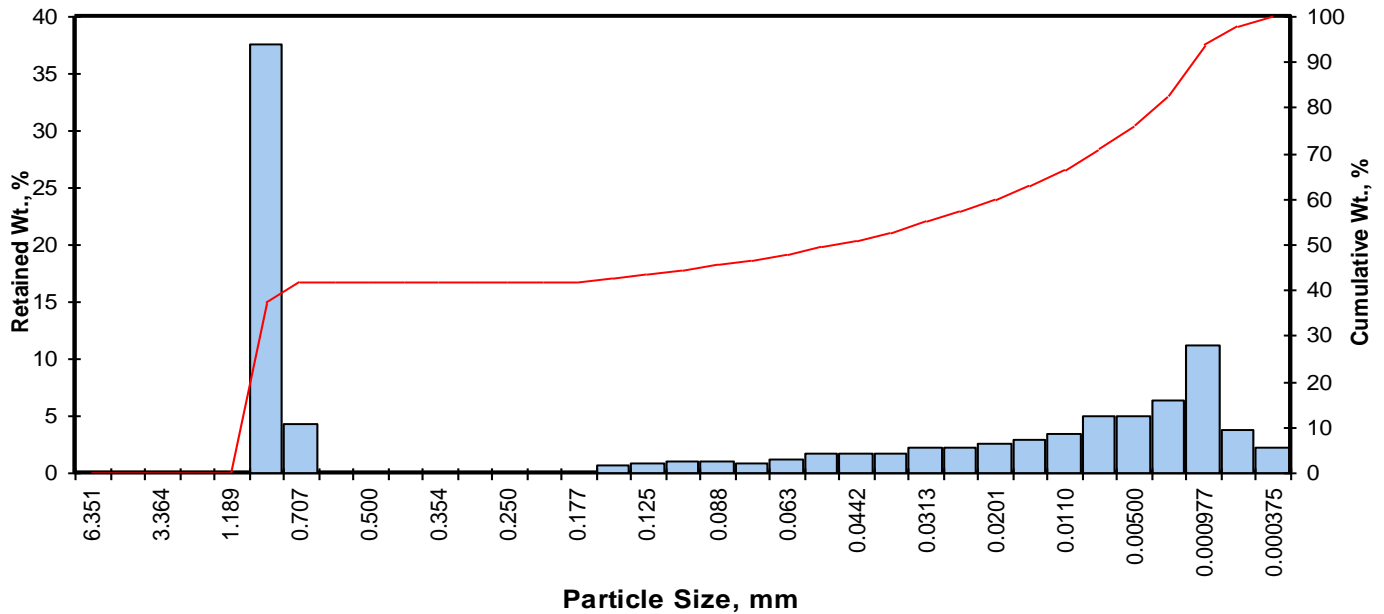
Measure	Trask	Inman	Folk-Ward
Median, phi	4.80	4.80	4.80
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.036	0.036	0.036
Mean, phi	3.81	5.66	5.37
Mean, in.	0.0028	0.0008	0.0010
Mean, mm	0.071	0.020	0.024
Sorting	5.321	3.523	3.197
Skewness	0.718	0.246	0.207
Kurtosis	0.185	0.345	0.805
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	8.07
Fine Sand	200	30.56
Silt	>0.005 mm	36.16
Clay	<0.005 mm	25.21
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB9-82.1-82.4
Depth, ft: 82.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	37.50	37.62	37.62
0.0278	0.707	0.50	25	4.28	4.29	41.91
0.0234	0.595	0.75	30	0.00	0.00	41.91
0.0197	0.500	1.00	35	0.00	0.00	41.91
0.0166	0.420	1.25	40	0.00	0.00	41.91
0.0139	0.354	1.50	45	0.00	0.00	41.91
0.0117	0.297	1.75	50	0.00	0.00	41.91
0.0098	0.250	2.00	60	0.00	0.00	41.91
0.0083	0.210	2.25	70	0.00	0.00	41.91
0.0070	0.177	2.50	80	0.04	0.04	41.95
0.0059	0.149	2.75	100	0.73	0.73	42.68
0.0049	0.125	3.00	120	0.88	0.88	43.57
0.0041	0.105	3.25	140	1.00	1.00	44.57
0.0035	0.088	3.50	170	1.08	1.08	45.65
0.0029	0.074	3.75	200	0.80	0.80	46.46
0.0025	0.063	4.00	230	1.27	1.27	47.73
0.0021	0.053	4.25	270	1.64	1.65	49.38
0.00174	0.0442	4.50	325	1.64	1.65	51.02
0.00146	0.0372	4.75	400	1.70	1.71	52.73
0.00123	0.0313	5.00	450	2.31	2.32	55.04
0.000986	0.0250	5.32	500	2.22	2.23	57.27
0.000790	0.0201	5.64	635	2.64	2.65	59.92
0.000615	0.0156	6.00		2.96	2.97	62.89
0.000435	0.0110	6.50		3.48	3.49	66.38
0.000308	0.00781	7.00		4.93	4.95	71.32
0.000197	0.00500	7.65		5.02	5.04	76.36
0.000077	0.00195	9.00		6.38	6.40	82.76
0.000038	0.000977	10.00		11.20	11.23	93.99
0.000019	0.000488	11.00		3.84	3.85	97.84
0.000015	0.000375	11.38		2.15	2.16	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.18	0.0447	1.136
10	-0.12	0.0427	1.085
16	-0.04	0.0404	1.026
25	0.08	0.0372	0.945
40	1.36	0.0153	0.389
50	4.34	0.0019	0.049
60	5.65	0.0008	0.020
75	7.47	0.0002	0.006
84	9.11	0.0001	0.002
90	9.64	0.0000	0.001
95	10.26	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.34	4.34	4.34
Median, in.	0.0019	0.0019	0.0019
Median, mm	0.049	0.049	0.049
Mean, phi	1.07	4.54	4.47
Mean, in.	0.0187	0.0017	0.0018
Mean, mm	0.475	0.043	0.045
Sorting	12.946	4.574	3.870
Skewness	1.483	0.042	0.087
Kurtosis	0.433	0.142	0.579

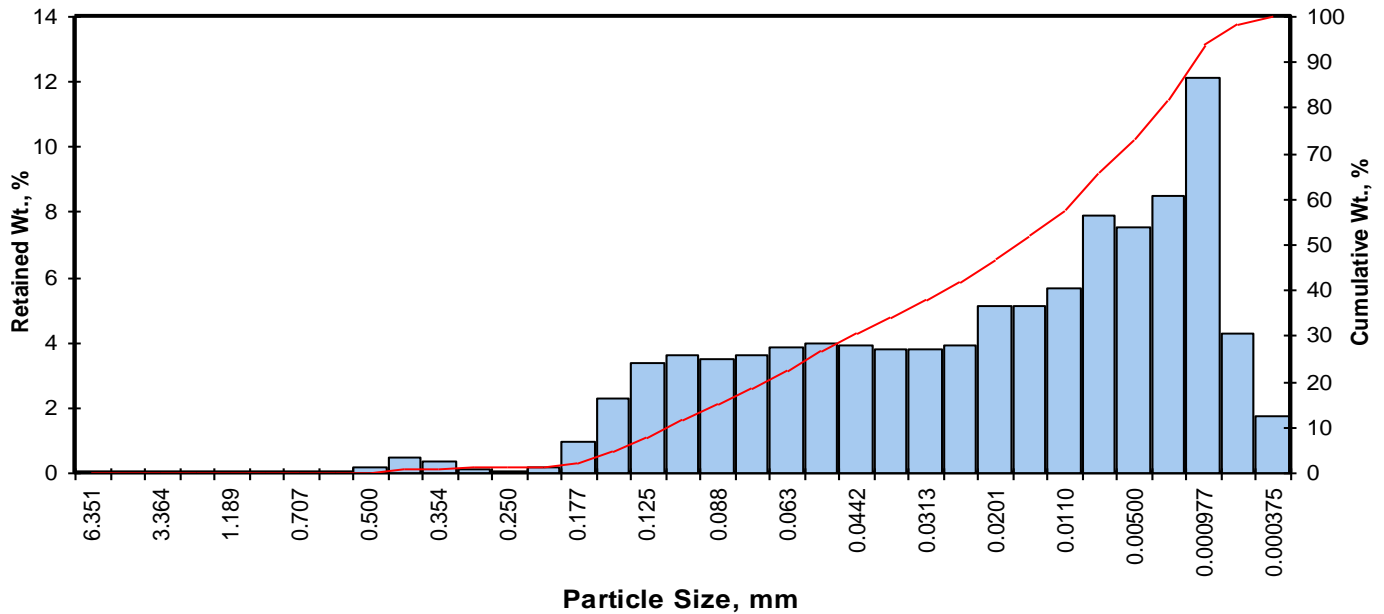
Grain Size Description Medium sand
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	41.91
Fine Sand	200	4.55
Silt	>0.005 mm	29.90
Clay	<0.005 mm	23.64
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-RIDB10-36.0-36.3
 Depth, ft: 36.0-36.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.17	0.17	0.18
0.0166	0.420	1.25	40	0.47	0.47	0.66
0.0139	0.354	1.50	45	0.37	0.37	1.03
0.0117	0.297	1.75	50	0.09	0.09	1.12
0.0098	0.250	2.00	60	0.02	0.02	1.13
0.0083	0.210	2.25	70	0.16	0.16	1.30
0.0070	0.177	2.50	80	0.95	0.95	2.25
0.0059	0.149	2.75	100	2.31	2.31	4.56
0.0049	0.125	3.00	120	3.40	3.41	7.97
0.0041	0.105	3.25	140	3.61	3.62	11.58
0.0035	0.088	3.50	170	3.50	3.51	15.09
0.0029	0.074	3.75	200	3.60	3.61	18.69
0.0025	0.063	4.00	230	3.84	3.85	22.54
0.0021	0.053	4.25	270	3.97	3.98	26.52
0.00174	0.0442	4.50	325	3.89	3.90	30.41
0.00146	0.0372	4.75	400	3.79	3.80	34.21
0.00123	0.0313	5.00	450	3.80	3.81	38.02
0.000986	0.0250	5.32	500	3.93	3.94	41.95
0.000790	0.0201	5.64	635	5.13	5.14	47.09
0.000615	0.0156	6.00		5.12	5.13	52.22
0.000435	0.0110	6.50		5.64	5.65	57.87
0.000308	0.00781	7.00		7.92	7.93	65.80
0.000197	0.00500	7.65		7.54	7.55	73.36
0.000077	0.00195	9.00		8.49	8.50	81.86
0.000038	0.000977	10.00		12.10	12.12	93.98
0.000019	0.000488	11.00		4.29	4.30	98.28
0.000015	0.000375	11.38		1.72	1.72	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.78	0.0057	0.145
10	3.14	0.0045	0.113
16	3.56	0.0033	0.085
25	4.15	0.0022	0.056
40	5.16	0.0011	0.028
50	5.84	0.0007	0.017
60	6.63	0.0004	0.010
75	7.91	0.0002	0.004
84	9.18	0.0001	0.002
90	9.67	0.0000	0.001
95	10.24	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.84	5.84	5.84
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	5.05	6.37	6.19
Mean, in.	0.0012	0.0005	0.0005
Mean, mm	0.030	0.012	0.014
Sorting	3.671	2.807	2.533
Skewness	0.879	0.187	0.183
Kurtosis	0.232	0.328	0.814
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.66
Fine Sand	200	18.04
Silt	>0.005 mm	54.66
Clay	<0.005 mm	26.64
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3

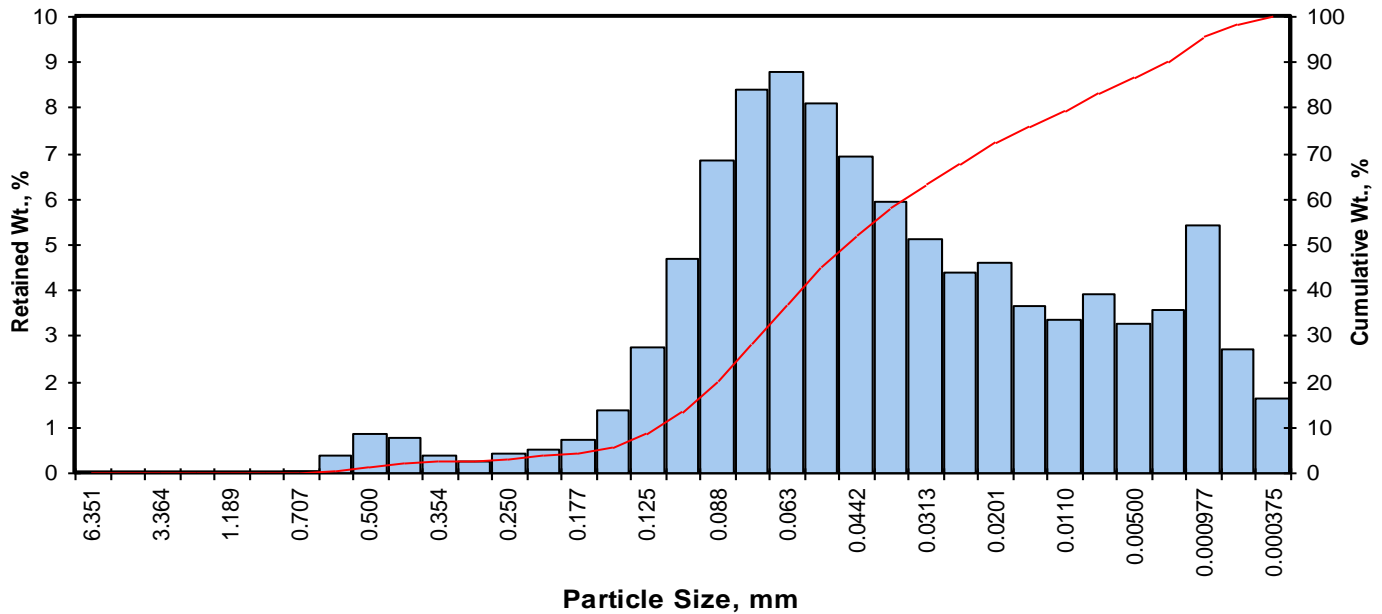
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RIDB10-61.5-61.8	61.5-61.8	Silt	0.047	0.00	0.00	2.09	26.39	58.16	13.35	71.52
PT-RIDB10-76.5-77.0	76.6	Silt	0.013	0.00	0.00	5.77	9.29	51.92	33.02	84.94
PT-RIDB10-81.5-82.0	81.9	Silt	0.010	0.00	0.00	0.00	12.98	52.28	34.73	87.02
PT-RIDB13-63.0-63.5	63.1	Silt	0.011	0.00	0.00	0.00	8.84	55.00	36.16	91.16
PT-RIDB13-78.2-78.7	78.3	Silt	0.009	0.00	0.00	0.00	9.71	49.59	40.70	90.29
PT-RIDB13-81.0-81.4	81.1	Fine sand	0.036	0.00	0.00	19.73	15.90	38.97	25.40	64.37
PT-RIDB14-73.6-74.1	73.7	Fine sand	0.011	0.00	0.00	26.23	1.47	35.09	37.21	72.30
PT-M201-29.0-29.5	29.0-29.5	Silt	0.041	0.00	0.00	9.88	26.23	46.88	17.01	63.89
PT-M201-43.0-43.5	43.1	Fine sand	0.075	0.00	0.00	20.34	29.80	35.63	14.23	49.86
PT-M201-57.0-57.5	57.1	Silt	0.017	0.00	0.00	0.90	15.25	55.76	28.10	83.86

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB10-61.5-61.8
Depth, ft: 61.5-61.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.05	0.05	0.05
0.0234	0.595	0.75	30	0.40	0.40	0.45
0.0197	0.500	1.00	35	0.88	0.88	1.33
0.0166	0.420	1.25	40	0.76	0.76	2.09
0.0139	0.354	1.50	45	0.38	0.38	2.47
0.0117	0.297	1.75	50	0.24	0.24	2.71
0.0098	0.250	2.00	60	0.45	0.45	3.17
0.0083	0.210	2.25	70	0.50	0.50	3.67
0.0070	0.177	2.50	80	0.72	0.72	4.39
0.0059	0.149	2.75	100	1.38	1.38	5.77
0.0049	0.125	3.00	120	2.76	2.76	8.54
0.0041	0.105	3.25	140	4.70	4.71	13.24
0.0035	0.088	3.50	170	6.83	6.84	20.09
0.0029	0.074	3.75	200	8.38	8.40	28.48
0.0025	0.063	4.00	230	8.77	8.79	37.27
0.0021	0.053	4.25	270	8.07	8.08	45.35
0.00174	0.0442	4.50	325	6.93	6.94	52.29
0.00146	0.0372	4.75	400	5.93	5.94	58.23
0.00123	0.0313	5.00	450	5.13	5.14	63.37
0.000986	0.0250	5.32	500	4.40	4.41	67.78
0.000790	0.0201	5.64	635	4.62	4.63	72.41
0.000615	0.0156	6.00		3.66	3.67	76.08
0.000435	0.0110	6.50		3.37	3.38	79.45
0.000308	0.00781	7.00		3.90	3.91	83.36
0.000197	0.00500	7.65		3.28	3.29	86.65
0.000077	0.00195	9.00		3.55	3.56	90.20
0.000038	0.000977	10.00		5.42	5.43	95.63
0.000019	0.000488	11.00		2.73	2.73	98.37
0.000015	0.000375	11.38		1.63	1.63	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.61	0.0064	0.164
10	3.08	0.0047	0.118
16	3.35	0.0039	0.098
25	3.65	0.0031	0.080
40	4.08	0.0023	0.059
50	4.42	0.0018	0.047
60	4.84	0.0014	0.035
75	5.89	0.0007	0.017
84	7.13	0.0003	0.007
90	8.92	0.0001	0.002
95	9.88	0.0000	0.001

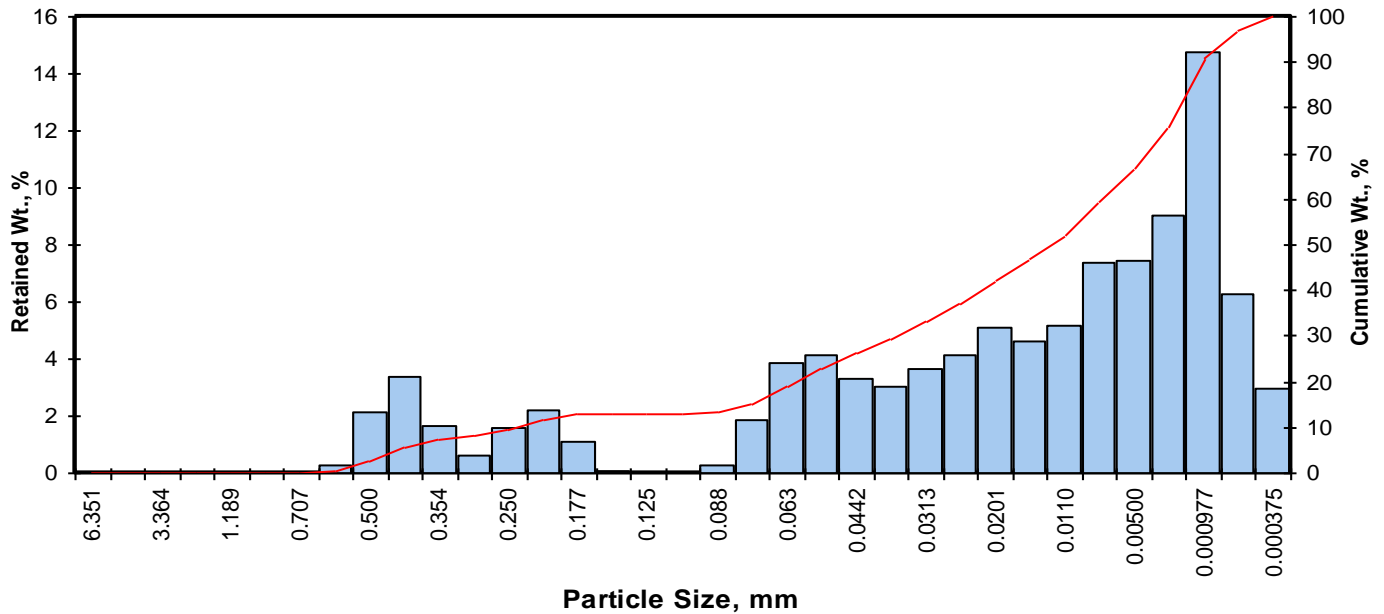
Measure	Trask	Inman	Folk-Ward
Median, phi	4.42	4.42	4.42
Median, in.	0.0018	0.0018	0.0018
Median, mm	0.047	0.047	0.047
Mean, phi	4.37	5.24	4.96
Mean, in.	0.0019	0.0010	0.0013
Mean, mm	0.048	0.026	0.032
Sorting	2.179	1.887	2.046
Skewness	0.783	0.435	0.469
Kurtosis	0.271	0.927	1.326
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.09
Fine Sand	200	26.39
Silt	>0.005 mm	58.16
Clay	<0.005 mm	13.35
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB10-76.5-77.0
Depth, ft: 76.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.28	0.28	0.29
0.0197	0.500	1.00	35	2.10	2.11	2.39
0.0166	0.420	1.25	40	3.37	3.38	5.77
0.0139	0.354	1.50	45	1.62	1.62	7.40
0.0117	0.297	1.75	50	0.59	0.59	7.99
0.0098	0.250	2.00	60	1.60	1.60	9.59
0.0083	0.210	2.25	70	2.18	2.19	11.78
0.0070	0.177	2.50	80	1.07	1.07	12.85
0.0059	0.149	2.75	100	0.09	0.09	12.94
0.0049	0.125	3.00	120	0.00	0.00	12.94
0.0041	0.105	3.25	140	0.00	0.00	12.94
0.0035	0.088	3.50	170	0.27	0.27	13.21
0.0029	0.074	3.75	200	1.84	1.85	15.06
0.0025	0.063	4.00	230	3.82	3.83	18.89
0.0021	0.053	4.25	270	4.15	4.16	23.05
0.00174	0.0442	4.50	325	3.30	3.31	26.36
0.00146	0.0372	4.75	400	3.04	3.05	29.41
0.00123	0.0313	5.00	450	3.65	3.66	33.07
0.000986	0.0250	5.32	500	4.16	4.17	37.24
0.000790	0.0201	5.64	635	5.10	5.11	42.35
0.000615	0.0156	6.00		4.62	4.63	46.99
0.000435	0.0110	6.50		5.14	5.15	52.14
0.000308	0.00781	7.00		7.39	7.41	59.55
0.000197	0.00500	7.65		7.40	7.42	66.98
0.000077	0.00195	9.00		8.99	9.02	75.99
0.000038	0.000977	10.00		14.70	14.74	90.73
0.000019	0.000488	11.00		6.29	6.31	97.04
0.000015	0.000375	11.38		2.95	2.96	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.19	0.0172	0.437
10	2.05	0.0095	0.242
16	3.81	0.0028	0.071
25	4.40	0.0019	0.047
40	5.49	0.0009	0.022
50	6.29	0.0005	0.013
60	7.04	0.0003	0.008
75	8.85	0.0001	0.002
84	9.54	0.0001	0.001
90	9.95	0.0000	0.001
95	10.68	0.0000	0.001

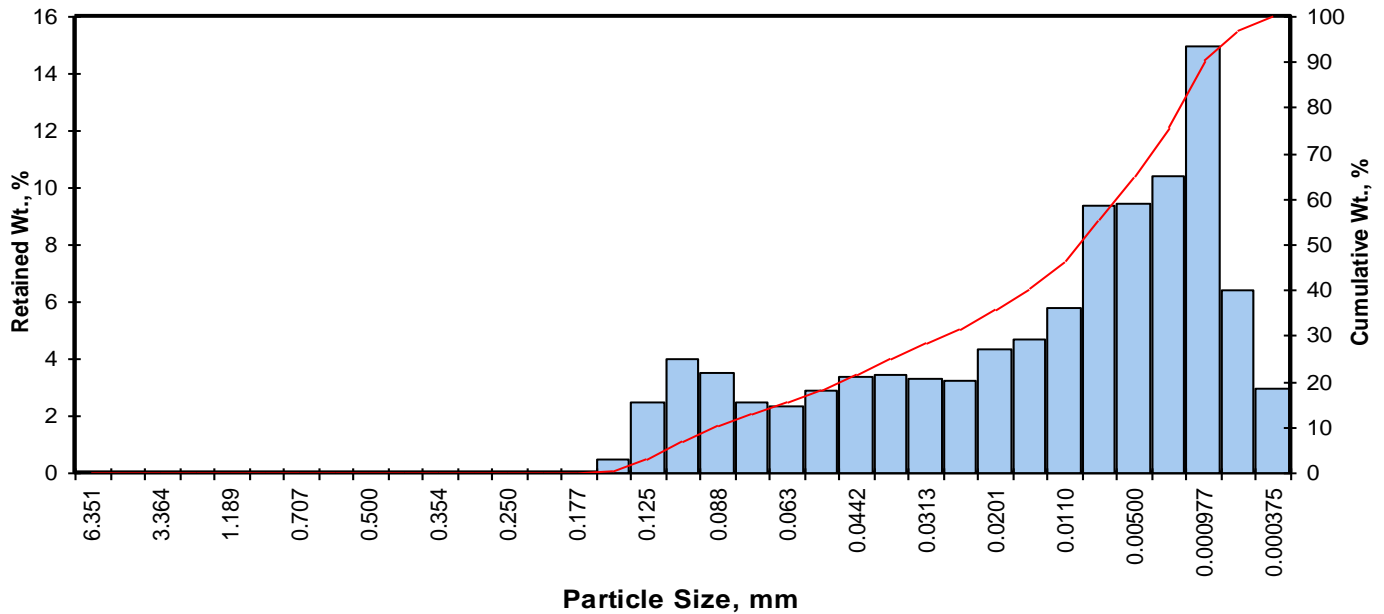
Measure	Trask	Inman	Folk-Ward
Median, phi	6.29	6.29	6.29
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.013	0.013	0.013
Mean, phi	5.33	6.68	6.55
Mean, in.	0.0010	0.0004	0.0004
Mean, mm	0.025	0.010	0.011
Sorting	4.681	2.866	2.870
Skewness	0.794	0.134	0.030
Kurtosis	0.094	0.655	0.873
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.77
Fine Sand	200	9.29
Silt	>0.005 mm	51.92
Clay	<0.005 mm	33.02
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB10-81.5-82.0
Depth, ft: 81.9

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.02	0.02	0.02
0.0059	0.149	2.75	100	0.46	0.46	0.48
0.0049	0.125	3.00	120	2.46	2.47	2.95
0.0041	0.105	3.25	140	3.99	4.00	6.95
0.0035	0.088	3.50	170	3.52	3.53	10.48
0.0029	0.074	3.75	200	2.49	2.50	12.98
0.0025	0.063	4.00	230	2.34	2.35	15.33
0.0021	0.053	4.25	270	2.91	2.92	18.25
0.00174	0.0442	4.50	325	3.39	3.40	21.65
0.00146	0.0372	4.75	400	3.42	3.43	25.09
0.00123	0.0313	5.00	450	3.28	3.29	28.38
0.000986	0.0250	5.32	500	3.26	3.27	31.65
0.000790	0.0201	5.64	635	4.30	4.32	35.96
0.000615	0.0156	6.00		4.64	4.66	40.62
0.000435	0.0110	6.50		5.80	5.82	46.44
0.000308	0.00781	7.00		9.33	9.36	55.80
0.000197	0.00500	7.65		9.43	9.46	65.27
0.000077	0.00195	9.00		10.40	10.44	75.70
0.000038	0.000977	10.00		14.90	14.95	90.66
0.000019	0.000488	11.00		6.36	6.38	97.04
0.000015	0.000375	11.38		2.95	2.96	100.00
TOTALS				99.60	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.13	0.0045	0.114
10	3.47	0.0036	0.091
16	4.06	0.0024	0.060
25	4.74	0.0015	0.037
40	5.95	0.0006	0.016
50	6.69	0.0004	0.010
60	7.29	0.0003	0.006
75	8.91	0.0001	0.002
84	9.55	0.0001	0.001
90	9.96	0.0000	0.001
95	10.68	0.0000	0.001

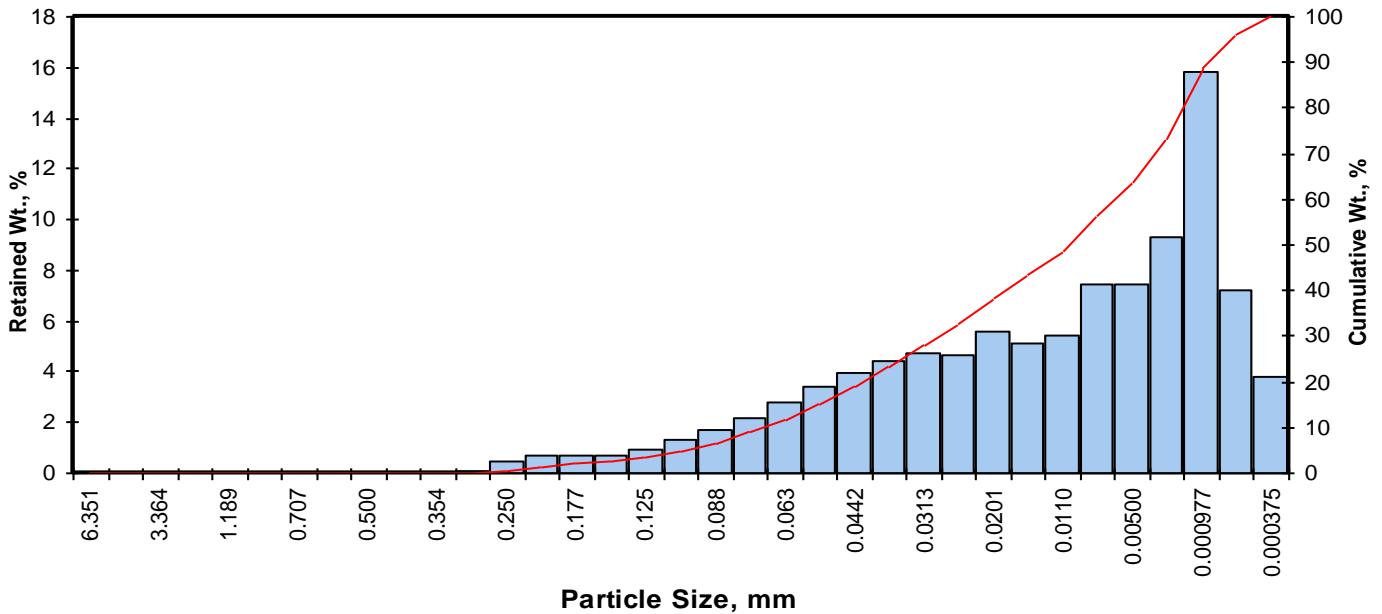
Measure	Trask	Inman	Folk-Ward
Median, phi	6.69	6.69	6.69
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.010	0.010	0.010
Mean, phi	5.67	6.81	6.77
Mean, in.	0.0008	0.0004	0.0004
Mean, mm	0.020	0.009	0.009
Sorting	4.235	2.749	2.519
Skewness	0.910	0.042	0.049
Kurtosis	0.197	0.374	0.743
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	12.98
Silt	>0.005 mm	52.28
Clay	<0.005 mm	34.73
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-RIDB13-63.0-63.5
 Depth, ft: 63.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.01	0.01	0.01
0.0117	0.297	1.75	50	0.09	0.09	0.10
0.0098	0.250	2.00	60	0.50	0.50	0.60
0.0083	0.210	2.25	70	0.68	0.68	1.29
0.0070	0.177	2.50	80	0.68	0.68	1.97
0.0059	0.149	2.75	100	0.69	0.69	2.66
0.0049	0.125	3.00	120	0.94	0.94	3.60
0.0041	0.105	3.25	140	1.31	1.31	4.92
0.0035	0.088	3.50	170	1.71	1.72	6.64
0.0029	0.074	3.75	200	2.20	2.21	8.84
0.0025	0.063	4.00	230	2.81	2.82	11.66
0.0021	0.053	4.25	270	3.41	3.42	15.09
0.00174	0.0442	4.50	325	3.93	3.94	19.03
0.00146	0.0372	4.75	400	4.41	4.43	23.46
0.00123	0.0313	5.00	450	4.68	4.70	28.16
0.000986	0.0250	5.32	500	4.66	4.68	32.84
0.000790	0.0201	5.64	635	5.55	5.57	38.41
0.000615	0.0156	6.00		5.07	5.09	43.50
0.000435	0.0110	6.50		5.40	5.42	48.92
0.000308	0.00781	7.00		7.44	7.47	56.38
0.000197	0.00500	7.65		7.43	7.46	63.84
0.000077	0.00195	9.00		9.27	9.31	73.15
0.000038	0.000977	10.00		15.80	15.86	89.01
0.000019	0.000488	11.00		7.20	7.23	96.24
0.000015	0.000375	11.38		3.75	3.76	100.00
TOTALS				99.60	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.26	0.0041	0.104
10	3.85	0.0027	0.069
16	4.31	0.0020	0.050
25	4.83	0.0014	0.035
40	5.75	0.0007	0.019
50	6.57	0.0004	0.011
60	7.31	0.0002	0.006
75	9.12	0.0001	0.002
84	9.68	0.0000	0.001
90	10.14	0.0000	0.001
95	10.83	0.0000	0.001

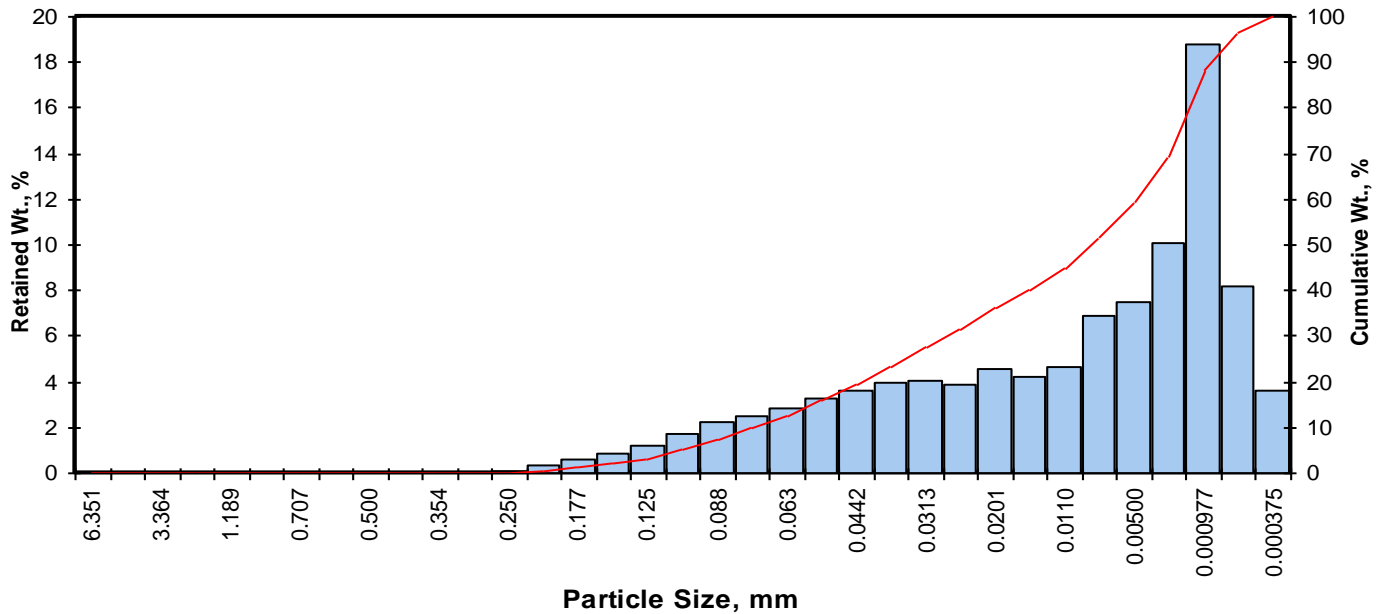
Measure	Trask	Inman	Folk-Ward
Median, phi	6.57	6.57	6.57
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.011	0.011	0.011
Mean, phi	5.76	7.00	6.85
Mean, in.	0.0007	0.0003	0.0003
Mean, mm	0.018	0.008	0.009
Sorting	4.415	2.688	2.491
Skewness	0.757	0.158	0.141
Kurtosis	0.244	0.407	0.724
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	8.84
Silt	>0.005 mm	55.00
Clay	<0.005 mm	36.16
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB13-78.2-78.7
Depth, ft: 78.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.09	0.09	0.09
0.0083	0.210	2.25	70	0.35	0.35	0.44
0.0070	0.177	2.50	80	0.64	0.64	1.09
0.0059	0.149	2.75	100	0.89	0.89	1.98
0.0049	0.125	3.00	120	1.24	1.24	3.22
0.0041	0.105	3.25	140	1.74	1.74	4.97
0.0035	0.088	3.50	170	2.20	2.21	7.17
0.0029	0.074	3.75	200	2.53	2.54	9.71
0.0025	0.063	4.00	230	2.87	2.88	12.59
0.0021	0.053	4.25	270	3.27	3.28	15.87
0.00174	0.0442	4.50	325	3.65	3.66	19.53
0.00146	0.0372	4.75	400	3.95	3.96	23.49
0.00123	0.0313	5.00	450	4.03	4.04	27.53
0.000986	0.0250	5.32	500	3.89	3.90	31.43
0.000790	0.0201	5.64	635	4.58	4.59	36.03
0.000615	0.0156	6.00		4.24	4.25	40.28
0.000435	0.0110	6.50		4.65	4.66	44.94
0.000308	0.00781	7.00		6.84	6.86	51.80
0.000197	0.00500	7.65		7.48	7.50	59.30
0.000077	0.00195	9.00		10.10	10.13	69.43
0.000038	0.000977	10.00		18.70	18.75	88.19
0.000019	0.000488	11.00		8.18	8.20	96.39
0.000015	0.000375	11.38		3.60	3.61	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.25	0.0041	0.105
10	3.78	0.0029	0.073
16	4.26	0.0021	0.052
25	4.84	0.0014	0.035
40	5.98	0.0006	0.016
50	6.87	0.0003	0.009
60	7.74	0.0002	0.005
75	9.30	0.0001	0.002
84	9.78	0.0000	0.001
90	10.22	0.0000	0.001
95	10.83	0.0000	0.001

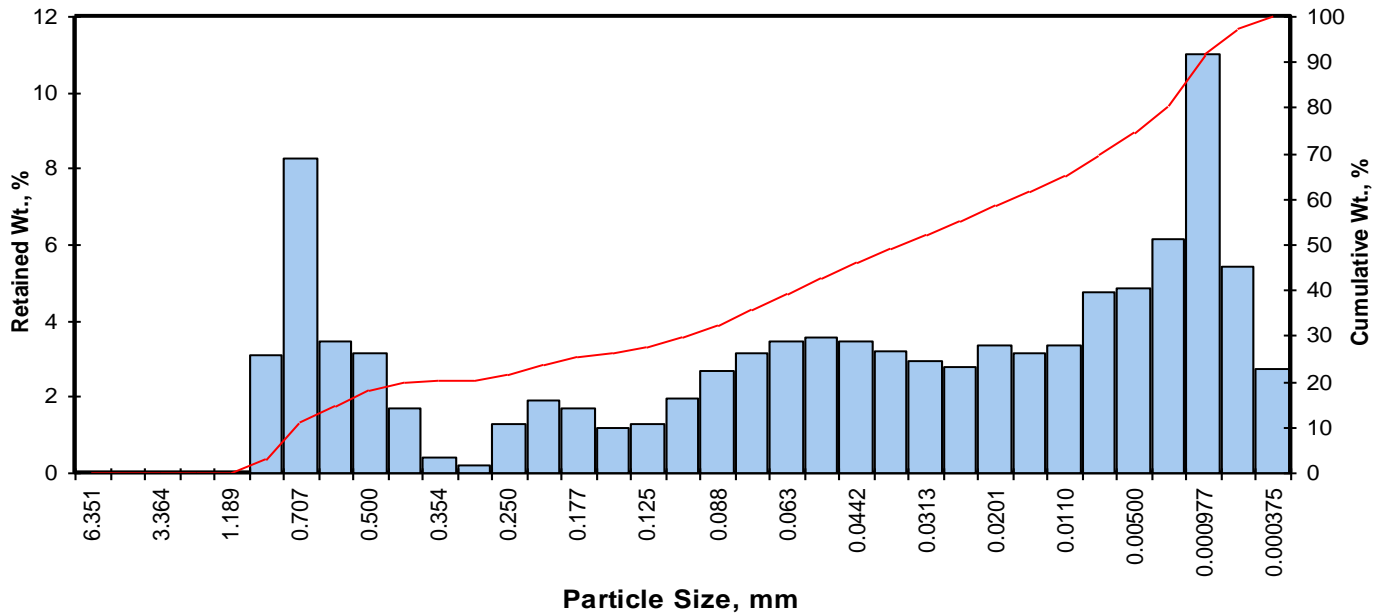
Measure	Trask	Inman	Folk-Ward
Median, phi	6.87	6.87	6.87
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.009	0.009	0.009
Mean, phi	5.78	7.02	6.97
Mean, in.	0.0007	0.0003	0.0003
Mean, mm	0.018	0.008	0.008
Sorting	4.681	2.759	2.527
Skewness	0.870	0.054	0.050
Kurtosis	0.230	0.373	0.697
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	9.71
Silt	>0.005 mm	49.59
Clay	<0.005 mm	40.70
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB13-81.0-81.4
Depth, ft: 81.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	3.11	3.12	3.12
0.0278	0.707	0.50	25	8.25	8.28	11.40
0.0234	0.595	0.75	30	3.45	3.46	14.86
0.0197	0.500	1.00	35	3.14	3.15	18.01
0.0166	0.420	1.25	40	1.72	1.73	19.73
0.0139	0.354	1.50	45	0.41	0.41	20.14
0.0117	0.297	1.75	50	0.23	0.23	20.37
0.0098	0.250	2.00	60	1.27	1.27	21.65
0.0083	0.210	2.25	70	1.92	1.93	23.57
0.0070	0.177	2.50	80	1.71	1.72	25.29
0.0059	0.149	2.75	100	1.21	1.21	26.50
0.0049	0.125	3.00	120	1.29	1.29	27.80
0.0041	0.105	3.25	140	1.97	1.98	29.77
0.0035	0.088	3.50	170	2.68	2.69	32.46
0.0029	0.074	3.75	200	3.16	3.17	35.63
0.0025	0.063	4.00	230	3.44	3.45	39.08
0.0021	0.053	4.25	270	3.54	3.55	42.63
0.00174	0.0442	4.50	325	3.44	3.45	46.08
0.00146	0.0372	4.75	400	3.22	3.23	49.31
0.00123	0.0313	5.00	450	2.96	2.97	52.28
0.000986	0.0250	5.32	500	2.78	2.79	55.07
0.000790	0.0201	5.64	635	3.35	3.36	58.43
0.000615	0.0156	6.00		3.17	3.18	61.61
0.000435	0.0110	6.50		3.37	3.38	64.99
0.000308	0.00781	7.00		4.72	4.73	69.73
0.000197	0.00500	7.65		4.86	4.88	74.60
0.000077	0.00195	9.00		6.15	6.17	80.77
0.000038	0.000977	10.00		11.00	11.03	91.80
0.000019	0.000488	11.00		5.42	5.44	97.24
0.000015	0.000375	11.38		2.75	2.76	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.31	0.0318	0.808
10	0.46	0.0287	0.728
16	0.84	0.0220	0.558
25	2.46	0.0072	0.182
40	4.06	0.0024	0.060
50	4.81	0.0014	0.036
60	5.82	0.0007	0.018
75	7.73	0.0002	0.005
84	9.29	0.0001	0.002
90	9.84	0.0000	0.001
95	10.59	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.81	4.81	4.81
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.036	0.036	0.036
Mean, phi	3.42	5.07	4.98
Mean, in.	0.0037	0.0012	0.0012
Mean, mm	0.093	0.030	0.032
Sorting	6.222	4.226	3.671
Skewness	0.819	0.061	0.093
Kurtosis	0.122	0.216	0.799

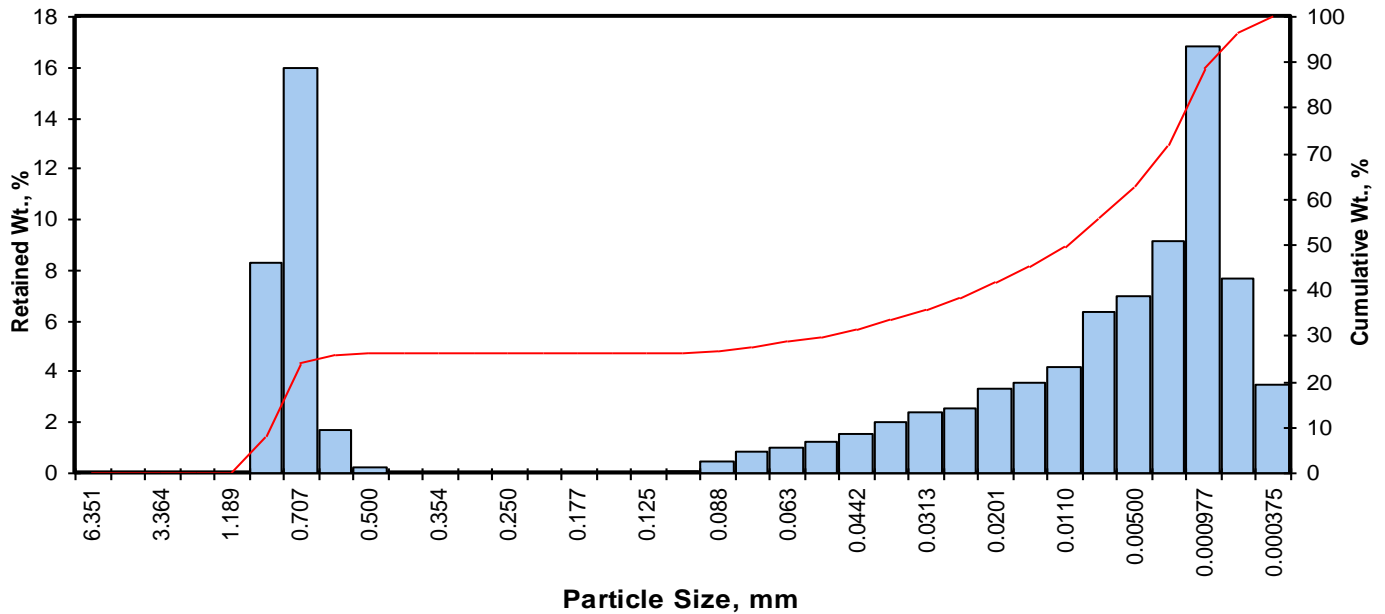
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	19.73
Fine Sand	200	15.90
Silt	>0.005 mm	38.97
Clay	<0.005 mm	25.40
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB14-73.6-74.1
Depth, ft: 73.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	8.28	8.31	8.31
0.0278	0.707	0.50	25	15.90	15.96	24.27
0.0234	0.595	0.75	30	1.72	1.73	26.00
0.0197	0.500	1.00	35	0.23	0.23	26.23
0.0166	0.420	1.25	40	0.00	0.00	26.23
0.0139	0.354	1.50	45	0.00	0.00	26.23
0.0117	0.297	1.75	50	0.00	0.00	26.23
0.0098	0.250	2.00	60	0.00	0.00	26.23
0.0083	0.210	2.25	70	0.00	0.00	26.23
0.0070	0.177	2.50	80	0.00	0.00	26.23
0.0059	0.149	2.75	100	0.00	0.00	26.23
0.0049	0.125	3.00	120	0.00	0.00	26.23
0.0041	0.105	3.25	140	0.10	0.10	26.33
0.0035	0.088	3.50	170	0.50	0.50	26.83
0.0029	0.074	3.75	200	0.87	0.87	27.70
0.0025	0.063	4.00	230	1.03	1.03	28.74
0.0021	0.053	4.25	270	1.20	1.20	29.94
0.00174	0.0442	4.50	325	1.52	1.53	31.47
0.00146	0.0372	4.75	400	1.99	2.00	33.46
0.00123	0.0313	5.00	450	2.37	2.38	35.84
0.000986	0.0250	5.32	500	2.56	2.57	38.41
0.000790	0.0201	5.64	635	3.36	3.37	41.79
0.000615	0.0156	6.00		3.52	3.53	45.32
0.000435	0.0110	6.50		4.16	4.18	49.49
0.000308	0.00781	7.00		6.33	6.35	55.85
0.000197	0.00500	7.65		6.92	6.95	62.79
0.000077	0.00195	9.00		9.16	9.19	71.99
0.000038	0.000977	10.00		16.80	16.86	88.85
0.000019	0.000488	11.00		7.63	7.66	96.51
0.000015	0.000375	11.38		3.48	3.49	100.00
TOTALS				99.60	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.05	0.0380	0.965
10	0.28	0.0325	0.826
16	0.37	0.0305	0.774
25	0.61	0.0259	0.657
40	5.47	0.0009	0.023
50	6.54	0.0004	0.011
60	7.39	0.0002	0.006
75	9.18	0.0001	0.002
84	9.71	0.0000	0.001
90	10.15	0.0000	0.001
95	10.80	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.54	6.54	6.54
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.011	0.011	0.011
Mean, phi	1.60	5.04	5.54
Mean, in.	0.0130	0.0012	0.0008
Mean, mm	0.329	0.030	0.021
Sorting	19.514	4.671	3.965
Skewness	3.133	-0.321	-0.264
Kurtosis	0.397	0.151	0.514

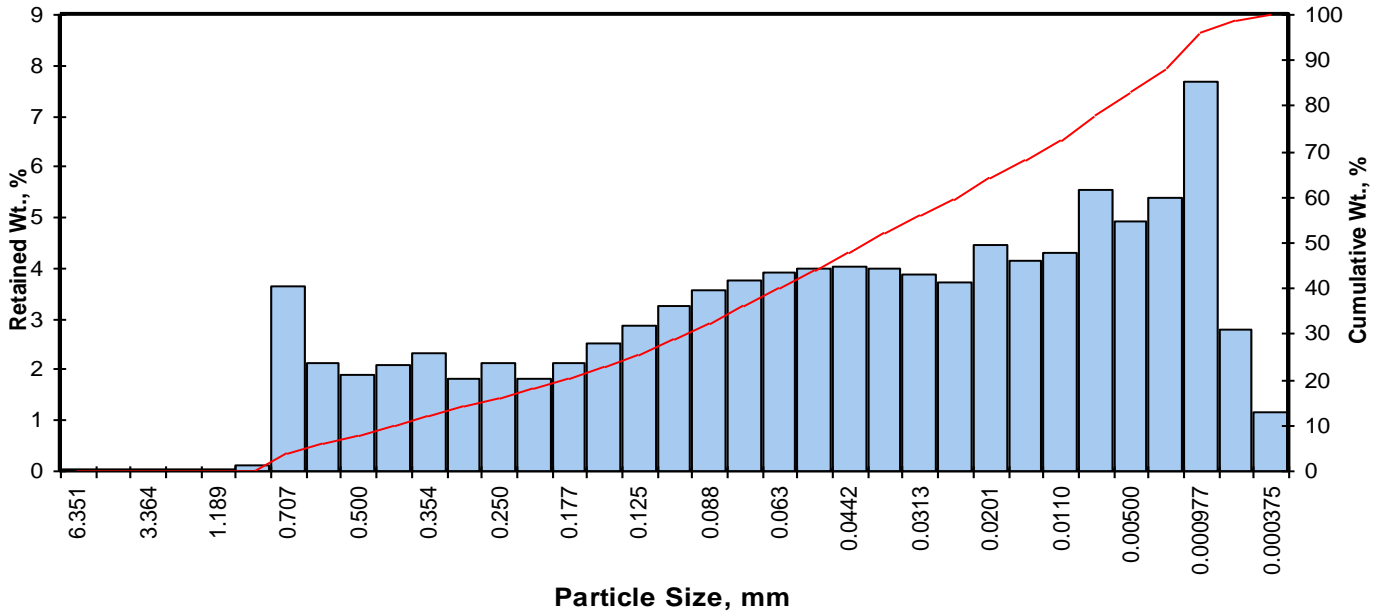
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	26.23
Fine Sand	200	1.47
Silt	>0.005 mm	35.09
Clay	<0.005 mm	37.21
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M201-29.0-29.5
Depth, ft: 29.0-29.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.12	0.12	0.12
0.0278	0.707	0.50	25	3.64	3.65	3.77
0.0234	0.595	0.75	30	2.13	2.13	5.90
0.0197	0.500	1.00	35	1.89	1.89	7.79
0.0166	0.420	1.25	40	2.09	2.09	9.88
0.0139	0.354	1.50	45	2.31	2.31	12.20
0.0117	0.297	1.75	50	1.81	1.81	14.01
0.0098	0.250	2.00	60	2.14	2.14	16.15
0.0083	0.210	2.25	70	1.81	1.81	17.97
0.0070	0.177	2.50	80	2.14	2.14	20.11
0.0059	0.149	2.75	100	2.52	2.52	22.63
0.0049	0.125	3.00	120	2.88	2.88	25.52
0.0041	0.105	3.25	140	3.24	3.24	28.76
0.0035	0.088	3.50	170	3.57	3.58	32.34
0.0029	0.074	3.75	200	3.77	3.78	36.11
0.0025	0.063	4.00	230	3.90	3.91	40.02
0.0021	0.053	4.25	270	3.99	4.00	44.01
0.00174	0.0442	4.50	325	4.02	4.03	48.04
0.00146	0.0372	4.75	400	3.99	4.00	52.03
0.00123	0.0313	5.00	450	3.87	3.88	55.91
0.000986	0.0250	5.32	500	3.71	3.72	59.62
0.000790	0.0201	5.64	635	4.45	4.46	64.08
0.000615	0.0156	6.00		4.13	4.14	68.22
0.000435	0.0110	6.50		4.29	4.30	72.51
0.000308	0.00781	7.00		5.53	5.54	78.05
0.000197	0.00500	7.65		4.93	4.94	82.99
0.000077	0.00195	9.00		5.39	5.40	88.38
0.000038	0.000977	10.00		7.67	7.68	96.06
0.000019	0.000488	11.00		2.77	2.77	98.84
0.000015	0.000375	11.38		1.16	1.16	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.64	0.0252	0.640
10	1.26	0.0164	0.417
16	1.98	0.0100	0.253
25	2.96	0.0051	0.129
40	4.00	0.0025	0.063
50	4.62	0.0016	0.041
60	5.35	0.0010	0.025
75	6.72	0.0004	0.009
84	7.90	0.0002	0.004
90	9.21	0.0001	0.002
95	9.86	0.0000	0.001

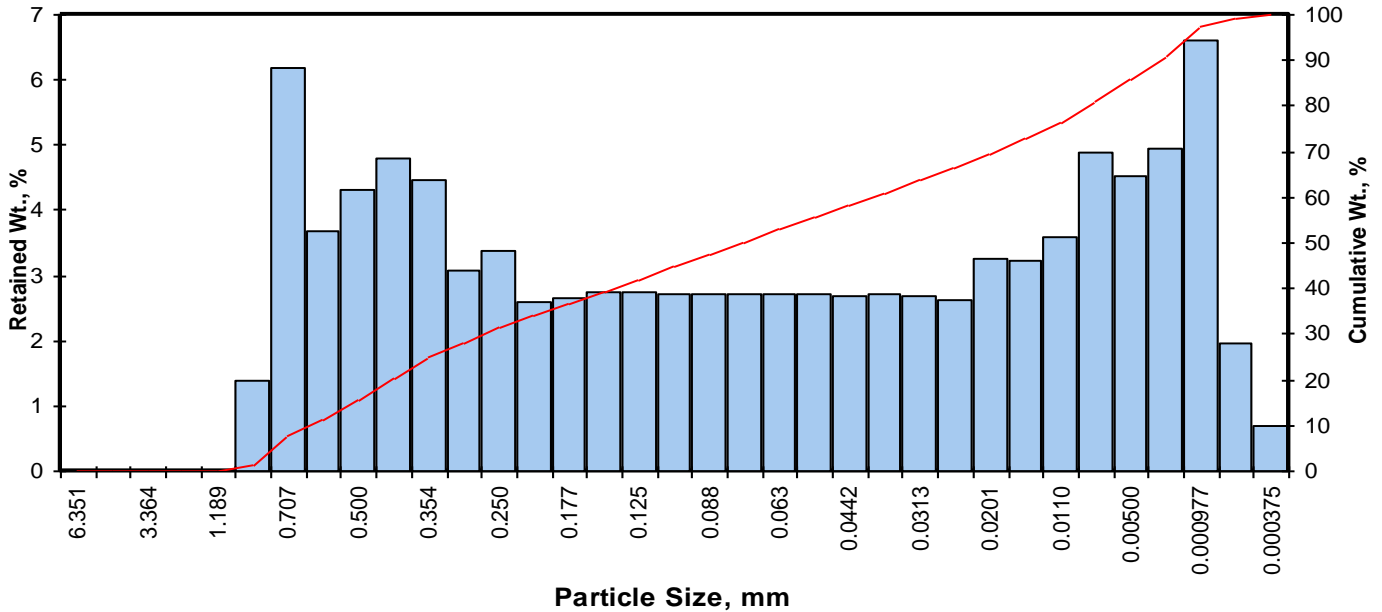
Measure	Trask	Inman	Folk-Ward
Median, phi	4.62	4.62	4.62
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.041	0.041	0.041
Mean, phi	3.85	4.94	4.83
Mean, in.	0.0027	0.0013	0.0014
Mean, mm	0.069	0.033	0.035
Sorting	3.693	2.959	2.876
Skewness	0.860	0.107	0.122
Kurtosis	0.144	0.558	1.002
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	9.88
Fine Sand	200	26.23
Silt	>0.005 mm	46.88
Clay	<0.005 mm	17.01
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M201-43.0-43.5
Depth, ft: 43.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	1.38	1.38	1.38
0.0278	0.707	0.50	25	6.17	6.17	7.55
0.0234	0.595	0.75	30	3.67	3.67	11.23
0.0197	0.500	1.00	35	4.31	4.31	15.54
0.0166	0.420	1.25	40	4.80	4.80	20.34
0.0139	0.354	1.50	45	4.47	4.47	24.81
0.0117	0.297	1.75	50	3.09	3.09	27.91
0.0098	0.250	2.00	60	3.39	3.39	31.30
0.0083	0.210	2.25	70	2.58	2.58	33.88
0.0070	0.177	2.50	80	2.64	2.64	36.52
0.0059	0.149	2.75	100	2.74	2.74	39.26
0.0049	0.125	3.00	120	2.75	2.75	42.02
0.0041	0.105	3.25	140	2.72	2.72	44.74
0.0035	0.088	3.50	170	2.70	2.70	47.44
0.0029	0.074	3.75	200	2.70	2.70	50.14
0.0025	0.063	4.00	230	2.70	2.70	52.84
0.0021	0.053	4.25	270	2.70	2.70	55.54
0.00174	0.0442	4.50	325	2.69	2.69	58.23
0.00146	0.0372	4.75	400	2.71	2.71	60.95
0.00123	0.0313	5.00	450	2.68	2.68	63.63
0.000986	0.0250	5.32	500	2.63	2.63	66.26
0.000790	0.0201	5.64	635	3.26	3.26	69.52
0.000615	0.0156	6.00		3.23	3.23	72.75
0.000435	0.0110	6.50		3.59	3.59	76.35
0.000308	0.00781	7.00		4.90	4.90	81.25
0.000197	0.00500	7.65		4.52	4.52	85.77
0.000077	0.00195	9.00		4.96	4.96	90.73
0.000038	0.000977	10.00		6.60	6.60	97.34
0.000019	0.000488	11.00		1.97	1.97	99.31
0.000015	0.000375	11.38		0.69	0.69	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.40	0.0299	0.760
10	0.67	0.0248	0.630
16	1.02	0.0194	0.492
25	1.51	0.0138	0.350
40	2.82	0.0056	0.142
50	3.74	0.0030	0.075
60	4.66	0.0016	0.039
75	6.31	0.0005	0.013
84	7.39	0.0002	0.006
90	8.80	0.0001	0.002
95	9.65	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	3.74	3.74	3.74
Median, in.	0.0030	0.0030	0.0030
Median, mm	0.075	0.075	0.075
Mean, phi	2.46	4.21	4.05
Mean, in.	0.0071	0.0021	0.0024
Mean, mm	0.181	0.054	0.060
Sorting	5.274	3.184	2.994
Skewness	0.885	0.148	0.213
Kurtosis	0.269	0.452	0.790

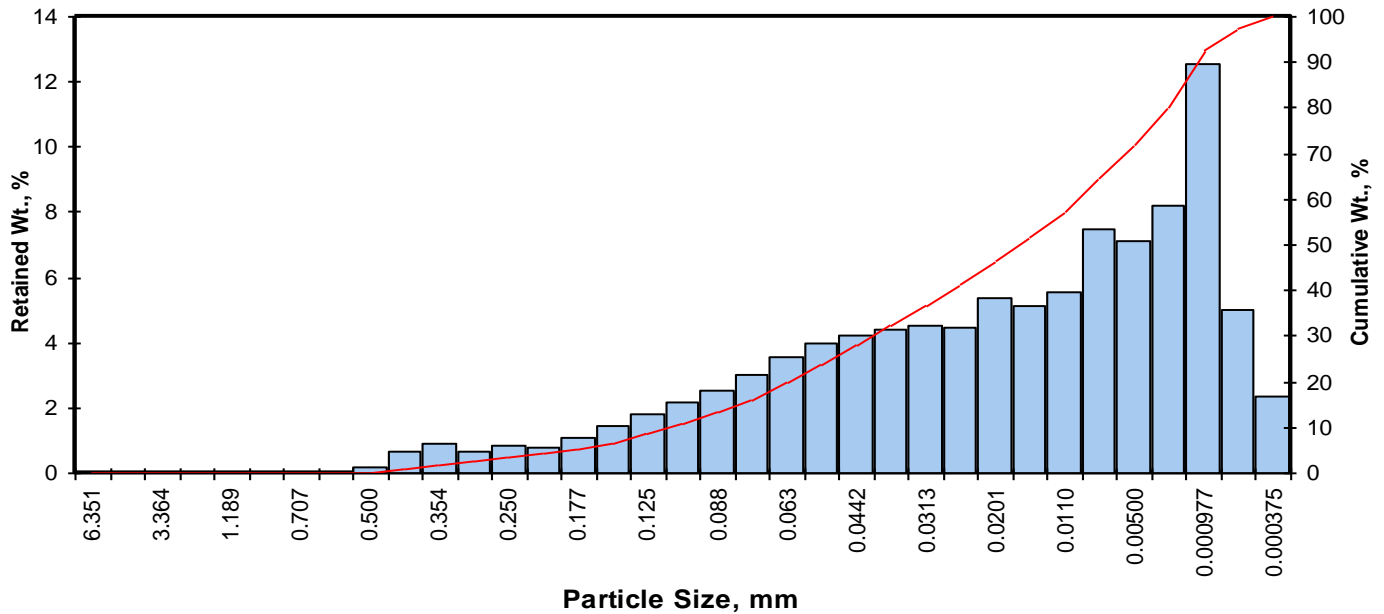
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	20.34
Fine Sand	200	29.80
Silt	>0.005 mm	35.63
Clay	<0.005 mm	14.23
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M201-57.0-57.5
Depth, ft: 57.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.02	0.02	0.02
0.0197	0.500	1.00	35	0.20	0.20	0.22
0.0166	0.420	1.25	40	0.68	0.68	0.90
0.0139	0.354	1.50	45	0.89	0.89	1.79
0.0117	0.297	1.75	50	0.68	0.68	2.47
0.0098	0.250	2.00	60	0.83	0.83	3.30
0.0083	0.210	2.25	70	0.81	0.81	4.11
0.0070	0.177	2.50	80	1.08	1.08	5.19
0.0059	0.149	2.75	100	1.44	1.44	6.64
0.0049	0.125	3.00	120	1.83	1.83	8.47
0.0041	0.105	3.25	140	2.16	2.16	10.63
0.0035	0.088	3.50	170	2.51	2.51	13.15
0.0029	0.074	3.75	200	2.99	3.00	16.14
0.0025	0.063	4.00	230	3.53	3.54	19.68
0.0021	0.053	4.25	270	3.98	3.99	23.67
0.00174	0.0442	4.50	325	4.23	4.24	27.90
0.00146	0.0372	4.75	400	4.42	4.43	32.33
0.00123	0.0313	5.00	450	4.49	4.50	36.83
0.000986	0.0250	5.32	500	4.43	4.44	41.27
0.000790	0.0201	5.64	635	5.39	5.40	46.67
0.000615	0.0156	6.00		5.11	5.12	51.79
0.000435	0.0110	6.50		5.52	5.53	57.32
0.000308	0.00781	7.00		7.48	7.49	64.81
0.000197	0.00500	7.65		7.08	7.09	71.90
0.000077	0.00195	9.00		8.21	8.22	80.13
0.000038	0.000977	10.00		12.50	12.52	92.65
0.000019	0.000488	11.00		4.97	4.98	97.63
0.000015	0.000375	11.38		2.37	2.37	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.46	0.0072	0.182
10	3.18	0.0044	0.111
16	3.74	0.0030	0.075
25	4.33	0.0020	0.050
40	5.23	0.0011	0.027
50	5.87	0.0007	0.017
60	6.68	0.0004	0.010
75	8.16	0.0001	0.004
84	9.31	0.0001	0.002
90	9.79	0.0000	0.001
95	10.47	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.87	5.87	5.87
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	5.23	6.52	6.31
Mean, in.	0.0010	0.0004	0.0005
Mean, mm	0.027	0.011	0.013
Sorting	3.767	2.786	2.608
Skewness	0.775	0.233	0.190
Kurtosis	0.211	0.439	0.859
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.90
Fine Sand	200	15.25
Silt	>0.005 mm	55.76
Clay	<0.005 mm	28.10
Total		100

PARTICLE SIZE SUMMARY

(METHODOLOGY: Sieve + Laser Diffraction Analysis - ASTM D422/4464)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3

Sample ID	Depth, ft.	Median Grain Size Description	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-M221-28.7-29.0	28.7-29.0	Medium sand	0.596	0.53	3.64	53.32	15.79	18.50	8.22	26.72
PT-M221-75.0-75.3	75.0-75.3	Medium sand	1.223	26.14	16.34	33.71	18.04	3.79	1.98	5.77
PT-M222-9.0-9.3	9.0-9.3	Medium sand	0.629	32.06	0.00	29.25	23.08	11.63	3.98	15.61
PT-M222-16.7-17.0	16.7-17.0	Medium sand	1.833	15.88	31.58	32.64	13.23	4.74	1.93	6.67
PT-M222-42.5-42.8	42.6	Silt	0.057	18.82	1.13	1.58	22.72	41.40	14.35	55.75
PT-M222-57.6-57.9	57.6-57.9	Fine sand	0.318	38.95	2.33	6.28	14.70	27.93	9.81	37.74
PT-M222-77.0-77.3	77.0-77.3	Medium sand	0.530	16.96	8.13	34.68	25.46	10.20	4.57	14.77
PT-M72D-19.3-19.6	19.3-19.6	Medium sand	1.532	21.15	23.52	25.45	18.27	7.69	3.92	11.60
PT-M66D-21.0-21.3	21.0-21.3	Coarse sand	3.287	42.91	15.65	18.97	12.64	6.91	2.93	9.84
PT-M140D-16.0-16.3	16.0-16.3	Silt	0.069	0.99	3.12	5.36	31.51	53.40	5.62	59.02
PT-M22D-25.2-25.5	25.2-25.5	Coarse sand	4.296	47.07	20.99	14.74	5.40	8.72	3.08	11.80
PT-M22D-33.0-33.3	33.0-33.3	Gravel	8.622	57.04	10.97	13.02	7.55	5.53	5.89	11.42
PT-M5D-19.0-19.3	19.0-19.3	Medium sand	1.245	17.95	19.82	33.97	20.63	5.97	1.66	7.63
PT-RIDB8-82.5-82.8	82.6	Gravel	14.475	64.34	4.45	4.93	7.94	11.82	6.51	18.33
PT-RIDB13-25.5-26.0	25.5-26.0	Fine sand	0.157	13.85	9.29	13.92	35.14	22.19	5.61	27.80
PT-RIDB14-16.0-16.5	16.0-16.5	Coarse sand	2.501	39.51	14.00	20.26	16.92	1.84	7.47	9.31

PARTICLE SIZE SUMMARY

(METHODOLOGY: Sieve + Laser Diffraction Analysis - ASTM D422/4464)

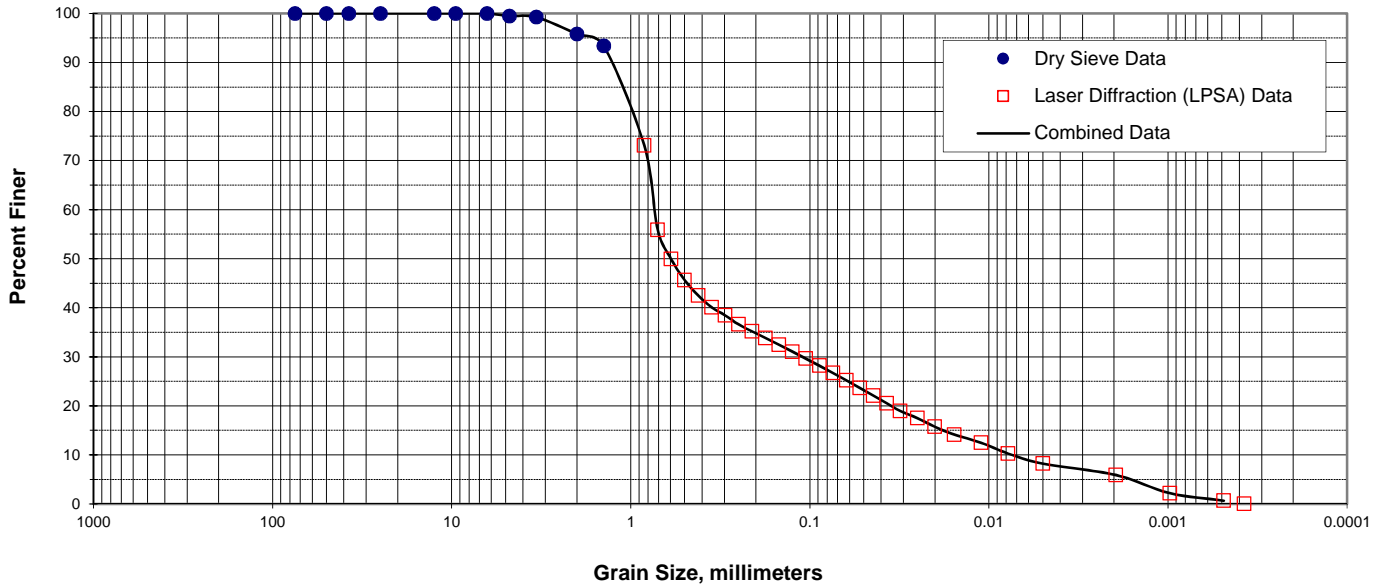
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3

Sample ID	Depth, ft.	Median Grain Size Description	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RIDB14-81.0-81.5	81.0-81.5	Medium sand	1.185	42.66	4.85	7.47	7.47	15.66	21.90	37.56
PT-M201-64.0-64.5	64.0-64.5	Fine sand	0.176	45.03	1.38	2.01	10.67	22.70	18.20	40.91
PT-M202-14.0-14.5	14.0-14.5	Medium sand	1.976	36.59	13.25	17.08	13.94	14.00	5.14	19.14

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M221-28.7-29.0
 Depth, ft: 28.7-29.0

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	0.00	100.00	0.033	0.841	0.25	20	26.91	73.09
0.250	6.35	-2.67	1/4	0.00	100.00	0.028	0.707	0.50	25	44.12	55.88
0.187	4.76	-2.25	4	0.53	99.47	0.023	0.595	0.75	30	50.08	49.92
0.132	3.36	-1.75	6	0.75	99.25	0.020	0.500	1.00	35	54.36	45.64
0.079	2.00	-1.00	10	4.17	95.83	0.017	0.420	1.25	40	57.49	42.51
0.056	1.414	-0.50	14	6.64	93.36	0.0139	0.3536	1.50	45	59.91	40.09
0.039	1.000	0.00	18	8.64	91.36	0.0117	0.2973	1.75	50	61.54	38.46
0.028	0.707	0.50	25	10.78	89.22	0.0098	0.2500	2.00	60	63.40	36.60
0.020	0.500	1.00	35	12.73	87.27	0.0083	0.2102	2.25	70	64.82	35.18
0.017	0.420	1.25	40	13.47	86.53	0.0070	0.1768	2.50	80	66.19	33.81
0.014	0.354	1.50	45	14.33	85.67	0.0059	0.1487	2.75	100	67.56	32.44
0.010	0.250	2.00	60	15.84	84.16	0.0049	0.1250	3.00	120	68.96	31.04
0.007	0.1768	2.50	80	17.44	82.56	0.0041	0.1051	3.25	140	70.39	29.61
0.005	0.1250	3.00	120	20.01	79.99	0.0035	0.0884	3.50	170	71.82	28.18
0.003	0.0743	3.75	200	25.92	74.08	0.0029	0.0743	3.75	200	73.28	26.72
0.002	0.0526	4.25	270	26.45	73.55	0.0025	0.0625	4.00	230	74.79	25.21
0.001	0.0372	4.75	400	26.52	73.48	0.0021	0.0526	4.25	270	76.34	23.66
			PAN	100	0.00	0.0017	0.0442	4.50	325	77.91	22.09
						0.0015	0.0372	4.75	400	79.49	20.51
						0.0012	0.0313	5.00	450	81.04	18.96
						0.0010	0.0250	5.32	500	82.52	17.48
						0.0008	0.0201	5.64	635	84.26	15.74
						0.0006	0.0156	6.00		85.85	14.15
						0.0004	0.0110	6.50		87.52	12.48
						0.0003	0.0078	7.00		89.73	10.27
						0.0002	0.0050	7.65		91.78	8.22
						0.00008	0.00195	9.00		94.11	5.89
						0.00004	0.00098	10.00		97.81	2.19
						0.00002	0.00049	11.00		99.34	0.66
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M221-28.7-29.0
Depth, ft: 28.7-29.0

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	0.0	100.0	0.0
0.250	6.35	-2.67	1/4	0.0	100.0	0.0
0.1873	4.76	-2.25	4	0.5	99.5	0.5
0.1324	3.364	-1.75	6	0.2	99.2	0.8
0.0787	2.000	-1.00	10	3.4	95.8	4.2
0.0557	1.414	-0.50	14	2.5	93.4	6.6
0.0331	0.841	0.25	20	20.3	73.1	26.9
0.0278	0.707	0.50	25	17.2	55.9	44.1
0.0234	0.595	0.75	30	6.0	49.9	50.1
0.01969	0.500	1.00	35	4.3	45.6	54.4
0.01655	0.420	1.25	40	3.1	42.5	57.5
0.01392	0.354	1.50	45	2.4	40.1	59.9
0.01170	0.2973	1.75	50	1.6	38.5	61.5
0.00984	0.2500	2.00	60	1.9	36.6	63.4
0.00828	0.2102	2.25	70	1.4	35.2	64.8
0.00696	0.1768	2.50	80	1.4	33.8	66.2
0.00585	0.1487	2.75	100	1.4	32.4	67.6
0.00492	0.1250	3.00	120	1.4	31.0	69.0
0.00414	0.1051	3.25	140	1.4	29.6	70.4
0.00348	0.0884	3.50	170	1.4	28.2	71.8
0.00293	0.0743	3.75	200	1.5	26.7	73.3
0.00246	0.0625	4.00	230	1.5	25.2	74.8
0.00207	0.0526	4.25	270	1.6	23.7	76.3
0.00174	0.0442	4.50	325	1.6	22.1	77.9
0.00146	0.0372	4.75	400	1.6	20.5	79.5
0.00123	0.0313	5.00	450	1.6	19.0	81.0
0.00099	0.0250	5.32	500	1.5	17.5	82.5
0.00079	0.0201	5.64	635	1.7	15.7	84.3
0.00062	0.0156	6.00		1.6	14.1	85.9
0.00043	0.0110	6.50		1.7	12.5	87.5
0.00031	0.0078	7.00		2.2	10.3	89.7
0.00020	0.0050	7.65		2.0	8.2	91.8
0.00008	0.0020	9.00		2.3	5.9	94.1
0.00004	0.0010	10.00		3.7	2.2	97.8
0.00002	0.0005	11.00		1.5	0.7	99.3
0.00001	0.0004	11.38		0.7	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.83	0.0701	1.780
10	-0.38	0.0511	1.297
16	-0.15	0.0438	1.112
25	0.18	0.0348	0.883
40	0.44	0.0290	0.737
50	0.75	0.0235	0.596
60	1.51	0.0138	0.350
75	4.03	0.0024	0.061
84	5.59	0.0008	0.021
90	7.08	0.0003	0.007
95	9.24	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	0.75	0.75	0.75
Median, in.	0.0235	0.0235	0.0235
Median, mm	0.596	0.596	0.596
Mean, phi	1.08	2.72	2.06
Mean, in.	0.0186	0.0060	0.0094
Mean, mm	0.472	0.152	0.240
Sorting	3.804	2.873	2.963
Skewness	0.390	0.687	0.687
Kurtosis	0.319	0.753	1.071

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

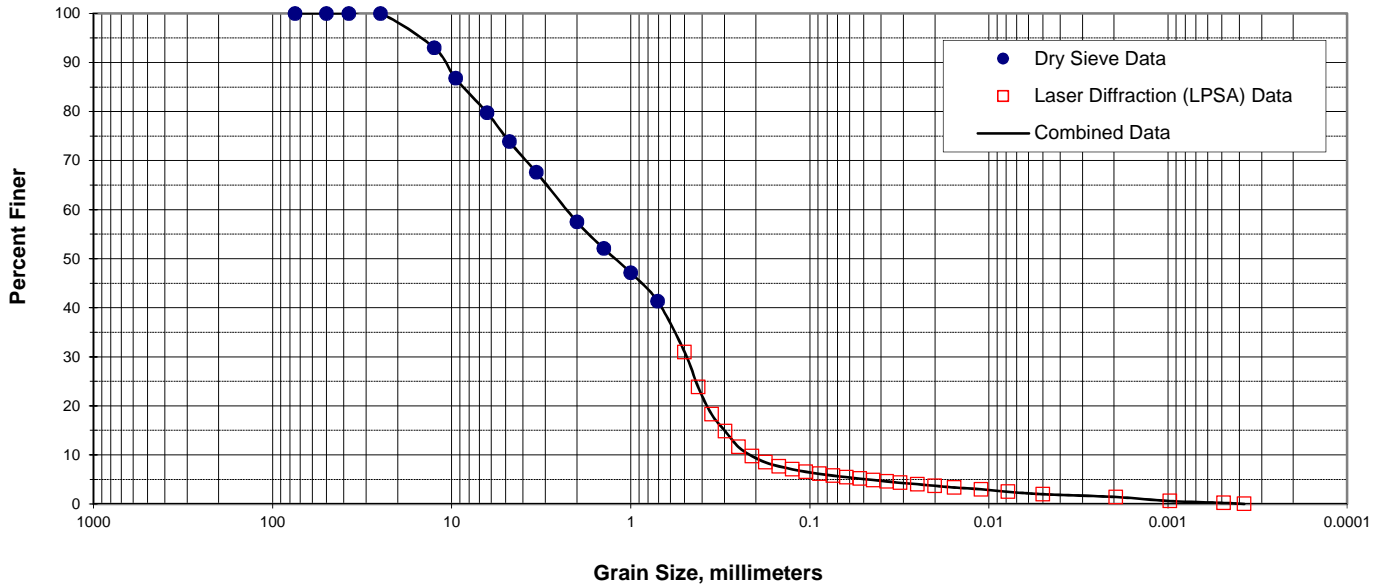
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	0.5
Coarse Sand	10	3.6
Medium Sand	40	53.3
Fine Sand	200	15.8
Silt	>0.005 mm	18.5
Clay	<0.005 mm	8.2
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M221-75.0-75.3
 Depth, ft: 75.0-75.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	7.02	92.98	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	13.23	86.77	0.033	0.841	0.25	20	27.89	72.11
0.250	6.35	-2.67	1/4	20.23	79.77	0.028	0.707	0.50	25	50.67	49.33
0.187	4.76	-2.25	4	26.14	73.86	0.023	0.595	0.75	30	60.60	39.40
0.132	3.36	-1.75	6	32.41	67.59	0.020	0.500	1.00	35	69.06	30.94
0.079	2.00	-1.00	10	42.48	57.52	0.017	0.420	1.25	40	76.19	23.81
0.056	1.414	-0.50	14	47.92	52.08	0.0139	0.3536	1.50	45	81.73	18.27
0.039	1.000	0.00	18	52.88	47.12	0.0117	0.2973	1.75	50	85.14	14.86
0.028	0.707	0.50	25	58.69	41.31	0.0098	0.2500	2.00	60	88.40	11.60
0.020	0.500	1.00	35	66.41	33.59	0.0083	0.2102	2.25	70	90.24	9.76
0.017	0.420	1.25	40	70.25	29.75	0.0070	0.1768	2.50	80	91.52	8.48
0.014	0.354	1.50	45	74.91	25.09	0.0059	0.1487	2.75	100	92.34	7.66
0.010	0.250	2.00	60	83.01	16.99	0.0049	0.1250	3.00	120	92.95	7.05
0.007	0.1768	2.50	80	87.70	12.30	0.0041	0.1051	3.25	140	93.45	6.55
0.005	0.1250	3.00	120	90.86	9.14	0.0035	0.0884	3.50	170	93.87	6.13
0.003	0.0743	3.75	200	93.36	6.64	0.0029	0.0743	3.75	200	94.23	5.77
0.002	0.0526	4.25	270	93.57	6.43	0.0025	0.0625	4.00	230	94.54	5.46
0.001	0.0372	4.75	400	93.62	6.38	0.0021	0.0526	4.25	270	94.85	5.15
			PAN	100	0.00	0.0017	0.0442	4.50	325	95.13	4.87
						0.0015	0.0372	4.75	400	95.40	4.60
						0.0012	0.0313	5.00	450	95.69	4.31
						0.0010	0.0250	5.32	500	95.97	4.03
						0.0008	0.0201	5.64	635	96.31	3.69
						0.0006	0.0156	6.00		96.64	3.36
						0.0004	0.0110	6.50		97.01	2.99
						0.0003	0.0078	7.00		97.52	2.48
						0.0002	0.0050	7.65		98.02	1.98
						0.00008	0.00195	9.00		98.59	1.41
						0.00004	0.00098	10.00		99.41	0.59
						0.00002	0.00049	11.00		99.80	0.20
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M221-75.0-75.3
Depth, ft: 75.0-75.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA
 (Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	7.0	93.0	7.0
0.374	9.50	-3.25	3/8	6.2	86.8	13.2
0.250	6.35	-2.67	1/4	7.0	79.8	20.2
0.1873	4.76	-2.25	4	5.9	73.9	26.1
0.1324	3.364	-1.75	6	6.3	67.6	32.4
0.0787	2.000	-1.00	10	10.1	57.5	42.5
0.0557	1.414	-0.50	14	5.4	52.1	47.9
0.0394	1.000	0.00	18	5.0	47.1	52.9
0.0278	0.707	0.50	25	5.8	41.3	58.7
0.0197	0.500	1.00	35	10.4	30.9	69.1
0.01655	0.420	1.25	40	7.1	23.8	76.2
0.01392	0.354	1.50	45	5.5	18.3	81.7
0.01170	0.2973	1.75	50	3.4	14.9	85.1
0.00984	0.2500	2.00	60	3.3	11.6	88.4
0.00828	0.2102	2.25	70	1.8	9.8	90.2
0.00696	0.1768	2.50	80	1.3	8.5	91.5
0.00585	0.1487	2.75	100	0.8	7.7	92.3
0.00492	0.1250	3.00	120	0.6	7.0	93.0
0.00414	0.1051	3.25	140	0.5	6.5	93.5
0.00348	0.0884	3.50	170	0.4	6.1	93.9
0.00293	0.0743	3.75	200	0.4	5.8	94.2
0.00246	0.0625	4.00	230	0.3	5.5	94.5
0.00207	0.0526	4.25	270	0.3	5.1	94.9
0.00174	0.0442	4.50	325	0.3	4.9	95.1
0.00146	0.0372	4.75	400	0.3	4.6	95.4
0.00123	0.0313	5.00	450	0.3	4.3	95.7
0.00099	0.0250	5.32	500	0.3	4.0	96.0
0.00079	0.0201	5.64	635	0.3	3.7	96.3
0.00062	0.0156	6.00		0.3	3.4	96.6
0.00043	0.0110	6.50		0.4	3.0	97.0
0.00031	0.0078	7.00		0.5	2.5	97.5
0.00020	0.0050	7.65		0.5	2.0	98.0
0.00008	0.0020	9.00		0.6	1.4	98.6
0.00004	0.0010	10.00		0.8	0.6	99.4
0.00002	0.0005	11.00		0.4	0.2	99.8
0.00001	0.0004	11.38		0.2	0.0	100.0
TOTALS				100.0	100.0	

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.93	0.6007	15.259
10	-3.45	0.4315	10.959
16	-3.02	0.3190	8.102
25	-2.33	0.1980	5.029
40	-1.18	0.0895	2.273
50	-0.29	0.0482	1.223
60	0.56	0.0266	0.677
75	1.21	0.0170	0.433
84	1.67	0.0124	0.315
90	2.22	0.0085	0.215
95	4.38	0.0019	0.048

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.29	-0.29	-0.29
Median, in.	0.0482	0.0482	0.0482
Median, mm	1.223	1.223	1.223
Mean, phi	-1.45	-0.68	-0.55
Mean, in.	0.1075	0.0629	0.0575
Mean, mm	2.731	1.598	1.461
Sorting	3.409	2.342	2.431
Skewness	1.206	-0.165	-0.020
Kurtosis	0.214	0.775	0.963

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

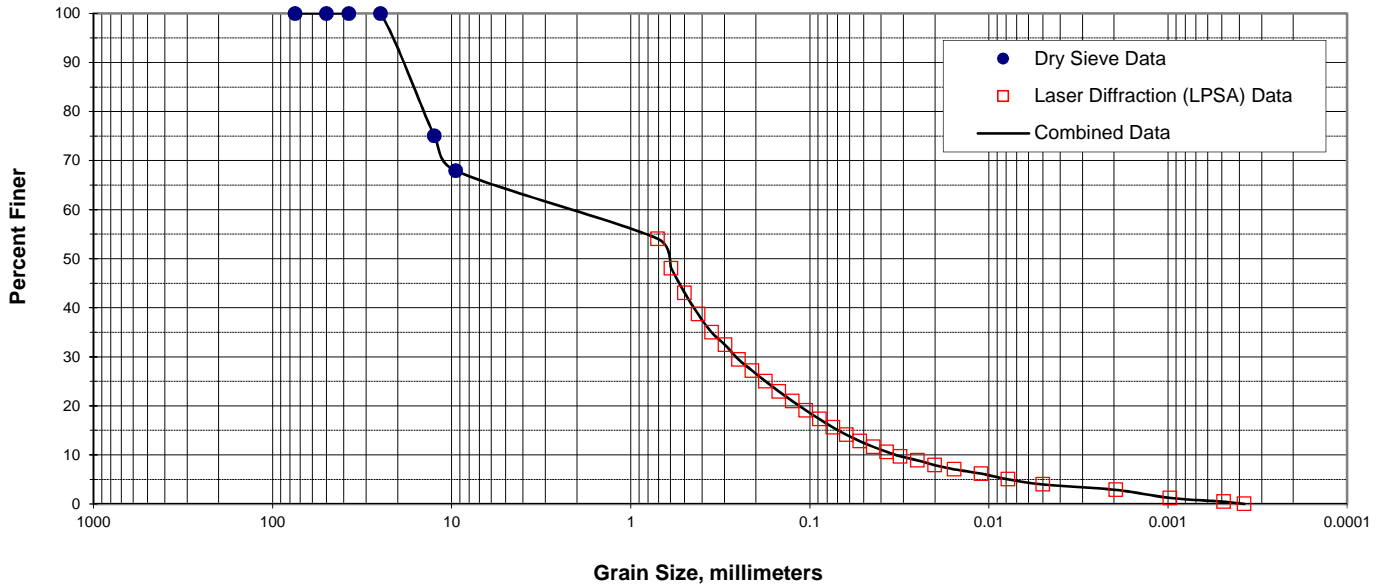
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	26.1
Coarse Sand	10	16.3
Medium Sand	40	33.7
Fine Sand	200	18.0
Silt	>0.005 mm	3.8
Clay	<0.005 mm	2.0
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M222-9.0-9.3
 Depth, ft: 9.0-9.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	24.94	75.06	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	32.06	67.94	0.033	0.841	0.25	20	30.12	69.88
0.250	6.35	-2.67	1/4	39.64	60.36	0.028	0.707	0.50	25	45.93	54.07
0.187	4.76	-2.25	4	43.85	56.15	0.023	0.595	0.75	30	51.93	48.07
0.132	3.36	-1.75	6	49.61	50.39	0.020	0.500	1.00	35	56.96	43.04
0.079	2.00	-1.00	10	58.34	41.66	0.017	0.420	1.25	40	61.31	38.69
0.056	1.414	-0.50	14	63.27	36.73	0.0139	0.3536	1.50	45	65.02	34.98
0.039	1.000	0.00	18	67.10	32.90	0.0117	0.2973	1.75	50	67.58	32.42
0.028	0.707	0.50	25	70.47	29.53	0.0098	0.2500	2.00	60	70.54	29.46
0.020	0.500	1.00	35	73.79	26.21	0.0083	0.2102	2.25	70	72.81	27.19
0.017	0.420	1.25	40	75.19	24.81	0.0070	0.1768	2.50	80	74.99	25.01
0.014	0.354	1.50	45	76.82	23.18	0.0059	0.1487	2.75	100	77.07	22.93
0.010	0.250	2.00	60	79.99	20.01	0.0049	0.1250	3.00	120	79.05	20.95
0.007	0.1768	2.50	80	82.90	17.10	0.0041	0.1051	3.25	140	80.93	19.07
0.005	0.1250	3.00	120	86.45	13.55	0.0035	0.0884	3.50	170	82.72	17.28
0.003	0.0743	3.75	200	90.79	9.21	0.0029	0.0743	3.75	200	84.39	15.61
0.002	0.0526	4.25	270	91.36	8.64	0.0025	0.0625	4.00	230	85.90	14.10
0.001	0.0372	4.75	400	91.40	8.60	0.0021	0.0526	4.25	270	87.22	12.78
			PAN	100	0.00	0.0017	0.0442	4.50	325	88.37	11.63
						0.0015	0.0372	4.75	400	89.38	10.62
						0.0012	0.0313	5.00	450	90.29	9.71
						0.0010	0.0250	5.32	500	91.12	8.88
						0.0008	0.0201	5.64	635	92.08	7.92
						0.0006	0.0156	6.00		92.95	7.05
						0.0004	0.0110	6.50		93.84	6.16
						0.0003	0.0078	7.00		94.99	5.01
						0.0002	0.0050	7.65		96.02	3.98
						0.00008	0.00195	9.00		97.14	2.86
						0.00004	0.00098	10.00		98.78	1.22
						0.00002	0.00049	11.00		99.55	0.45
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-9.0-9.3
Depth, ft: 9.0-9.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	24.9	75.1	24.9
0.374	9.50	-3.25	3/8	7.1	67.9	32.1
0.0278	0.707	0.50	25	13.9	54.1	45.9
0.0234	0.595	0.75	30	6.0	48.1	51.9
0.0197	0.500	1.00	35	5.0	43.0	57.0
0.0166	0.420	1.25	40	4.4	38.7	61.3
0.01392	0.354	1.50	45	3.7	35.0	65.0
0.01170	0.297	1.75	50	2.6	32.4	67.6
0.00984	0.2500	2.00	60	3.0	29.5	70.5
0.00828	0.2102	2.25	70	2.3	27.2	72.8
0.00696	0.1768	2.50	80	2.2	25.0	75.0
0.00585	0.1487	2.75	100	2.1	22.9	77.1
0.00492	0.1250	3.00	120	2.0	21.0	79.0
0.00414	0.1051	3.25	140	1.9	19.1	80.9
0.00348	0.0884	3.50	170	1.8	17.3	82.7
0.00293	0.0743	3.75	200	1.7	15.6	84.4
0.00246	0.0625	4.00	230	1.5	14.1	85.9
0.00207	0.0526	4.25	270	1.3	12.8	87.2
0.00174	0.0442	4.50	325	1.2	11.6	88.4
0.00146	0.0372	4.75	400	1.0	10.6	89.4
0.00123	0.0313	5.00	450	0.9	9.7	90.3
0.00099	0.0250	5.32	500	0.8	8.9	91.1
0.00079	0.0201	5.64	635	1.0	7.9	92.1
0.00062	0.0156	6.00		0.9	7.1	92.9
0.00043	0.0110	6.50		0.9	6.2	93.8
0.00031	0.0078	7.00		1.2	5.0	95.0
0.00020	0.0050	7.65		1.0	4.0	96.0
0.00008	0.0020	9.00		1.1	2.9	97.1
0.00004	0.0010	10.00		1.6	1.2	98.8
0.00002	0.0005	11.00		0.8	0.5	99.5
0.00001	0.0004	11.38		0.5	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.44	0.8566	21.758
10	-4.24	0.7455	18.935
16	-4.00	0.6310	16.027
25	-3.64	0.4910	12.472
40	-1.10	0.0846	2.148
50	0.67	0.0248	0.629
60	1.17	0.0174	0.443
75	2.50	0.0070	0.177
84	3.69	0.0030	0.077
90	4.92	0.0013	0.033
95	7.01	0.0003	0.008

Measure	Trask	Inman	Folk-Ward
Median, phi	0.67	0.67	0.67
Median, in.	0.0248	0.0248	0.0248
Median, mm	0.629	0.629	0.629
Mean, phi	-2.66	-0.16	0.12
Mean, in.	0.2490	0.0438	0.0362
Mean, mm	6.324	1.114	0.920
Sorting	8.402	3.847	3.659
Skewness	2.361	-0.214	-0.054
Kurtosis	0.325	0.488	0.764

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

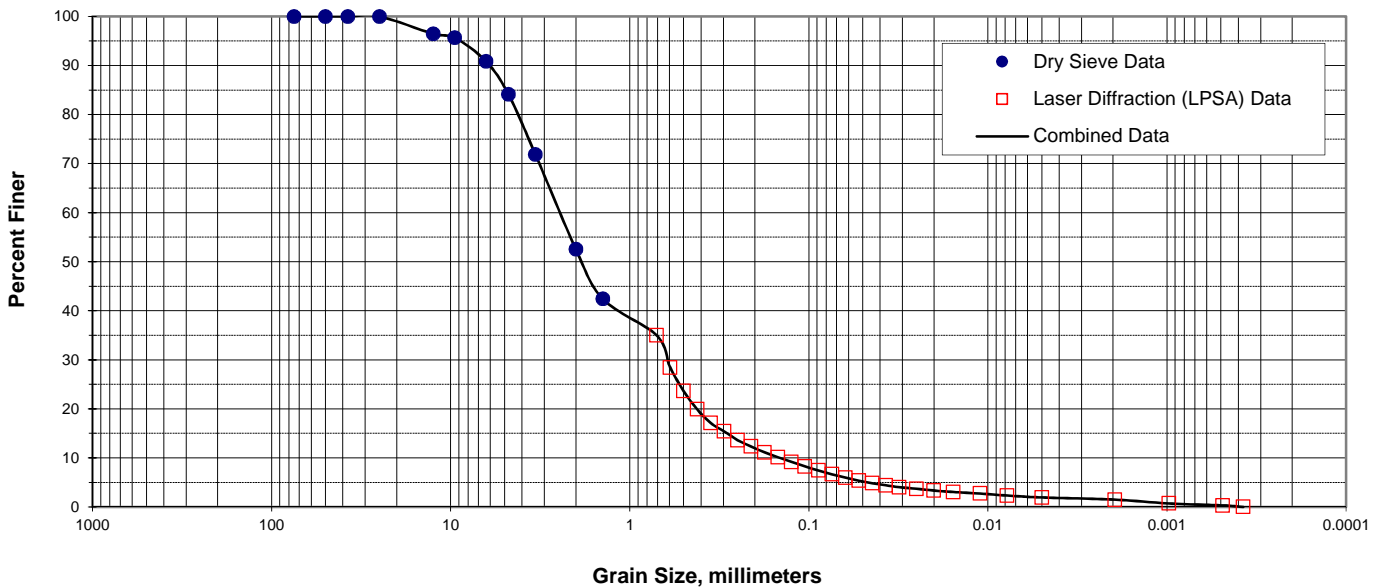
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	32.1
Coarse Sand	10	0.0
Medium Sand	40	29.2
Fine Sand	200	23.1
Silt	>0.005 mm	11.6
Clay	<0.005 mm	4.0
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-16.7-17.0
Depth, ft: 16.7-17.0

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	3.54	96.46	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	4.32	95.68	0.033	0.841	0.25	20	45.32	54.68
0.250	6.35	-2.67	1/4	9.15	90.85	0.028	0.707	0.50	25	65.03	34.97
0.187	4.76	-2.25	4	15.88	84.12	0.023	0.595	0.75	30	71.57	28.43
0.132	3.36	-1.75	6	28.13	71.87	0.020	0.500	1.00	35	76.36	23.64
0.079	2.00	-1.00	10	47.46	52.54	0.017	0.420	1.25	40	80.10	19.90
0.056	1.414	-0.50	14	57.58	42.42	0.0139	0.3536	1.50	45	82.87	17.13
0.039	1.000	0.00	18	65.41	34.59	0.0117	0.2973	1.75	50	84.58	15.42
0.028	0.707	0.50	25	71.90	28.10	0.0098	0.2500	2.00	60	86.38	13.62
0.020	0.500	1.00	35	77.33	22.67	0.0083	0.2102	2.25	70	87.68	12.32
0.017	0.420	1.25	40	79.22	20.78	0.0070	0.1768	2.50	80	88.87	11.13
0.014	0.354	1.50	45	81.24	18.76	0.0059	0.1487	2.75	100	89.87	10.13
0.010	0.250	2.00	60	84.53	15.47	0.0049	0.1250	3.00	120	90.83	9.17
0.007	0.1768	2.50	80	87.08	12.92	0.0041	0.1051	3.25	140	91.74	8.26
0.005	0.1250	3.00	120	89.95	10.05	0.0035	0.0884	3.50	170	92.56	7.44
0.003	0.0743	3.75	200	93.25	6.75	0.0029	0.0743	3.75	200	93.33	6.67
0.002	0.0526	4.25	270	93.56	6.44	0.0025	0.0625	4.00	230	94.02	5.98
0.001	0.0372	4.75	400	93.60	6.40	0.0021	0.0526	4.25	270	94.64	5.36
			PAN	100	0.00	0.0017	0.0442	4.50	325	95.16	4.84
						0.0015	0.0372	4.75	400	95.59	4.41
						0.0012	0.0313	5.00	450	95.97	4.03
						0.0010	0.0250	5.32	500	96.30	3.70
						0.0008	0.0201	5.64	635	96.65	3.35
						0.0006	0.0156	6.00		96.95	3.05
						0.0004	0.0110	6.50		97.27	2.73
						0.0003	0.0078	7.00		97.68	2.32
						0.0002	0.0050	7.65		98.07	1.93
						0.00008	0.00195	9.00		98.52	1.48
						0.00004	0.00098	10.00		99.29	0.71
						0.00002	0.00049	11.00		99.69	0.31
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-16.7-17.0
Depth, ft: 16.7-17.0

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA							COMBINED DATA STATISTICS			
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained	Cumulative Percent greater than (retained)			
Inches	Millimeters						Weight percent	Phi Value	Particle Size	
							Inches	Millimeters		
2.95	75.0	-6.23	3"	0.0	100.0	0.0				
1.97	50.0	-5.64	2"	0.0	100.0	0.0				
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0				
0.984	25.0	-4.64	1.00	0.0	100.0	0.0				
0.492	12.5	-3.64	1/2	3.5	96.5	3.5				
0.374	9.50	-3.25	3/8	0.8	95.7	4.3				
0.250	6.35	-2.67	1/4	4.8	90.9	9.1				
0.1873	4.76	-2.25	4	6.7	84.1	15.9				
0.1324	3.364	-1.75	6	12.2	71.9	28.1				
0.0787	2.000	-1.00	10	19.3	52.5	47.5				
0.0557	1.414	-0.50	14	10.1	42.4	57.6				
0.0278	0.707	0.50	25	7.4	35.0	65.0				
0.0234	0.595	0.75	30	6.5	28.4	71.6				
0.0197	0.500	1.00	35	4.8	23.6	76.4				
0.01655	0.420	1.25	40	3.7	19.9	80.1				
0.01392	0.354	1.50	45	2.8	17.1	82.9				
0.01170	0.297	1.75	50	1.7	15.4	84.6				
0.00984	0.2500	2.00	60	1.8	13.6	86.4				
0.00828	0.2102	2.25	70	1.3	12.3	87.7				
0.00696	0.1768	2.50	80	1.2	11.1	88.9				
0.00585	0.1487	2.75	100	1.0	10.1	89.9				
0.00492	0.1250	3.00	120	1.0	9.2	90.8				
0.00414	0.1051	3.25	140	0.9	8.3	91.7				
0.00348	0.0884	3.50	170	0.8	7.4	92.6				
0.00293	0.0743	3.75	200	0.8	6.7	93.3				
0.00246	0.0625	4.00	230	0.7	6.0	94.0				
0.00207	0.0526	4.25	270	0.6	5.4	94.6				
0.00174	0.0442	4.50	325	0.5	4.8	95.2				
0.00146	0.0372	4.75	400	0.4	4.4	95.6				
0.00123	0.0313	5.00	450	0.4	4.0	96.0				
0.00099	0.0250	5.32	500	0.3	3.7	96.3				
0.00079	0.0201	5.64	635	0.4	3.4	96.6				
0.00062	0.0156	6.00		0.3	3.1	96.9				
0.00043	0.0110	6.50		0.3	2.7	97.3				
0.00031	0.0078	7.00		0.4	2.3	97.7				
0.00020	0.0050	7.65		0.4	1.9	98.1				
0.00008	0.0020	9.00		0.5	1.5	98.5				
0.00004	0.0010	10.00		0.8	0.7	99.3				
0.00002	0.0005	11.00		0.4	0.3	99.7				
0.00001	0.0004	11.38		0.3	0.0	100.0				
TOTALS				100.0	100.0	100.0				

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.87	-0.87	-0.87
Median, in.	0.0722	0.0722	0.0722
Median, mm	1.833	1.833	1.833
Mean, phi	-1.07	-0.29	-0.48
Mean, in.	0.0827	0.0481	0.0551
Mean, mm	2.100	1.223	1.400
Sorting	2.645	1.955	2.127
Skewness	0.758	0.299	0.347
Kurtosis	0.263	0.941	1.108

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)
Medium sand	

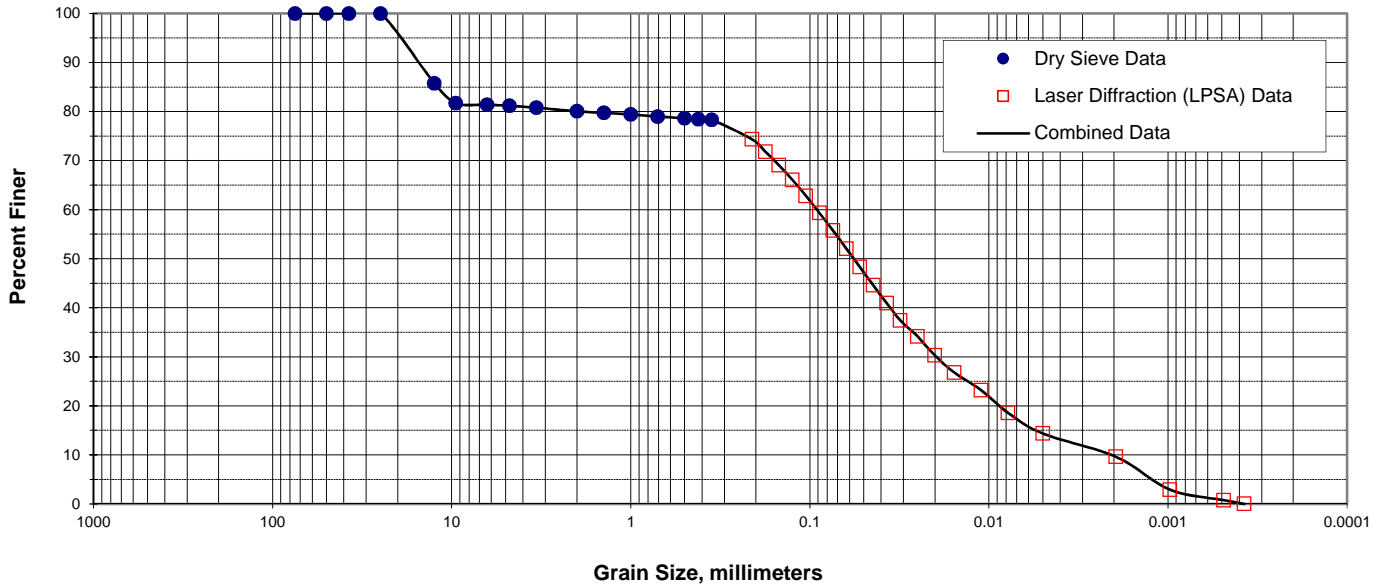
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	15.9
Coarse Sand	10	31.6
Medium Sand	40	32.6
Fine Sand	200	13.2
Silt	>0.005 mm	4.7
Clay	<0.005 mm	1.9
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M222-42.5-42.8
 Depth, ft: 42.6

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	14.23	85.77	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	18.28	81.72	0.033	0.841	0.25	20	0.98	99.02
0.250	6.35	-2.67	1/4	18.60	81.40	0.028	0.707	0.50	25	6.02	93.98
0.187	4.76	-2.25	4	18.82	81.18	0.023	0.595	0.75	30	8.99	91.01
0.132	3.36	-1.75	6	19.22	80.78	0.020	0.500	1.00	35	12.06	87.94
0.079	2.00	-1.00	10	19.95	80.05	0.017	0.420	1.25	40	15.24	84.76
0.056	1.414	-0.50	14	20.27	79.73	0.0139	0.3536	1.50	45	18.24	81.76
0.039	1.000	0.00	18	20.57	79.43	0.0117	0.2973	1.75	50	20.47	79.53
0.028	0.707	0.50	25	21.01	78.99	0.0098	0.2500	2.00	60	23.26	76.74
0.020	0.500	1.00	35	21.37	78.63	0.0083	0.2102	2.25	70	25.66	74.34
0.017	0.420	1.25	40	21.53	78.47	0.0070	0.1768	2.50	80	28.22	71.78
0.014	0.354	1.50	45	21.70	78.30	0.0059	0.1487	2.75	100	30.96	69.04
0.010	0.250	2.00	60	22.08	77.92	0.0049	0.1250	3.00	120	33.94	66.06
0.007	0.1768	2.50	80	22.57	77.43	0.0041	0.1051	3.25	140	37.18	62.82
0.005	0.1250	3.00	120	23.89	76.11	0.0035	0.0884	3.50	170	40.64	59.36
0.003	0.0743	3.75	200	28.59	71.41	0.0029	0.0743	3.75	200	44.25	55.75
0.002	0.0526	4.25	270	29.59	70.41	0.0025	0.0625	4.00	230	47.95	52.05
0.001	0.0372	4.75	400	29.64	70.36	0.0021	0.0526	4.25	270	51.70	48.30
			PAN	100	0.00	0.0017	0.0442	4.50	325	55.43	44.57
						0.0015	0.0372	4.75	400	59.09	40.91
						0.0012	0.0313	5.00	450	62.57	37.43
						0.0010	0.0250	5.32	500	65.85	34.15
						0.0008	0.0201	5.64	635	69.70	30.30
						0.0006	0.0156	6.00		73.20	26.80
						0.0004	0.0110	6.50		76.80	23.20
						0.0003	0.0078	7.00		81.43	18.57
						0.0002	0.0050	7.65		85.65	14.35
						0.00008	0.00195	9.00		90.39	9.61
						0.00004	0.00098	10.00		97.09	2.91
						0.00002	0.00049	11.00		99.23	0.77
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-42.5-42.8
Depth, ft: 42.6

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	14.2	85.8	14.2
0.374	9.50	-3.25	3/8	4.1	81.7	18.3
0.250	6.35	-2.67	1/4	0.3	81.4	18.6
0.1873	4.76	-2.25	4	0.2	81.2	18.8
0.1324	3.364	-1.75	6	0.4	80.8	19.2
0.0787	2.000	-1.00	10	0.7	80.0	20.0
0.0557	1.414	-0.50	14	0.3	79.7	20.3
0.0394	1.000	0.00	18	0.3	79.4	20.6
0.0278	0.707	0.50	25	0.4	79.0	21.0
0.0197	0.500	1.00	35	0.4	78.6	21.4
0.01655	0.420	1.25	40	0.2	78.5	21.5
0.01392	0.354	1.50	45	0.2	78.3	21.7
0.00828	0.2102	2.25	70	4.0	74.3	25.7
0.00696	0.1768	2.50	80	2.6	71.8	28.2
0.00585	0.1487	2.75	100	2.7	69.0	31.0
0.00492	0.1250	3.00	120	3.0	66.1	33.9
0.00414	0.1051	3.25	140	3.2	62.8	37.2
0.00348	0.0884	3.50	170	3.5	59.4	40.6
0.00293	0.0743	3.75	200	3.6	55.8	44.2
0.00246	0.0625	4.00	230	3.7	52.1	47.9
0.00207	0.0526	4.25	270	3.8	48.3	51.7
0.00174	0.0442	4.50	325	3.7	44.6	55.4
0.00146	0.0372	4.75	400	3.7	40.9	59.1
0.00123	0.0313	5.00	450	3.5	37.4	62.6
0.00099	0.0250	5.32	500	3.3	34.2	65.8
0.00079	0.0201	5.64	635	3.9	30.3	69.7
0.00062	0.0156	6.00		3.5	26.8	73.2
0.00043	0.0110	6.50		3.6	23.2	76.8
0.00031	0.0078	7.00		4.6	18.6	81.4
0.00020	0.0050	7.65		4.2	14.3	85.7
0.00008	0.0020	9.00		4.7	9.6	90.4
0.00004	0.0010	10.00		6.7	2.9	97.1
0.00002	0.0005	11.00		2.1	0.8	99.2
0.00001	0.0004	11.38		0.8	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.29	0.7716	19.598
10	-3.94	0.6048	15.361
16	-3.47	0.4366	11.089
25	2.13	0.0090	0.229
40	3.45	0.0036	0.091
50	4.14	0.0022	0.057
60	4.82	0.0014	0.036
75	6.25	0.0005	0.013
84	7.39	0.0002	0.006
90	8.89	0.0001	0.002
95	9.69	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.14	4.14	4.14
Median, in.	0.0022	0.0022	0.0022
Median, mm	0.057	0.057	0.057
Mean, phi	3.05	1.96	2.69
Mean, in.	0.0048	0.0101	0.0061
Mean, mm	0.121	0.257	0.155
Sorting	4.176	5.432	4.834
Skewness	0.965	-0.401	-0.303
Kurtosis	0.007	0.287	1.389

Grain Size Description (ASTM-USCS Scale)	Silt (based on Trask Median)
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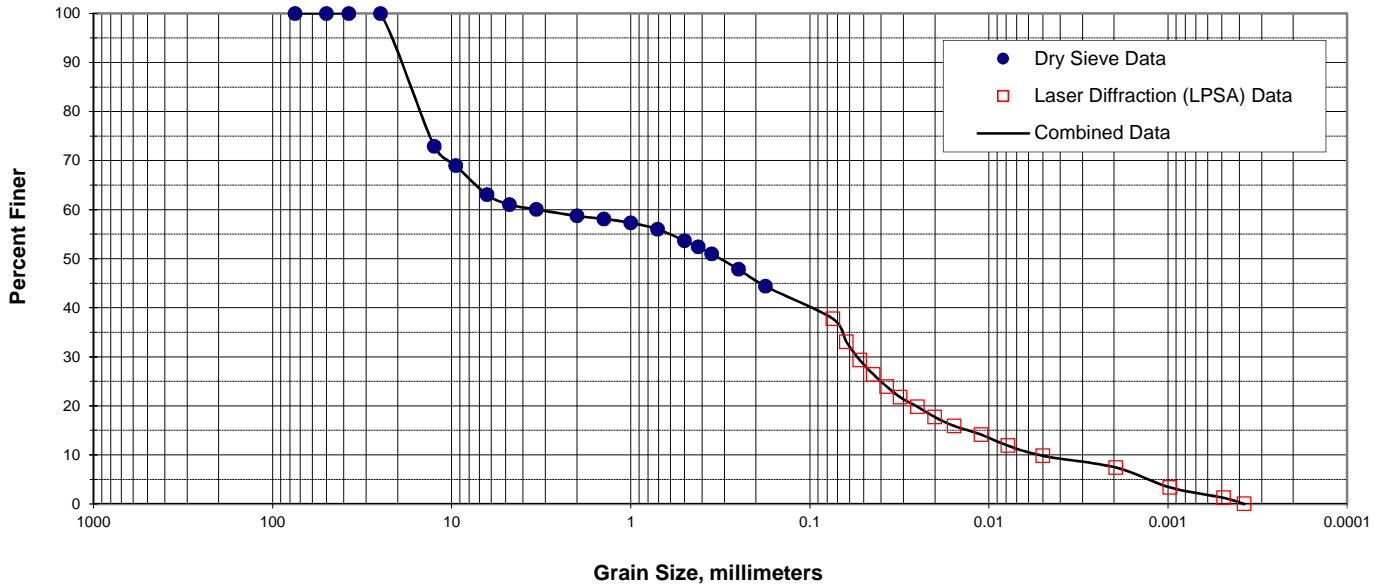
Description	Retained on Sieve #	Weight Percent
(ASTM-USCS Scale)		
Gravel	4	18.8
Coarse Sand	10	1.1
Medium Sand	40	1.6
Fine Sand	200	22.7
Silt	>0.005 mm	41.4
Clay	<0.005 mm	14.3
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M222-57.6-57.9
 Depth, ft: 57.6-57.9

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	27.09	72.91	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	31.01	68.99	0.033	0.841	0.25	20	5.35	94.65
0.250	6.35	-2.67	1/4	36.93	63.07	0.028	0.707	0.50	25	12.81	87.19
0.187	4.76	-2.25	4	38.95	61.05	0.023	0.595	0.75	30	16.84	83.16
0.132	3.36	-1.75	6	39.97	60.03	0.020	0.500	1.00	35	20.96	79.04
0.079	2.00	-1.00	10	41.28	58.72	0.017	0.420	1.25	40	24.96	75.04
0.056	1.414	-0.50	14	41.89	58.11	0.0139	0.3536	1.50	45	28.40	71.60
0.039	1.000	0.00	18	42.68	57.32	0.0117	0.2973	1.75	50	30.71	69.29
0.028	0.707	0.50	25	44.00	56.00	0.0098	0.2500	2.00	60	33.43	66.57
0.020	0.500	1.00	35	46.34	53.66	0.0083	0.2102	2.25	70	35.83	64.17
0.017	0.420	1.25	40	47.56	52.44	0.0070	0.1768	2.50	80	38.57	61.43
0.014	0.354	1.50	45	49.03	50.97	0.0059	0.1487	2.75	100	41.81	58.19
0.010	0.250	2.00	60	52.16	47.84	0.0049	0.1250	3.00	120	45.91	54.09
0.007	0.1768	2.50	80	55.64	44.36	0.0041	0.1051	3.25	140	51.01	48.99
0.005	0.1250	3.00	120	62.16	37.84	0.0035	0.0884	3.50	170	56.72	43.28
0.003	0.0743	3.75	200	77.53	22.47	0.0029	0.0743	3.75	200	62.26	37.74
0.002	0.0526	4.25	270	80.10	19.90	0.0025	0.0625	4.00	230	66.97	33.03
0.001	0.0372	4.75	400	80.49	19.51	0.0021	0.0526	4.25	270	70.67	29.33
			PAN	100	0.00	0.0017	0.0442	4.50	325	73.60	26.40
						0.0015	0.0372	4.75	400	76.07	23.93
						0.0012	0.0313	5.00	450	78.26	21.74
						0.0010	0.0250	5.32	500	80.19	19.81
						0.0008	0.0201	5.64	635	82.31	17.69
						0.0006	0.0156	6.00		84.10	15.90
						0.0004	0.0110	6.50		85.88	14.12
						0.0003	0.0078	7.00		88.12	11.88
						0.0002	0.0050	7.65		90.19	9.81
						0.00008	0.00195	9.00		92.59	7.41
						0.00004	0.00098	10.00		96.64	3.36
						0.00002	0.00049	11.00		98.77	1.23
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-57.6-57.9
Depth, ft: 57.6-57.9

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	27.1	72.9	27.1
0.374	9.50	-3.25	3/8	3.9	69.0	31.0
0.250	6.35	-2.67	1/4	5.9	63.1	36.9
0.1873	4.76	-2.25	4	2.0	61.0	39.0
0.1324	3.364	-1.75	6	1.0	60.0	40.0
0.0787	2.000	-1.00	10	1.3	58.7	41.3
0.0557	1.414	-0.50	14	0.6	58.1	41.9
0.0394	1.000	0.00	18	0.8	57.3	42.7
0.0278	0.707	0.50	25	1.3	56.0	44.0
0.0197	0.500	1.00	35	2.3	53.7	46.3
0.01655	0.420	1.25	40	1.2	52.4	47.6
0.01392	0.354	1.50	45	1.5	51.0	49.0
0.00984	0.2500	2.00	60	3.1	47.8	52.2
0.00696	0.1768	2.50	80	3.5	44.4	55.6
0.00293	0.0743	3.75	200	6.6	37.7	62.3
0.00246	0.0625	4.00	230	4.7	33.0	67.0
0.00207	0.0526	4.25	270	3.7	29.3	70.7
0.00174	0.0442	4.50	325	2.9	26.4	73.6
0.00146	0.0372	4.75	400	2.5	23.9	76.1
0.00123	0.0313	5.00	450	2.2	21.7	78.3
0.00099	0.0250	5.32	500	1.9	19.8	80.2
0.00079	0.0201	5.64	635	2.1	17.7	82.3
0.00062	0.0156	6.00		1.8	15.9	84.1
0.00043	0.0110	6.50		1.8	14.1	85.9
0.00031	0.0078	7.00		2.2	11.9	88.1
0.00020	0.0050	7.65		2.1	9.8	90.2
0.00008	0.0020	9.00		2.4	7.4	92.6
0.00004	0.0010	10.00		4.0	3.4	96.6
0.00002	0.0005	11.00		2.1	1.2	98.8
0.00001	0.0004	11.38		1.2	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.46	0.8661	22.000
10	-4.27	0.7621	19.358
16	-4.05	0.6537	16.603
25	-3.72	0.5192	13.188
40	-1.73	0.1307	3.319
50	1.65	0.0125	0.318
60	3.32	0.0039	0.100
75	4.64	0.0016	0.040
84	5.98	0.0006	0.016
90	7.59	0.0002	0.005
95	9.60	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	1.65	1.65	1.65
Median, in.	0.0125	0.0125	0.0125
Median, mm	0.318	0.318	0.318
Mean, phi	-2.73	0.96	1.19
Mean, in.	0.2604	0.0202	0.0172
Mean, mm	6.614	0.513	0.437
Sorting	18.146	5.017	4.638
Skewness	2.288	-0.138	-0.004
Kurtosis	0.340	0.401	0.689

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Trask Median)

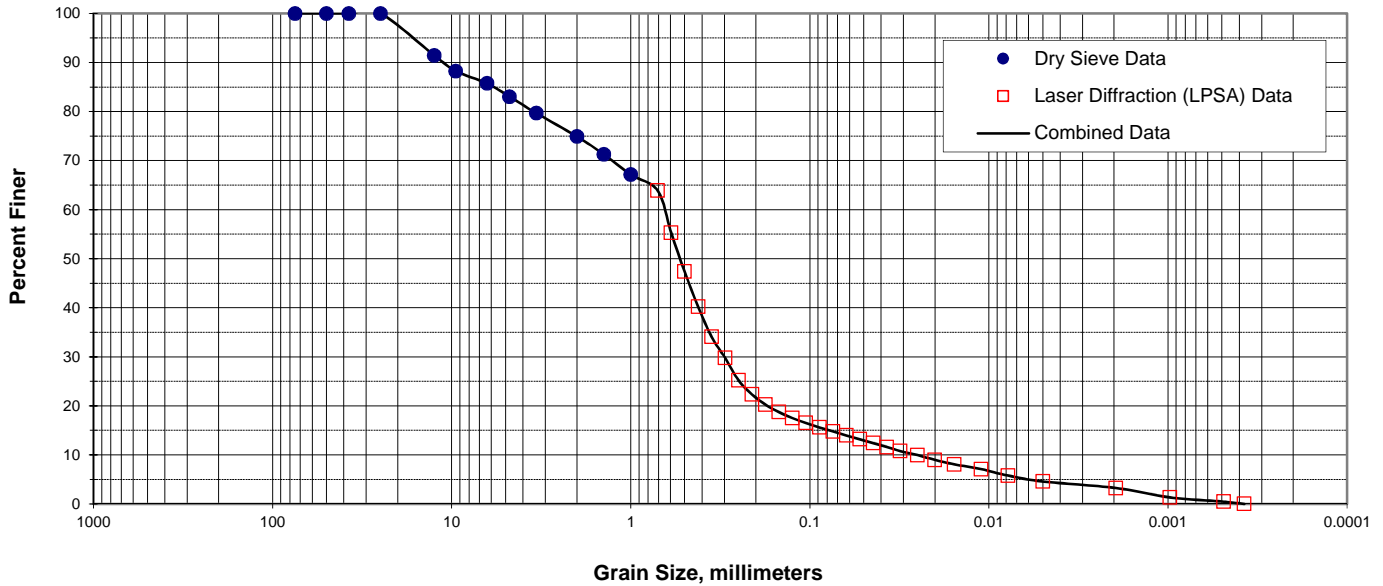
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	39.0
Coarse Sand	10	2.3
Medium Sand	40	6.3
Fine Sand	200	14.7
Silt	>0.005 mm	27.9
Clay	<0.005 mm	9.8
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M222-77.0-77.3
 Depth, ft: 77.0-77.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	8.56	91.44	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	11.74	88.26	0.033	0.841	0.25	20	18.82	81.18
0.250	6.35	-2.67	1/4	14.23	85.77	0.028	0.707	0.50	25	36.13	63.87
0.187	4.76	-2.25	4	16.96	83.04	0.023	0.595	0.75	30	44.71	55.29
0.132	3.36	-1.75	6	20.33	79.67	0.020	0.500	1.00	35	52.64	47.36
0.079	2.00	-1.00	10	25.08	74.92	0.017	0.420	1.25	40	59.77	40.23
0.056	1.414	-0.50	14	28.71	71.29	0.0139	0.3536	1.50	45	65.92	34.08
0.039	1.000	0.00	18	32.85	67.15	0.0117	0.2973	1.75	50	70.21	29.79
0.028	0.707	0.50	25	38.11	61.89	0.0098	0.2500	2.00	60	74.81	25.19
0.020	0.500	1.00	35	45.45	54.55	0.0083	0.2102	2.25	70	77.67	22.33
0.017	0.420	1.25	40	49.41	50.59	0.0070	0.1768	2.50	80	79.75	20.25
0.014	0.354	1.50	45	54.51	45.49	0.0059	0.1487	2.75	100	81.29	18.71
0.010	0.250	2.00	60	65.22	34.78	0.0049	0.1250	3.00	120	82.49	17.51
0.007	0.1768	2.50	80	72.56	27.44	0.0041	0.1051	3.25	140	83.50	16.50
0.005	0.1250	3.00	120	77.56	22.44	0.0035	0.0884	3.50	170	84.40	15.60
0.003	0.0743	3.75	200	81.80	18.20	0.0029	0.0743	3.75	200	85.23	14.77
0.002	0.0526	4.25	270	82.23	17.77	0.0025	0.0625	4.00	230	86.02	13.98
0.001	0.0372	4.75	400	82.28	17.72	0.0021	0.0526	4.25	270	86.80	13.20
			PAN	100	0.00	0.0017	0.0442	4.50	325	87.59	12.41
						0.0015	0.0372	4.75	400	88.40	11.60
						0.0012	0.0313	5.00	450	89.22	10.78
						0.0010	0.0250	5.32	500	90.03	9.97
						0.0008	0.0201	5.64	635	91.01	8.99
						0.0006	0.0156	6.00		91.92	8.08
						0.0004	0.0110	6.50		92.90	7.10
						0.0003	0.0078	7.00		94.22	5.78
						0.0002	0.0050	7.65		95.43	4.57
						0.00008	0.00195	9.00		96.76	3.24
						0.00004	0.00098	10.00		98.68	1.32
						0.00002	0.00049	11.00		99.54	0.46
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M222-77.0-77.3
Depth, ft: 77.0-77.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	8.6	91.4	8.6
0.374	9.50	-3.25	3/8	3.2	88.3	11.7
0.250	6.35	-2.67	1/4	2.5	85.8	14.2
0.1873	4.76	-2.25	4	2.7	83.0	17.0
0.1324	3.364	-1.75	6	3.4	79.7	20.3
0.0787	2.000	-1.00	10	4.8	74.9	25.1
0.0557	1.414	-0.50	14	3.6	71.3	28.7
0.0394	1.000	0.00	18	4.1	67.2	32.8
0.0278	0.707	0.50	25	3.3	63.9	36.1
0.0234	0.595	0.75	30	8.6	55.3	44.7
0.0197	0.500	1.00	35	7.9	47.4	52.6
0.01655	0.420	1.25	40	7.1	40.2	59.8
0.01392	0.354	1.50	45	6.2	34.1	65.9
0.01170	0.297	1.75	50	4.3	29.8	70.2
0.00984	0.2500	2.00	60	4.6	25.2	74.8
0.00828	0.2102	2.25	70	2.9	22.3	77.7
0.00696	0.1768	2.50	80	2.1	20.2	79.8
0.00585	0.1487	2.75	100	1.5	18.7	81.3
0.00492	0.1250	3.00	120	1.2	17.5	82.5
0.00414	0.1051	3.25	140	1.0	16.5	83.5
0.00348	0.0884	3.50	170	0.9	15.6	84.4
0.00293	0.0743	3.75	200	0.8	14.8	85.2
0.00246	0.0625	4.00	230	0.8	14.0	86.0
0.00207	0.0526	4.25	270	0.8	13.2	86.8
0.00174	0.0442	4.50	325	0.8	12.4	87.6
0.00146	0.0372	4.75	400	0.8	11.6	88.4
0.00123	0.0313	5.00	450	0.8	10.8	89.2
0.00099	0.0250	5.32	500	0.8	10.0	90.0
0.00079	0.0201	5.64	635	1.0	9.0	91.0
0.00062	0.0156	6.00		0.9	8.1	91.9
0.00043	0.0110	6.50		1.0	7.1	92.9
0.00031	0.0078	7.00		1.3	5.8	94.2
0.00020	0.0050	7.65		1.2	4.6	95.4
0.00008	0.0020	9.00		1.3	3.2	96.8
0.00004	0.0010	10.00		1.9	1.3	98.7
0.00002	0.0005	11.00		0.9	0.5	99.5
0.00001	0.0004	11.38		0.5	0.0	100.0
TOTALS				100.0	100.0	

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.06	0.6566	16.678
10	-3.46	0.4347	11.040
16	-2.40	0.2073	5.265
25	-1.01	0.0795	2.018
40	0.61	0.0257	0.654
50	0.92	0.0209	0.530
60	1.26	0.0164	0.418
75	2.02	0.0097	0.247
84	3.39	0.0038	0.095
90	5.31	0.0010	0.025
95	7.42	0.0002	0.006

Measure	Trask	Inman	Folk-Ward
Median, phi	0.92	0.92	0.92
Median, in.	0.0209	0.0209	0.0209
Median, mm	0.530	0.530	0.530
Mean, phi	-0.18	0.50	0.64
Mean, in.	0.0446	0.0279	0.0253
Mean, mm	1.133	0.709	0.643
Sorting	2.858	2.893	3.186
Skewness	1.333	-0.145	-0.006
Kurtosis	0.080	0.984	1.553

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)
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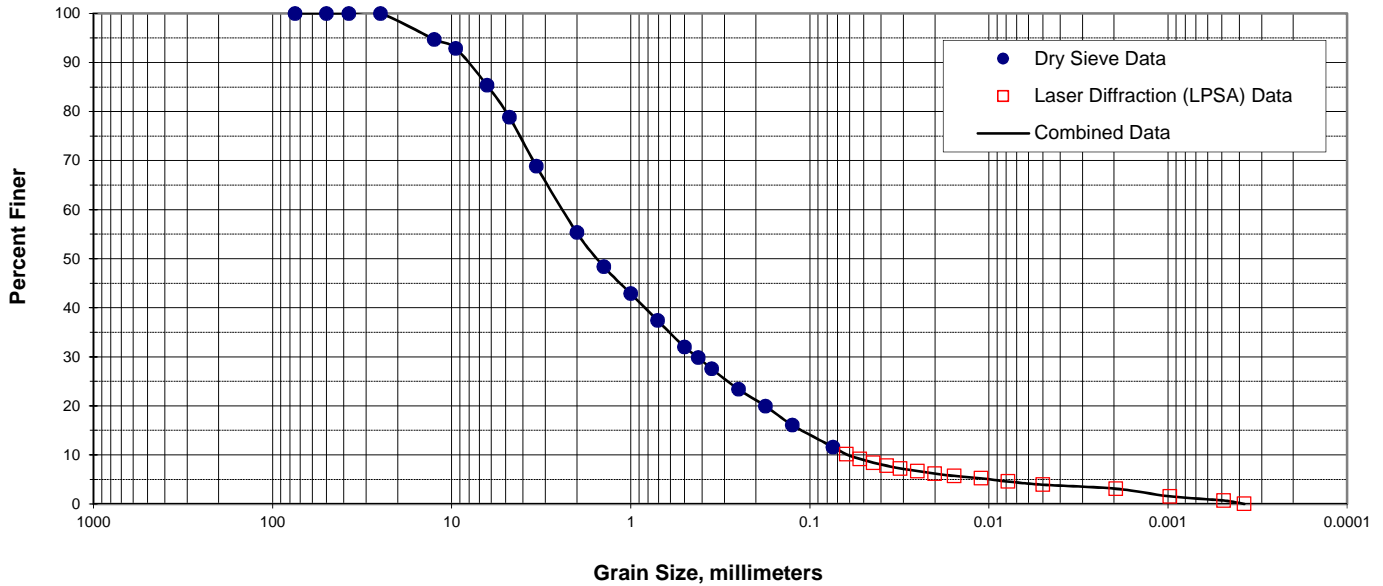
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	17.0
Coarse Sand	10	8.1
Medium Sand	40	34.7
Fine Sand	200	25.5
Silt	>0.005 mm	10.2
Clay	<0.005 mm	4.6
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M72D-19.3-19.6
 Depth, ft: 19.3-19.6

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	5.29	94.71	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	7.11	92.89	0.033	0.841	0.25	20	26.04	73.96
0.250	6.35	-2.67	1/4	14.64	85.36	0.028	0.707	0.50	25	47.88	52.12
0.187	4.76	-2.25	4	21.15	78.85	0.023	0.595	0.75	30	56.26	43.74
0.132	3.36	-1.75	6	31.15	68.85	0.020	0.500	1.00	35	62.78	37.22
0.079	2.00	-1.00	10	44.68	55.32	0.017	0.420	1.25	40	68.42	31.58
0.056	1.414	-0.50	14	51.60	48.40	0.0139	0.3536	1.50	45	72.47	27.53
0.039	1.000	0.00	18	57.11	42.89	0.0117	0.2973	1.75	50	75.02	24.98
0.028	0.707	0.50	25	62.62	37.38	0.0098	0.2500	2.00	60	77.94	22.06
0.020	0.500	1.00	35	68.03	31.97	0.0083	0.2102	2.25	70	80.02	19.98
0.017	0.420	1.25	40	70.13	29.87	0.0070	0.1768	2.50	80	81.83	18.17
0.014	0.354	1.50	45	72.45	27.55	0.0059	0.1487	2.75	100	83.40	16.60
0.010	0.250	2.00	60	76.64	23.36	0.0049	0.1250	3.00	120	85.02	14.98
0.007	0.1768	2.50	80	80.05	19.95	0.0041	0.1051	3.25	140	86.46	13.54
0.005	0.1250	3.00	120	83.94	16.06	0.0035	0.0884	3.50	170	87.72	12.28
0.003	0.0743	3.75	200	88.40	11.60	0.0029	0.0743	3.75	200	88.88	11.12
0.002	0.0526	4.25	270	89.01	10.99	0.0025	0.0625	4.00	230	89.89	10.11
0.001	0.0372	4.75	400	89.08	10.92	0.0021	0.0526	4.25	270	90.81	9.19
			PAN	100	0.00	0.0017	0.0442	4.50	325	91.61	8.39
						0.0015	0.0372	4.75	400	92.22	7.78
						0.0012	0.0313	5.00	450	92.79	7.21
						0.0010	0.0250	5.32	500	93.30	6.70
						0.0008	0.0201	5.64	635	93.82	6.18
						0.0006	0.0156	6.00		94.29	5.71
						0.0004	0.0110	6.50		94.78	5.22
						0.0003	0.0078	7.00		95.44	4.56
						0.0002	0.0050	7.65		96.08	3.92
						0.00008	0.00195	9.00		96.90	3.10
						0.00004	0.00098	10.00		98.46	1.54
						0.00002	0.00049	11.00		99.31	0.69
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M72D-19.3-19.6
Depth, ft: 19.3-19.6

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	5.3	94.7	5.3
0.374	9.50	-3.25	3/8	1.8	92.9	7.1
0.250	6.35	-2.67	1/4	7.5	85.4	14.6
0.1873	4.76	-2.25	4	6.5	78.8	21.2
0.1324	3.364	-1.75	6	10.0	68.9	31.1
0.0787	2.000	-1.00	10	13.5	55.3	44.7
0.0557	1.414	-0.50	14	6.9	48.4	51.6
0.0394	1.000	0.00	18	5.5	42.9	57.1
0.0278	0.707	0.50	25	5.5	37.4	62.6
0.0197	0.500	1.00	35	5.4	32.0	68.0
0.01655	0.420	1.25	40	2.1	29.9	70.1
0.01392	0.354	1.50	45	2.3	27.5	72.5
0.00984	0.2500	2.00	60	4.2	23.4	76.6
0.00696	0.1768	2.50	80	3.4	19.9	80.1
0.00492	0.1250	3.00	120	3.9	16.1	83.9
0.00293	0.0743	3.75	200	4.5	11.6	88.4
0.00246	0.0625	4.00	230	1.5	10.1	89.9
0.00207	0.0526	4.25	270	0.9	9.2	90.8
0.00174	0.0442	4.50	325	0.8	8.4	91.6
0.00146	0.0372	4.75	400	0.6	7.8	92.2
0.00123	0.0313	5.00	450	0.6	7.2	92.8
0.00099	0.0250	5.32	500	0.5	6.7	93.3
0.00079	0.0201	5.64	635	0.5	6.2	93.8
0.00062	0.0156	6.00		0.5	5.7	94.3
0.00043	0.0110	6.50		0.5	5.2	94.8
0.00031	0.0078	7.00		0.7	4.6	95.4
0.00020	0.0050	7.65		0.6	3.9	96.1
0.00008	0.0020	9.00		0.8	3.1	96.9
0.00004	0.0010	10.00		1.6	1.5	98.5
0.00002	0.0005	11.00		0.9	0.7	99.3
0.00001	0.0004	11.38		0.7	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.70	0.5112	12.984
10	-3.03	0.3205	8.140
16	-2.58	0.2354	5.980
25	-2.06	0.1639	4.162
40	-1.26	0.0942	2.394
50	-0.62	0.0603	1.532
60	0.26	0.0328	0.834
75	1.80	0.0113	0.286
84	3.01	0.0049	0.124
90	4.03	0.0024	0.061
95	6.67	0.0004	0.010

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.62	-0.62	-0.62
Median, in.	0.0603	0.0603	0.0603
Median, mm	1.532	1.532	1.532
Mean, phi	-1.15	0.21	-0.06
Mean, in.	0.0876	0.0339	0.0411
Mean, mm	2.224	0.862	1.044
Sorting	3.813	2.795	2.968
Skewness	0.712	0.297	0.351
Kurtosis	0.240	0.854	1.100

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

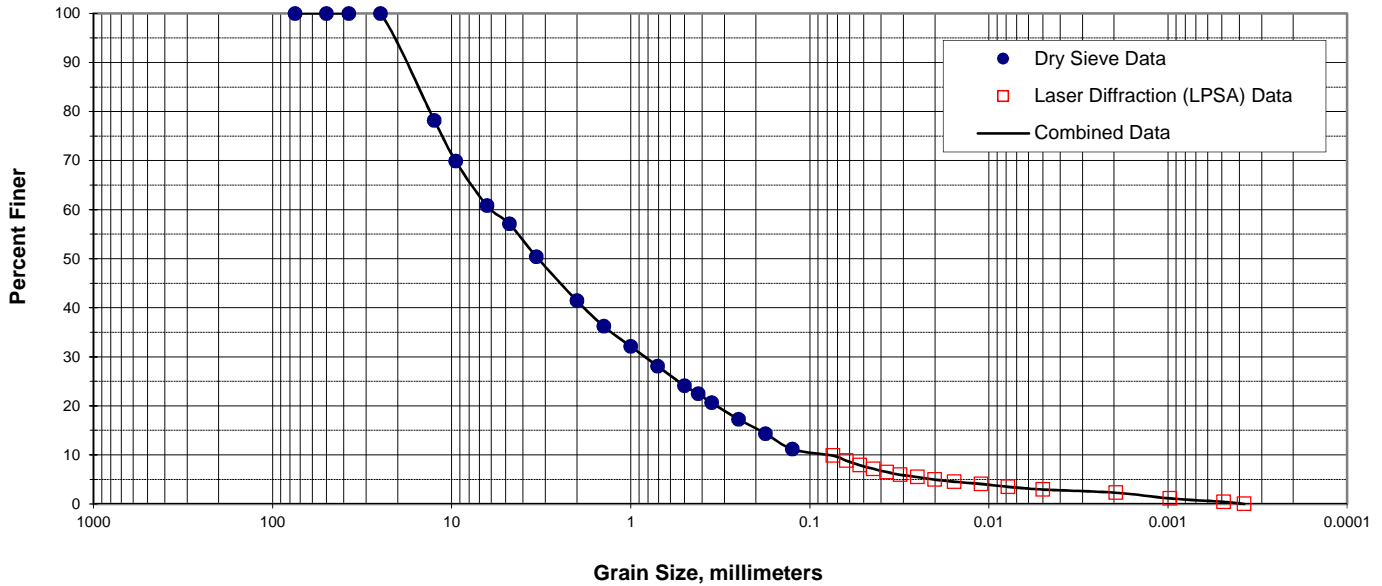
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	21.2
Coarse Sand	10	23.5
Medium Sand	40	25.5
Fine Sand	200	18.3
Silt	>0.005 mm	7.7
Clay	<0.005 mm	3.9
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M66D-21.0-21.3
 Depth, ft: 21.0-21.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	21.79	78.21	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	30.10	69.90	0.033	0.841	0.25	20	32.74	67.26
0.250	6.35	-2.67	1/4	39.19	60.81	0.028	0.707	0.50	25	52.06	47.94
0.187	4.76	-2.25	4	42.91	57.09	0.023	0.595	0.75	30	59.31	40.69
0.132	3.36	-1.75	6	49.60	50.40	0.020	0.500	1.00	35	65.02	34.98
0.079	2.00	-1.00	10	58.56	41.44	0.017	0.420	1.25	40	69.61	30.39
0.056	1.414	-0.50	14	63.79	36.21	0.0139	0.3536	1.50	45	73.41	26.59
0.039	1.000	0.00	18	67.91	32.09	0.0117	0.2973	1.75	50	76.03	23.97
0.028	0.707	0.50	25	71.92	28.08	0.0098	0.2500	2.00	60	78.98	21.02
0.020	0.500	1.00	35	75.93	24.07	0.0083	0.2102	2.25	70	81.09	18.91
0.017	0.420	1.25	40	77.52	22.48	0.0070	0.1768	2.50	80	82.96	17.04
0.014	0.354	1.50	45	79.38	20.62	0.0059	0.1487	2.75	100	84.67	15.33
0.010	0.250	2.00	60	82.73	17.27	0.0049	0.1250	3.00	120	86.24	13.76
0.007	0.1768	2.50	80	85.66	14.34	0.0041	0.1051	3.25	140	87.68	12.32
0.005	0.1250	3.00	120	88.84	11.16	0.0035	0.0884	3.50	170	88.98	11.02
0.003	0.0743	3.75	200	92.49	7.51	0.0029	0.0743	3.75	200	90.16	9.84
0.002	0.0526	4.25	270	92.91	7.09	0.0025	0.0625	4.00	230	91.20	8.80
0.001	0.0372	4.75	400	92.93	7.07	0.0021	0.0526	4.25	270	92.10	7.90
			PAN	100	0.00	0.0017	0.0442	4.50	325	92.86	7.14
						0.0015	0.0372	4.75	400	93.50	6.50
						0.0012	0.0313	5.00	450	94.05	5.95
						0.0010	0.0250	5.32	500	94.52	5.48
						0.0008	0.0201	5.64	635	95.03	4.97
						0.0006	0.0156	6.00		95.47	4.53
						0.0004	0.0110	6.50		95.93	4.07
						0.0003	0.0078	7.00		96.52	3.48
						0.0002	0.0050	7.65		97.07	2.93
						0.00008	0.00195	9.00		97.72	2.28
						0.00004	0.00098	10.00		98.88	1.12
						0.00002	0.00049	11.00		99.58	0.42
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M66D-21.0-21.3
Depth, ft: 21.0-21.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	21.8	78.2	21.8
0.374	9.50	-3.25	3/8	8.3	69.9	30.1
0.250	6.35	-2.67	1/4	9.1	60.8	39.2
0.1873	4.76	-2.25	4	3.7	57.1	42.9
0.1324	3.364	-1.75	6	6.7	50.4	49.6
0.0787	2.000	-1.00	10	9.0	41.4	58.6
0.0557	1.414	-0.50	14	5.2	36.2	63.8
0.0394	1.000	0.00	18	4.1	32.1	67.9
0.0278	0.707	0.50	25	4.0	28.1	71.9
0.0197	0.500	1.00	35	4.0	24.1	75.9
0.01655	0.420	1.25	40	1.6	22.5	77.5
0.01392	0.354	1.50	45	1.9	20.6	79.4
0.00984	0.2500	2.00	60	3.3	17.3	82.7
0.00696	0.1768	2.50	80	2.9	14.3	85.7
0.00492	0.1250	3.00	120	3.2	11.2	88.8
0.00293	0.0743	3.75	200	1.3	9.8	90.2
0.00246	0.0625	4.00	230	1.0	8.8	91.2
0.00207	0.0526	4.25	270	0.9	7.9	92.1
0.00174	0.0442	4.50	325	0.8	7.1	92.9
0.00146	0.0372	4.75	400	0.6	6.5	93.5
0.00123	0.0313	5.00	450	0.6	5.9	94.1
0.00099	0.0250	5.32	500	0.5	5.5	94.5
0.00079	0.0201	5.64	635	0.5	5.0	95.0
0.00062	0.0156	6.00		0.4	4.5	95.5
0.00043	0.0110	6.50		0.5	4.1	95.9
0.00031	0.0078	7.00		0.6	3.5	96.5
0.00020	0.0050	7.65		0.6	2.9	97.1
0.00008	0.0020	9.00		0.7	2.3	97.7
0.00004	0.0010	10.00		1.2	1.1	98.9
0.00002	0.0005	11.00		0.7	0.4	99.6
0.00001	0.0004	11.38		0.4	0.0	100.0
TOTALS				100.0	100.0	

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.41	0.8396	21.325
10	-4.19	0.7161	18.189
16	-3.91	0.5917	15.028
25	-3.49	0.4426	11.242
40	-2.58	0.2348	5.963
50	-1.72	0.1294	3.287
60	-0.86	0.0716	1.818
75	0.88	0.0213	0.542
84	2.22	0.0085	0.215
90	3.66	0.0031	0.079
95	5.62	0.0008	0.020

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.72	-1.72	-1.72
Median, in.	0.1294	0.1294	0.1294
Median, mm	3.287	3.287	3.287
Mean, phi	-2.56	-0.85	-1.14
Mean, in.	0.2320	0.0708	0.0866
Mean, mm	5.892	1.798	2.199
Sorting	4.554	3.063	3.052
Skewness	0.751	0.284	0.373
Kurtosis	0.295	0.638	0.940

Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Trask Median)
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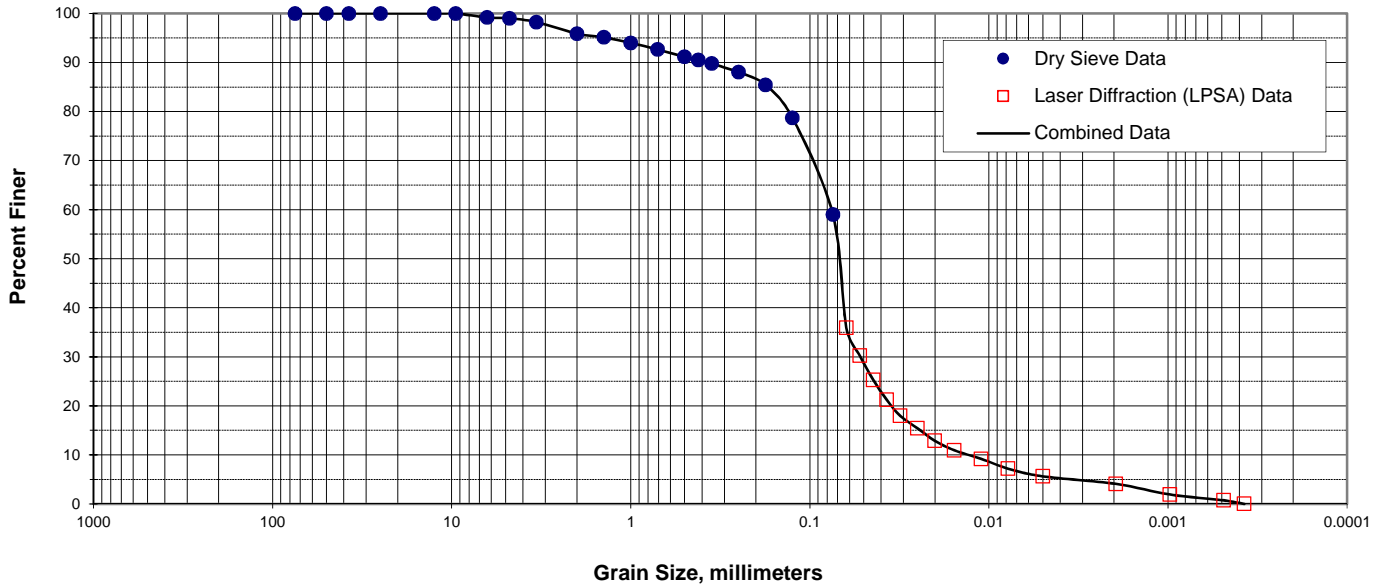
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	42.9
Coarse Sand	10	15.7
Medium Sand	40	19.0
Fine Sand	200	12.6
Silt	>0.005 mm	6.9
Clay	<0.005 mm	2.9
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M140D-16.0-16.3
 Depth, ft: 16.0-16.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	0.00	100.00	0.033	0.841	0.25	20	8.38	91.62
0.250	6.35	-2.67	1/4	0.82	99.18	0.028	0.707	0.50	25	13.98	86.02
0.187	4.76	-2.25	4	0.99	99.01	0.023	0.595	0.75	30	16.40	83.60
0.132	3.36	-1.75	6	1.77	98.23	0.020	0.500	1.00	35	18.63	81.37
0.079	2.00	-1.00	10	4.11	95.89	0.017	0.420	1.25	40	20.72	79.28
0.056	1.414	-0.50	14	4.86	95.14	0.0139	0.3536	1.50	45	22.49	77.51
0.039	1.000	0.00	18	6.00	94.00	0.0117	0.2973	1.75	50	23.73	76.27
0.028	0.707	0.50	25	7.36	92.64	0.0098	0.2500	2.00	60	25.47	74.53
0.020	0.500	1.00	35	8.82	91.18	0.0083	0.2102	2.25	70	27.51	72.49
0.017	0.420	1.25	40	9.47	90.53	0.0070	0.1768	2.50	80	30.44	69.56
0.014	0.354	1.50	45	10.23	89.77	0.0059	0.1487	2.75	100	34.38	65.62
0.010	0.250	2.00	60	11.99	88.01	0.0049	0.1250	3.00	120	39.37	60.63
0.007	0.1768	2.50	80	14.57	85.43	0.0041	0.1051	3.25	140	45.20	54.80
0.005	0.1250	3.00	120	21.29	78.71	0.0035	0.0884	3.50	170	51.50	48.50
0.003	0.0743	3.75	200	40.98	59.02	0.0029	0.0743	3.75	200	57.92	42.08
0.002	0.0526	4.25	270	44.94	55.06	0.0025	0.0625	4.00	230	64.11	35.89
0.001	0.0372	4.75	400	45.60	54.40	0.0021	0.0526	4.25	270	69.80	30.20
			PAN	100	0.00	0.0017	0.0442	4.50	325	74.73	25.27
						0.0015	0.0372	4.75	400	78.80	21.20
						0.0012	0.0313	5.00	450	82.05	17.95
						0.0010	0.0250	5.32	500	84.60	15.40
						0.0008	0.0201	5.64	635	87.11	12.89
						0.0006	0.0156	6.00		89.05	10.95
						0.0004	0.0110	6.50		90.81	9.19
						0.0003	0.0078	7.00		92.80	7.20
						0.0002	0.0050	7.65		94.38	5.62
						0.00008	0.00195	9.00		95.92	4.08
						0.00004	0.00098	10.00		98.08	1.92
						0.00002	0.00049	11.00		99.27	0.73
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M140D-16.0-16.3
Depth, ft: 16.0-16.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	0.0	100.0	0.0
0.250	6.35	-2.67	1/4	0.8	99.2	0.8
0.1873	4.76	-2.25	4	0.2	99.0	1.0
0.1324	3.364	-1.75	6	0.8	98.2	1.8
0.0787	2.000	-1.00	10	2.3	95.9	4.1
0.0557	1.414	-0.50	14	0.7	95.1	4.9
0.0394	1.000	0.00	18	1.1	94.0	6.0
0.0278	0.707	0.50	25	1.4	92.6	7.4
0.0197	0.500	1.00	35	1.5	91.2	8.8
0.01655	0.420	1.25	40	0.7	90.5	9.5
0.01392	0.354	1.50	45	0.8	89.8	10.2
0.00984	0.2500	2.00	60	1.8	88.0	12.0
0.00696	0.1768	2.50	80	2.6	85.4	14.6
0.00492	0.1250	3.00	120	6.7	78.7	21.3
0.00293	0.0743	3.75	200	19.7	59.0	41.0
0.00246	0.0625	4.00	230	23.1	35.9	64.1
0.00207	0.0526	4.25	270	5.7	30.2	69.8
0.00174	0.0442	4.50	325	4.9	25.3	74.7
0.00146	0.0372	4.75	400	4.1	21.2	78.8
0.00123	0.0313	5.00	450	3.2	18.0	82.0
0.00099	0.0250	5.32	500	2.6	15.4	84.6
0.00079	0.0201	5.64	635	2.5	12.9	87.1
0.00062	0.0156	6.00		1.9	10.9	89.1
0.00043	0.0110	6.50		1.8	9.2	90.8
0.00031	0.0078	7.00		2.0	7.2	92.8
0.00020	0.0050	7.65		1.6	5.6	94.4
0.00008	0.0020	9.00		1.5	4.1	95.9
0.00004	0.0010	10.00		2.2	1.9	98.1
0.00002	0.0005	11.00		1.2	0.7	99.3
0.00001	0.0004	11.38		0.7	0.0	100.0
TOTALS				100.0	100.0	

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.44	0.0534	1.356
10	1.43	0.0147	0.372
16	2.61	0.0065	0.164
25	3.14	0.0045	0.113
40	3.71	0.0030	0.076
50	3.85	0.0027	0.069
60	3.96	0.0025	0.064
75	4.52	0.0017	0.044
84	5.25	0.0010	0.026
90	6.27	0.0005	0.013
95	8.19	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	3.85	3.85	3.85
Median, in.	0.0027	0.0027	0.0027
Median, mm	0.069	0.069	0.069
Mean, phi	3.67	3.93	3.90
Mean, in.	0.0031	0.0026	0.0026
Mean, mm	0.079	0.066	0.067
Sorting	1.611	1.319	1.968
Skewness	1.013	0.059	0.033
Kurtosis	0.097	2.272	2.573

Grain Size Description (ASTM-USCS Scale)	Silt (based on Trask Median)
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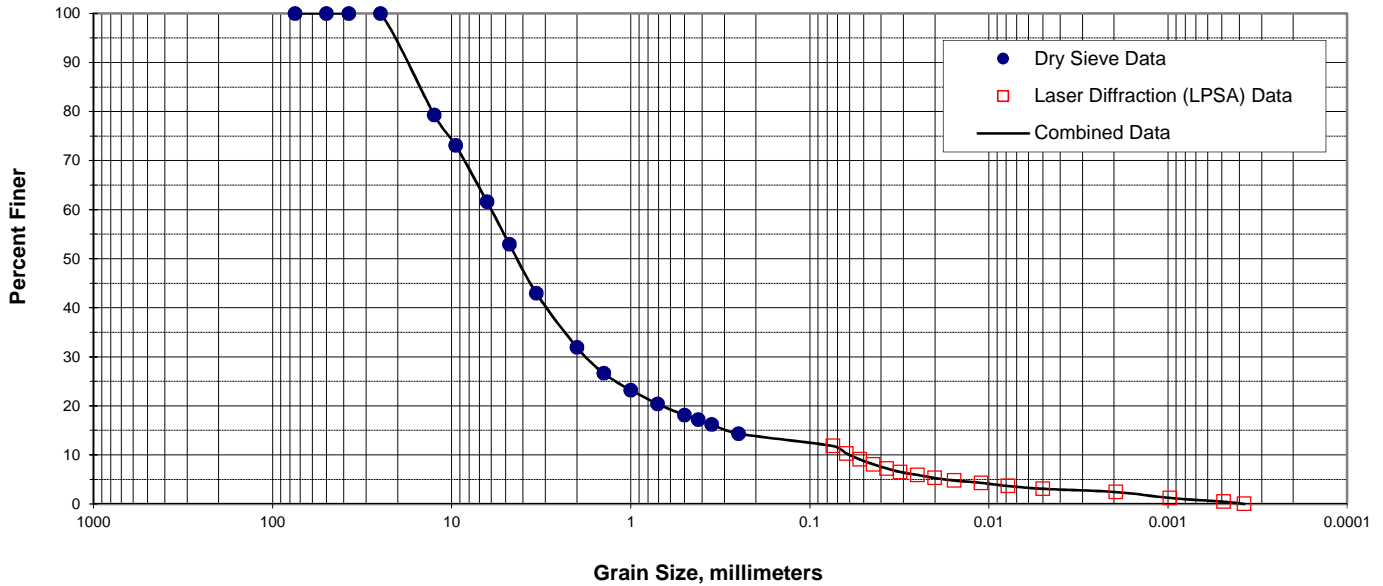
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	1.0
Coarse Sand	10	3.1
Medium Sand	40	5.4
Fine Sand	200	31.5
Silt	>0.005 mm	53.4
Clay	<0.005 mm	5.6
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M22D-25.2-25.5
 Depth, ft: 25.2-25.5

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	20.71	79.29	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	26.91	73.09	0.033	0.841	0.25	20	35.21	64.79
0.250	6.35	-2.67	1/4	38.37	61.63	0.028	0.707	0.50	25	50.82	49.18
0.187	4.76	-2.25	4	47.07	52.93	0.023	0.595	0.75	30	56.59	43.41
0.132	3.36	-1.75	6	57.05	42.95	0.020	0.500	1.00	35	61.32	38.68
0.079	2.00	-1.00	10	68.06	31.94	0.017	0.420	1.25	40	65.08	34.92
0.056	1.414	-0.50	14	73.37	26.63	0.0139	0.3536	1.50	45	68.00	32.00
0.039	1.000	0.00	18	76.78	23.22	0.0117	0.2973	1.75	50	69.98	30.02
0.028	0.707	0.50	25	79.61	20.39	0.0098	0.2500	2.00	60	72.43	27.57
0.020	0.500	1.00	35	81.90	18.10	0.0083	0.2102	2.25	70	74.58	25.42
0.017	0.420	1.25	40	82.80	17.20	0.0070	0.1768	2.50	80	76.90	23.10
0.014	0.354	1.50	45	83.77	16.23	0.0059	0.1487	2.75	100	79.35	20.65
0.010	0.250	2.00	60	85.67	14.33	0.0049	0.1250	3.00	120	81.84	18.16
0.007	0.1768	2.50	80	87.46	12.54	0.0041	0.1051	3.25	140	84.23	15.77
0.005	0.1250	3.00	120	90.02	9.98	0.0035	0.0884	3.50	170	86.37	13.63
0.003	0.0743	3.75	200	93.42	6.58	0.0029	0.0743	3.75	200	88.20	11.80
0.002	0.0526	4.25	270	93.79	6.21	0.0025	0.0625	4.00	230	89.71	10.29
0.001	0.0372	4.75	400	93.81	6.19	0.0021	0.0526	4.25	270	90.94	9.06
			PAN	100	0.00	0.0017	0.0442	4.50	325	91.94	8.06
						0.0015	0.0372	4.75	400	92.78	7.22
						0.0012	0.0313	5.00	450	93.49	6.51
						0.0010	0.0250	5.32	500	94.09	5.91
						0.0008	0.0201	5.64	635	94.71	5.29
						0.0006	0.0156	6.00		95.22	4.78
						0.0004	0.0110	6.50		95.72	4.28
						0.0003	0.0078	7.00		96.35	3.65
						0.0002	0.0050	7.65		96.92	3.08
						0.00008	0.00195	9.00		97.58	2.42
						0.00004	0.00098	10.00		98.79	1.21
						0.00002	0.00049	11.00		99.55	0.45
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M22D-25.2-25.5
Depth, ft: 25.2-25.5

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	20.7	79.3	20.7
0.374	9.50	-3.25	3/8	6.2	73.1	26.9
0.250	6.35	-2.67	1/4	11.5	61.6	38.4
0.1873	4.76	-2.25	4	8.7	52.9	47.1
0.1324	3.364	-1.75	6	10.0	42.9	57.1
0.0787	2.000	-1.00	10	11.0	31.9	68.1
0.0557	1.414	-0.50	14	5.3	26.6	73.4
0.0394	1.000	0.00	18	3.4	23.2	76.8
0.0278	0.707	0.50	25	2.8	20.4	79.6
0.0197	0.500	1.00	35	2.3	18.1	81.9
0.01655	0.420	1.25	40	0.9	17.2	82.8
0.01392	0.354	1.50	45	1.0	16.2	83.8
0.00984	0.2500	2.00	60	1.9	14.3	85.7
0.00293	0.0743	3.75	200	2.5	11.8	88.2
0.00246	0.0625	4.00	230	1.5	10.3	89.7
0.00207	0.0526	4.25	270	1.2	9.1	90.9
0.00174	0.0442	4.50	325	1.0	8.1	91.9
0.00146	0.0372	4.75	400	0.8	7.2	92.8
0.00123	0.0313	5.00	450	0.7	6.5	93.5
0.00099	0.0250	5.32	500	0.6	5.9	94.1
0.00079	0.0201	5.64	635	0.6	5.3	94.7
0.00062	0.0156	6.00		0.5	4.8	95.2
0.00043	0.0110	6.50		0.5	4.3	95.7
0.00031	0.0078	7.00		0.6	3.7	96.3
0.00020	0.0050	7.65		0.6	3.1	96.9
0.00008	0.0020	9.00		0.7	2.4	97.6
0.00004	0.0010	10.00		1.2	1.2	98.8
0.00002	0.0005	11.00		0.8	0.5	99.5
0.00001	0.0004	11.38		0.5	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.40	0.8326	21.149
10	-4.16	0.7043	17.890
16	-3.87	0.5762	14.634
25	-3.37	0.4070	10.339
40	-2.59	0.2368	6.016
50	-2.10	0.1692	4.296
60	-1.55	0.1152	2.926
75	-0.26	0.0472	1.199
84	1.56	0.0134	0.339
90	4.06	0.0024	0.060
95	5.85	0.0007	0.017

Measure	Trask	Inman	Folk-Ward
Median, phi	-2.10	-2.10	-2.10
Median, in.	0.1692	0.1692	0.1692
Median, mm	4.296	4.296	4.296
Mean, phi	-2.53	-1.16	-1.47
Mean, in.	0.2271	0.0877	0.1092
Mean, mm	5.769	2.228	2.773
Sorting	2.937	2.715	2.911
Skewness	0.819	0.349	0.450
Kurtosis	0.256	0.887	1.351

Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Trask Median)
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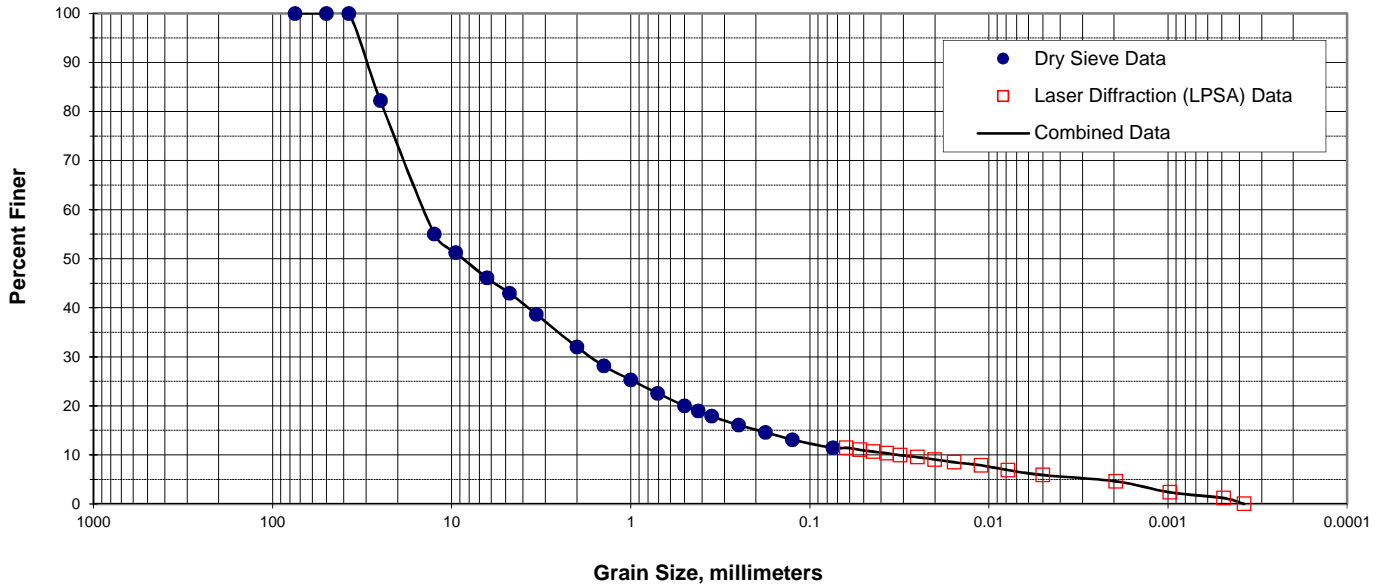
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	47.1
Coarse Sand	10	21.0
Medium Sand	40	14.7
Fine Sand	200	5.4
Silt	>0.005 mm	8.7
Clay	<0.005 mm	3.1
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M22D-33.0-33.3
 Depth, ft: 33.0-33.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	17.79	82.21	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	44.96	55.04	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	48.75	51.25	0.033	0.841	0.25	20	39.77	60.23
0.250	6.35	-2.67	1/4	53.93	46.07	0.028	0.707	0.50	25	63.21	36.79
0.187	4.76	-2.25	4	57.04	42.96	0.023	0.595	0.75	30	70.61	29.39
0.132	3.36	-1.75	6	61.34	38.66	0.020	0.500	1.00	35	75.48	24.52
0.079	2.00	-1.00	10	68.01	31.99	0.017	0.420	1.25	40	79.20	20.80
0.056	1.414	-0.50	14	71.86	28.14	0.0139	0.3536	1.50	45	81.67	18.33
0.039	1.000	0.00	18	74.70	25.30	0.0117	0.2973	1.75	50	82.93	17.07
0.028	0.707	0.50	25	77.44	22.56	0.0098	0.2500	2.00	60	84.25	15.75
0.020	0.500	1.00	35	80.02	19.98	0.0083	0.2102	2.25	70	85.05	14.95
0.017	0.420	1.25	40	81.03	18.97	0.0070	0.1768	2.50	80	85.81	14.19
0.014	0.354	1.50	45	82.12	17.88	0.0059	0.1487	2.75	100	86.29	13.71
0.010	0.250	2.00	60	83.93	16.07	0.0049	0.1250	3.00	120	86.83	13.17
0.007	0.1768	2.50	80	85.40	14.60	0.0041	0.1051	3.25	140	87.34	12.66
0.005	0.1250	3.00	120	86.91	13.09	0.0035	0.0884	3.50	170	87.76	12.24
0.003	0.0743	3.75	200	88.58	11.42	0.0029	0.0743	3.75	200	88.17	11.83
0.002	0.0526	4.25	270	88.70	11.30	0.0025	0.0625	4.00	230	88.56	11.44
0.001	0.0372	4.75	400	88.72	11.28	0.0021	0.0526	4.25	270	88.97	11.03
			PAN	100	0.00	0.0017	0.0442	4.50	325	89.34	10.66
						0.0015	0.0372	4.75	400	89.67	10.33
						0.0012	0.0313	5.00	450	90.08	9.92
						0.0010	0.0250	5.32	500	90.47	9.53
						0.0008	0.0201	5.64	635	90.95	9.05
						0.0006	0.0156	6.00		91.51	8.49
						0.0004	0.0110	6.50		92.14	7.86
						0.0003	0.0078	7.00		93.11	6.89
						0.0002	0.0050	7.65		94.11	5.89
						0.00008	0.00195	9.00		95.40	4.60
						0.00004	0.00098	10.00		97.63	2.37
						0.00002	0.00049	11.00		98.81	1.19
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M22D-33.0-33.3
Depth, ft: 33.0-33.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	17.8	82.2	17.8
0.492	12.5	-3.64	1/2	27.2	55.0	45.0
0.374	9.50	-3.25	3/8	3.8	51.2	48.8
0.250	6.35	-2.67	1/4	5.2	46.1	53.9
0.1873	4.76	-2.25	4	3.1	43.0	57.0
0.1324	3.364	-1.75	6	4.3	38.7	61.3
0.0787	2.000	-1.00	10	6.7	32.0	68.0
0.0557	1.414	-0.50	14	3.8	28.1	71.9
0.0394	1.000	0.00	18	2.8	25.3	74.7
0.0278	0.707	0.50	25	2.7	22.6	77.4
0.0197	0.500	1.00	35	2.6	20.0	80.0
0.01655	0.420	1.25	40	1.0	19.0	81.0
0.01392	0.354	1.50	45	1.1	17.9	82.1
0.00984	0.2500	2.00	60	1.8	16.1	83.9
0.00696	0.1768	2.50	80	1.5	14.6	85.4
0.00492	0.1250	3.00	120	1.5	13.1	86.9
0.00293	0.0743	3.75	200	1.7	11.4	88.6
0.00246	0.0625	4.00	230	0.0	11.4	88.6
0.00207	0.0526	4.25	270	0.4	11.0	89.0
0.00174	0.0442	4.50	325	0.4	10.7	89.3
0.00146	0.0372	4.75	400	0.3	10.3	89.7
0.00123	0.0313	5.00	450	0.4	9.9	90.1
0.00099	0.0250	5.32	500	0.4	9.5	90.5
0.00079	0.0201	5.64	635	0.5	9.0	91.0
0.00062	0.0156	6.00		0.6	8.5	91.5
0.00043	0.0110	6.50		0.6	7.9	92.1
0.00031	0.0078	7.00		1.0	6.9	93.1
0.00020	0.0050	7.65		1.0	5.9	94.1
0.00008	0.0020	9.00		1.3	4.6	95.4
0.00004	0.0010	10.00		2.2	2.4	97.6
0.00002	0.0005	11.00		1.2	1.2	98.8
0.00001	0.0004	11.38		1.2	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-5.06	1.3174	33.461
10	-4.90	1.1755	29.857
16	-4.70	1.0252	26.041
25	-4.38	0.8189	20.800
40	-3.83	0.5585	14.186
50	-3.11	0.3395	8.622
60	-1.91	0.1475	3.747
75	0.05	0.0379	0.963
84	2.03	0.0097	0.246
90	4.95	0.0013	0.032
95	8.58	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	-3.11	-3.11	-3.11
Median, in.	0.3395	0.3395	0.3395
Median, mm	8.622	8.622	8.622
Mean, phi	-3.44	-1.34	-1.93
Mean, in.	0.4284	0.0996	0.1499
Mean, mm	10.881	2.529	3.807
Sorting	4.648	3.364	3.749
Skewness	0.519	0.526	0.620
Kurtosis	0.333	1.028	1.261

Grain Size Description (ASTM-USCS Scale)	Gravel (based on Trask Median)
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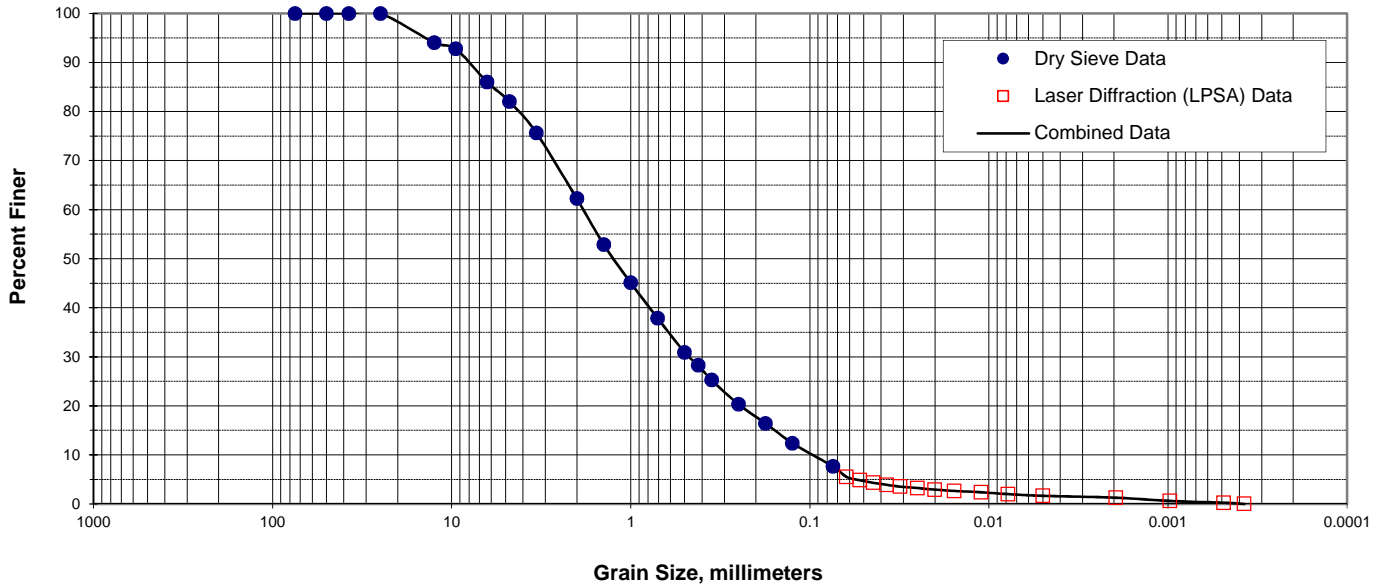
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	57.0
Coarse Sand	10	11.0
Medium Sand	40	13.0
Fine Sand	200	7.6
Silt	>0.005 mm	5.5
Clay	<0.005 mm	5.9
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M5D-19.0-19.3
 Depth, ft: 19.0-19.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	5.93	94.07	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	7.20	92.80	0.033	0.841	0.25	20	38.19	61.81
0.250	6.35	-2.67	1/4	13.96	86.04	0.028	0.707	0.50	25	57.88	42.12
0.187	4.76	-2.25	4	17.95	82.05	0.023	0.595	0.75	30	65.58	34.42
0.132	3.36	-1.75	6	24.36	75.64	0.020	0.500	1.00	35	71.48	28.52
0.079	2.00	-1.00	10	37.76	62.24	0.017	0.420	1.25	40	76.12	23.88
0.056	1.414	-0.50	14	47.13	52.87	0.0139	0.3536	1.50	45	79.78	20.22
0.039	1.000	0.00	18	54.91	45.09	0.0117	0.2973	1.75	50	82.19	17.81
0.028	0.707	0.50	25	62.13	37.87	0.0098	0.2500	2.00	60	84.70	15.30
0.020	0.500	1.00	35	69.11	30.89	0.0083	0.2102	2.25	70	86.40	13.60
0.017	0.420	1.25	40	71.73	28.27	0.0070	0.1768	2.50	80	87.94	12.06
0.014	0.354	1.50	45	74.72	25.28	0.0059	0.1487	2.75	100	89.31	10.69
0.010	0.250	2.00	60	79.71	20.29	0.0049	0.1250	3.00	120	90.53	9.47
0.007	0.1768	2.50	80	83.57	16.43	0.0041	0.1051	3.25	140	91.66	8.34
0.005	0.1250	3.00	120	87.62	12.38	0.0035	0.0884	3.50	170	92.71	7.29
0.003	0.0743	3.75	200	92.37	7.63	0.0029	0.0743	3.75	200	93.66	6.34
0.002	0.0526	4.25	270	92.79	7.21	0.0025	0.0625	4.00	230	94.47	5.53
0.001	0.0372	4.75	400	92.81	7.19	0.0021	0.0526	4.25	270	95.16	4.84
			PAN	100	0.00	0.0017	0.0442	4.50	325	95.69	4.31
						0.0015	0.0372	4.75	400	96.11	3.89
						0.0012	0.0313	5.00	450	96.47	3.53
						0.0010	0.0250	5.32	500	96.77	3.23
						0.0008	0.0201	5.64	635	97.08	2.92
						0.0006	0.0156	6.00		97.35	2.65
						0.0004	0.0110	6.50		97.63	2.37
						0.0003	0.0078	7.00		98.00	2.00
						0.0002	0.0050	7.65		98.34	1.66
						0.00008	0.00195	9.00		98.73	1.27
						0.00004	0.00098	10.00		99.40	0.60
						0.00002	0.00049	11.00		99.75	0.25
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M5D-19.0-19.3
Depth, ft: 19.0-19.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	5.9	94.1	5.9
0.374	9.50	-3.25	3/8	1.3	92.8	7.2
0.250	6.35	-2.67	1/4	6.8	86.0	14.0
0.1873	4.76	-2.25	4	4.0	82.1	17.9
0.1324	3.364	-1.75	6	6.4	75.6	24.4
0.0787	2.000	-1.00	10	13.4	62.2	37.8
0.0557	1.414	-0.50	14	9.4	52.9	47.1
0.0394	1.000	0.00	18	7.8	45.1	54.9
0.0278	0.707	0.50	25	7.2	37.9	62.1
0.0197	0.500	1.00	35	7.0	30.9	69.1
0.01655	0.420	1.25	40	2.6	28.3	71.7
0.01392	0.354	1.50	45	3.0	25.3	74.7
0.00984	0.2500	2.00	60	5.0	20.3	79.7
0.00696	0.1768	2.50	80	3.9	16.4	83.6
0.00492	0.1250	3.00	120	4.0	12.4	87.6
0.00293	0.0743	3.75	200	4.7	7.6	92.4
0.00246	0.0625	4.00	230	2.1	5.5	94.5
0.00207	0.0526	4.25	270	0.7	4.8	95.2
0.00174	0.0442	4.50	325	0.5	4.3	95.7
0.00146	0.0372	4.75	400	0.4	3.9	96.1
0.00123	0.0313	5.00	450	0.4	3.5	96.5
0.00099	0.0250	5.32	500	0.3	3.2	96.8
0.00079	0.0201	5.64	635	0.3	2.9	97.1
0.00062	0.0156	6.00		0.3	2.6	97.4
0.00043	0.0110	6.50		0.3	2.4	97.6
0.00031	0.0078	7.00		0.4	2.0	98.0
0.00020	0.0050	7.65		0.3	1.7	98.3
0.00008	0.0020	9.00		0.4	1.3	98.7
0.00004	0.0010	10.00		0.7	0.6	99.4
0.00002	0.0005	11.00		0.3	0.2	99.8
0.00001	0.0004	11.38		0.2	0.0	100.0
TOTALS				100.0	100.0	

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.80	0.5489	13.941
10	-3.01	0.3166	8.042
16	-2.45	0.2157	5.478
25	-1.71	0.1292	3.282
40	-0.88	0.0725	1.841
50	-0.32	0.0490	1.245
60	0.35	0.0308	0.783
75	1.53	0.0137	0.347
84	2.55	0.0067	0.170
90	3.38	0.0038	0.096
95	4.19	0.0022	0.055

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.32	-0.32	-0.32
Median, in.	0.0490	0.0490	0.0490
Median, mm	1.245	1.245	1.245
Mean, phi	-0.86	0.05	-0.07
Mean, in.	0.0714	0.0380	0.0414
Mean, mm	1.814	0.966	1.051
Sorting	3.076	2.503	2.463
Skewness	0.857	0.146	0.137
Kurtosis	0.185	0.596	1.010

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

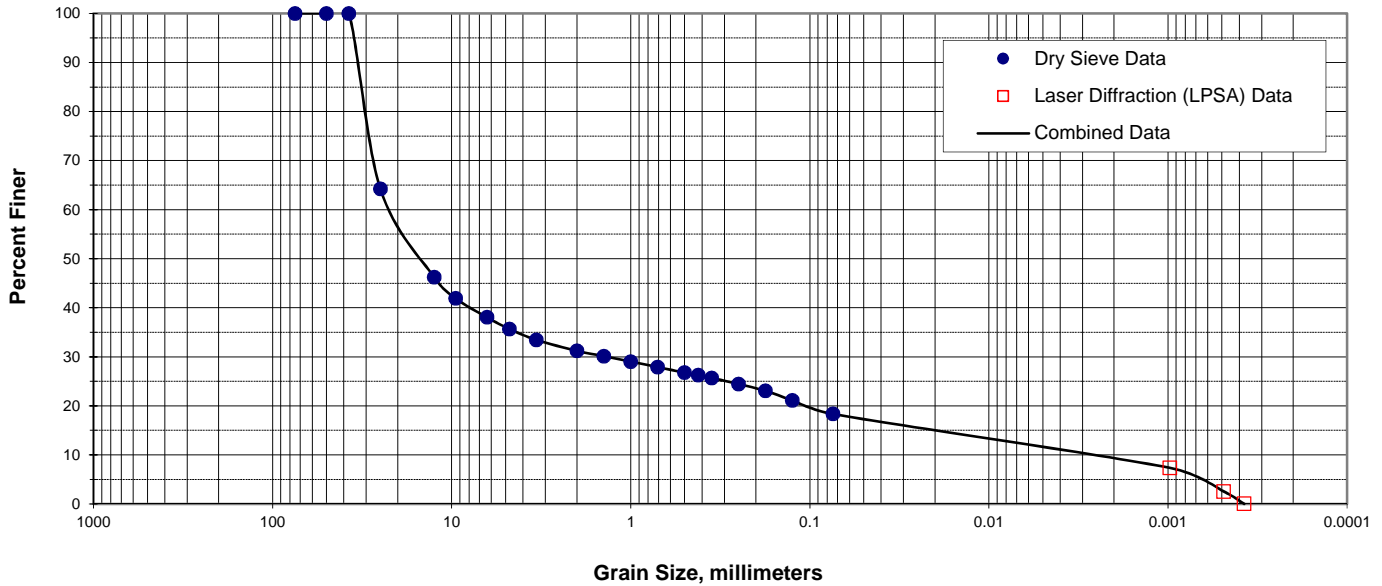
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	17.9
Coarse Sand	10	19.8
Medium Sand	40	34.0
Fine Sand	200	20.6
Silt	>0.005 mm	6.0
Clay	<0.005 mm	1.7
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-RIDB8-82.5-82.8
 Depth, ft: 82.6

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	35.80	64.20	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	53.81	46.19	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	58.11	41.89	0.033	0.841	0.25	20	0.00	100.00
0.250	6.35	-2.67	1/4	61.94	38.06	0.028	0.707	0.50	25	0.24	99.76
0.187	4.76	-2.25	4	64.34	35.66	0.023	0.595	0.75	30	1.22	98.78
0.132	3.36	-1.75	6	66.56	33.44	0.020	0.500	1.00	35	3.16	96.84
0.079	2.00	-1.00	10	68.79	31.21	0.017	0.420	1.25	40	5.63	94.37
0.056	1.414	-0.50	14	69.88	30.12	0.0139	0.3536	1.50	45	7.91	92.09
0.039	1.000	0.00	18	70.99	29.01	0.0117	0.2973	1.75	50	9.46	90.54
0.028	0.707	0.50	25	72.11	27.89	0.0098	0.2500	2.00	60	11.15	88.85
0.020	0.500	1.00	35	73.23	26.77	0.0083	0.2102	2.25	70	12.61	87.39
0.017	0.420	1.25	40	73.72	26.28	0.0070	0.1768	2.50	80	14.56	85.44
0.014	0.354	1.50	45	74.31	25.69	0.0059	0.1487	2.75	100	17.18	82.82
0.010	0.250	2.00	60	75.57	24.43	0.0049	0.1250	3.00	120	20.05	79.95
0.007	0.1768	2.50	80	76.95	23.05	0.0041	0.1051	3.25	140	22.71	77.29
0.005	0.1250	3.00	120	78.91	21.09	0.0035	0.0884	3.50	170	25.27	74.73
0.003	0.0743	3.75	200	81.67	18.33	0.0029	0.0743	3.75	200	28.06	71.94
0.002	0.0526	4.25	270	82.01	17.99	0.0025	0.0625	4.00	230	31.21	68.79
0.001	0.0372	4.75	400	82.06	17.94	0.0021	0.0526	4.25	270	34.58	65.42
			PAN	100	0.00	0.0017	0.0442	4.50	325	38.01	61.99
						0.0015	0.0372	4.75	400	41.52	58.48
						0.0012	0.0313	5.00	450	45.09	54.91
						0.0010	0.0250	5.32	500	48.65	51.35
						0.0008	0.0201	5.64	635	53.06	46.94
						0.0006	0.0156	6.00		57.29	42.71
						0.0004	0.0110	6.50		61.89	38.11
						0.0003	0.0078	7.00		68.26	31.74
						0.0002	0.0050	7.65		74.43	25.57
						0.00008	0.00195	9.00		81.61	18.39
						0.00004	0.00098	10.00		92.65	7.35
						0.00002	0.00049	11.00		97.47	2.53
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB8-82.5-82.8
Depth, ft: 82.6

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	35.8	64.2	35.8
0.492	12.5	-3.64	1/2	18.0	46.2	53.8
0.374	9.50	-3.25	3/8	4.3	41.9	58.1
0.250	6.35	-2.67	1/4	3.8	38.1	61.9
0.1873	4.76	-2.25	4	2.4	35.7	64.3
0.1324	3.364	-1.75	6	2.2	33.4	66.6
0.0787	2.000	-1.00	10	2.2	31.2	68.8
0.0557	1.414	-0.50	14	1.1	30.1	69.9
0.0394	1.000	0.00	18	1.1	29.0	71.0
0.0278	0.707	0.50	25	1.1	27.9	72.1
0.0197	0.500	1.00	35	1.1	26.8	73.2
0.01655	0.420	1.25	40	0.5	26.3	73.7
0.01392	0.354	1.50	45	0.6	25.7	74.3
0.00984	0.2500	2.00	60	1.3	24.4	75.6
0.00696	0.1768	2.50	80	1.4	23.1	76.9
0.00492	0.1250	3.00	120	2.0	21.1	78.9
0.00293	0.0743	3.75	200	2.8	18.3	81.7
0.00004	0.0010	10.00		11.0	7.4	92.6
0.00002	0.0005	11.00		4.8	2.5	97.5
0.00001	0.0004	11.38		2.5	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-5.15	1.3951	35.436
10	-5.07	1.3183	33.485
16	-4.97	1.2317	31.286
25	-4.82	1.1124	28.255
40	-4.41	0.8374	21.270
50	-3.86	0.5699	14.475
60	-2.96	0.3066	7.786
75	1.77	0.0115	0.293
84	5.08	0.0012	0.030
90	8.49	0.0001	0.003
95	10.49	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	-3.86	-3.86	-3.86
Median, in.	0.5699	0.5699	0.5699
Median, mm	14.475	14.475	14.475
Mean, phi	-3.84	0.05	-1.25
Mean, in.	0.5620	0.0379	0.0936
Mean, mm	14.274	0.963	2.376
Sorting	9.828	5.022	4.880
Skewness	0.199	0.779	0.807
Kurtosis	0.418	0.557	0.972

Grain Size Description (ASTM-USCS Scale)	Gravel (based on Trask Median)
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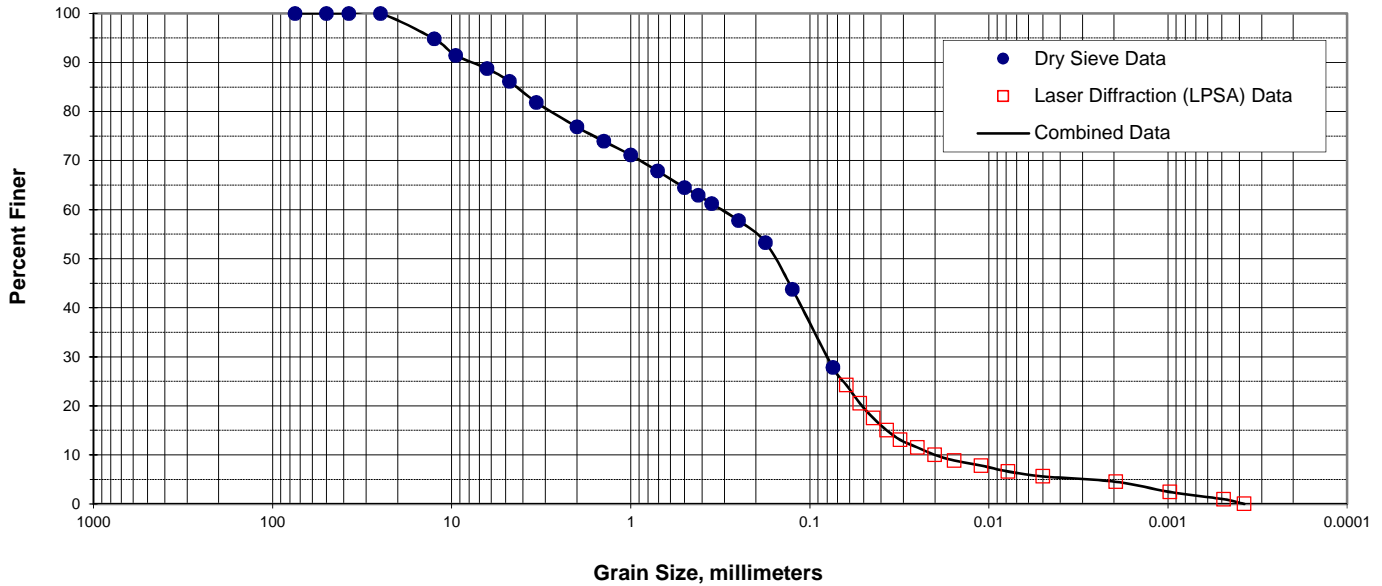
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	64.3
Coarse Sand	10	4.5
Medium Sand	40	4.9
Fine Sand	200	7.9
Silt	>0.005 mm	11.8
Clay	<0.005 mm	6.5
Total		100

Notes: Silt and clay Weight Percent are ratios of dry sieve fine fraction based on laser diffraction data.
 Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-RIDB13-25.5-26.0
 Depth, ft: 25.5-26.0

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	5.19	94.81	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	8.54	91.46	0.033	0.841	0.25	20	7.46	92.54
0.250	6.35	-2.67	1/4	11.23	88.77	0.028	0.707	0.50	25	14.12	85.88
0.187	4.76	-2.25	4	13.85	86.15	0.023	0.595	0.75	30	17.60	82.40
0.132	3.36	-1.75	6	18.13	81.87	0.020	0.500	1.00	35	20.68	79.32
0.079	2.00	-1.00	10	23.14	76.86	0.017	0.420	1.25	40	23.32	76.68
0.056	1.414	-0.50	14	26.05	73.95	0.0139	0.3536	1.50	45	25.62	74.38
0.039	1.000	0.00	18	28.87	71.13	0.0117	0.2973	1.75	50	27.50	72.50
0.028	0.707	0.50	25	32.13	67.87	0.0098	0.2500	2.00	60	30.59	69.41
0.020	0.500	1.00	35	35.54	64.46	0.0083	0.2102	2.25	70	34.25	65.75
0.017	0.420	1.25	40	37.06	62.94	0.0070	0.1768	2.50	80	39.19	60.81
0.014	0.354	1.50	45	38.75	61.25	0.0059	0.1487	2.75	100	45.31	54.69
0.010	0.250	2.00	60	42.23	57.77	0.0049	0.1250	3.00	120	52.27	47.73
0.007	0.1768	2.50	80	46.72	53.28	0.0041	0.1051	3.25	140	59.31	40.69
0.005	0.1250	3.00	120	56.26	43.74	0.0035	0.0884	3.50	170	65.77	34.23
0.003	0.0743	3.75	200	72.20	27.80	0.0029	0.0743	3.75	200	71.26	28.74
0.002	0.0526	4.25	270	76.07	23.93	0.0025	0.0625	4.00	230	75.78	24.22
0.001	0.0372	4.75	400	76.61	23.39	0.0021	0.0526	4.25	270	79.49	20.51
			PAN	100	0.00	0.0017	0.0442	4.50	325	82.52	17.48
						0.0015	0.0372	4.75	400	84.99	15.01
						0.0012	0.0313	5.00	450	86.96	13.04
						0.0010	0.0250	5.32	500	88.50	11.50
						0.0008	0.0201	5.64	635	90.00	10.00
						0.0006	0.0156	6.00		91.14	8.86
						0.0004	0.0110	6.50		92.18	7.82
						0.0003	0.0078	7.00		93.39	6.61
						0.0002	0.0050	7.65		94.39	5.61
						0.00008	0.00195	9.00		95.49	4.51
						0.00004	0.00098	10.00		97.56	2.44
						0.00002	0.00049	11.00		99.05	0.95
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB13-25.5-26.0
Depth, ft: 25.5-26.0

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	5.2	94.8	5.2
0.374	9.50	-3.25	3/8	3.3	91.5	8.5
0.250	6.35	-2.67	1/4	2.7	88.8	11.2
0.1873	4.76	-2.25	4	2.6	86.2	13.8
0.1324	3.364	-1.75	6	4.3	81.9	18.1
0.0787	2.000	-1.00	10	5.0	76.9	23.1
0.0557	1.414	-0.50	14	2.9	74.0	26.0
0.0394	1.000	0.00	18	2.8	71.1	28.9
0.0278	0.707	0.50	25	3.3	67.9	32.1
0.0197	0.500	1.00	35	3.4	64.5	35.5
0.01655	0.420	1.25	40	1.5	62.9	37.1
0.01392	0.354	1.50	45	1.7	61.3	38.7
0.00984	0.2500	2.00	60	3.5	57.8	42.2
0.00696	0.1768	2.50	80	4.5	53.3	46.7
0.00492	0.1250	3.00	120	9.5	43.7	56.3
0.00293	0.0743	3.75	200	15.9	27.8	72.2
0.00246	0.0625	4.00	230	3.6	24.2	75.8
0.00207	0.0526	4.25	270	3.7	20.5	79.5
0.00174	0.0442	4.50	325	3.0	17.5	82.5
0.00146	0.0372	4.75	400	2.5	15.0	85.0
0.00123	0.0313	5.00	450	2.0	13.0	87.0
0.00099	0.0250	5.32	500	1.5	11.5	88.5
0.00079	0.0201	5.64	635	1.5	10.0	90.0
0.00062	0.0156	6.00		1.1	8.9	91.1
0.00043	0.0110	6.50		1.0	7.8	92.2
0.00031	0.0078	7.00		1.2	6.6	93.4
0.00020	0.0050	7.65		1.0	5.6	94.4
0.00008	0.0020	9.00		1.1	4.5	95.5
0.00004	0.0010	10.00		2.1	2.4	97.6
0.00002	0.0005	11.00		1.5	1.0	99.0
0.00001	0.0004	11.38		1.0	0.0	100.0
TOTALS				100.0	100.0	

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.68	0.5051	12.829
10	-2.93	0.3007	7.638
16	-2.00	0.1574	3.997
25	-0.68	0.0631	1.602
40	1.68	0.0123	0.312
50	2.67	0.0062	0.157
60	3.18	0.0044	0.111
75	3.95	0.0026	0.065
84	4.65	0.0016	0.040
90	5.64	0.0008	0.020
95	8.40	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	2.67	2.67	2.67
Median, in.	0.0062	0.0062	0.0062
Median, mm	0.157	0.157	0.157
Mean, phi	0.26	1.33	1.77
Mean, in.	0.0328	0.0157	0.0115
Mean, mm	0.833	0.399	0.292
Sorting	4.968	3.324	3.493
Skewness	2.055	-0.405	-0.228
Kurtosis	0.101	0.817	1.071

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)
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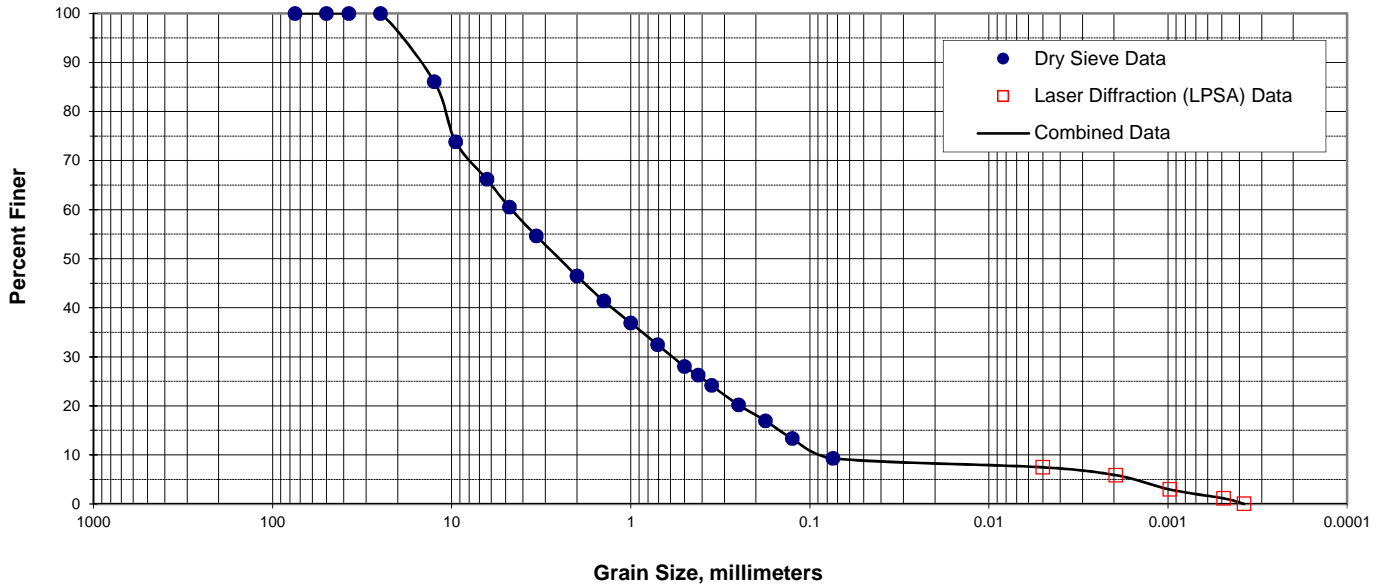
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	13.8
Coarse Sand	10	9.3
Medium Sand	40	13.9
Fine Sand	200	35.1
Silt	>0.005 mm	22.2
Clay	<0.005 mm	5.6
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-RIDB14-16.0-16.5
 Depth, ft: 16.0-16.5

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	13.93	86.07	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	26.18	73.82	0.033	0.841	0.25	20	20.12	79.88
0.250	6.35	-2.67	1/4	33.85	66.15	0.028	0.707	0.50	25	33.03	66.97
0.187	4.76	-2.25	4	39.51	60.49	0.023	0.595	0.75	30	38.33	61.67
0.132	3.36	-1.75	6	45.35	54.65	0.020	0.500	1.00	35	43.33	56.67
0.079	2.00	-1.00	10	53.51	46.49	0.017	0.420	1.25	40	48.26	51.74
0.056	1.414	-0.50	14	58.63	41.37	0.0139	0.3536	1.50	45	52.71	47.29
0.039	1.000	0.00	18	63.09	36.91	0.0117	0.2973	1.75	50	55.72	44.28
0.028	0.707	0.50	25	67.55	32.45	0.0098	0.2500	2.00	60	58.99	41.01
0.020	0.500	1.00	35	72.01	27.99	0.0083	0.2102	2.25	70	61.61	38.39
0.017	0.420	1.25	40	73.77	26.23	0.0070	0.1768	2.50	80	64.46	35.54
0.014	0.354	1.50	45	75.87	24.13	0.0059	0.1487	2.75	100	67.45	32.55
0.010	0.250	2.00	60	79.80	20.20	0.0049	0.1250	3.00	120	70.27	29.73
0.007	0.1768	2.50	80	83.05	16.95	0.0041	0.1051	3.25	140	72.84	27.16
0.005	0.1250	3.00	120	86.68	13.32	0.0035	0.0884	3.50	170	75.23	24.77
0.003	0.0743	3.75	200	90.69	9.31	0.0029	0.0743	3.75	200	77.48	22.52
0.002	0.0526	4.25	270	91.03	8.97	0.0025	0.0625	4.00	230	79.54	20.46
0.001	0.0372	4.75	400	91.06	8.94	0.0021	0.0526	4.25	270	81.37	18.63
			PAN	100	0.00	0.0017	0.0442	4.50	325	82.96	17.04
						0.0015	0.0372	4.75	400	84.36	15.64
						0.0012	0.0313	5.00	450	85.56	14.44
						0.0010	0.0250	5.32	500	86.60	13.40
						0.0008	0.0201	5.64	635	87.74	12.26
						0.0006	0.0156	6.00		88.74	11.26
						0.0004	0.0110	6.50		89.79	10.21
						0.0003	0.0078	7.00		91.19	8.81
						0.0002	0.0050	7.65		92.53	7.47
						0.00008	0.00195	9.00		94.14	5.86
						0.00004	0.00098	10.00		97.07	2.93
						0.00002	0.00049	11.00		98.87	1.13
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB14-16.0-16.5
Depth, ft: 16.0-16.5

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	13.9	86.1	13.9
0.374	9.50	-3.25	3/8	12.3	73.8	26.2
0.250	6.35	-2.67	1/4	7.7	66.2	33.9
0.1873	4.76	-2.25	4	5.7	60.5	39.5
0.1324	3.364	-1.75	6	5.8	54.7	45.4
0.0787	2.000	-1.00	10	8.2	46.5	53.5
0.0557	1.414	-0.50	14	5.1	41.4	58.6
0.0394	1.000	0.00	18	4.5	36.9	63.1
0.0278	0.707	0.50	25	4.5	32.5	67.6
0.0197	0.500	1.00	35	4.5	28.0	72.0
0.01655	0.420	1.25	40	1.8	26.2	73.8
0.01392	0.354	1.50	45	2.1	24.1	75.9
0.00984	0.2500	2.00	60	3.9	20.2	79.8
0.00696	0.1768	2.50	80	3.3	17.0	83.1
0.00492	0.1250	3.00	120	3.6	13.3	86.7
0.00293	0.0743	3.75	200	4.0	9.3	90.7
0.00020	0.0050	7.65		1.8	7.5	92.5
0.00008	0.0020	9.00		1.6	5.9	94.1
0.00004	0.0010	10.00		2.9	2.9	97.1
0.00002	0.0005	11.00		1.8	1.1	98.9
0.00001	0.0004	11.38		1.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.29	0.7675	19.495
10	-3.93	0.5985	15.201
16	-3.58	0.4699	11.935
25	-3.29	0.3841	9.755
40	-2.21	0.1819	4.620
50	-1.32	0.0985	2.501
60	-0.35	0.0501	1.271
75	1.40	0.0150	0.380
84	2.63	0.0064	0.161
90	3.62	0.0032	0.081
95	9.29	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.32	-1.32	-1.32
Median, in.	0.0985	0.0985	0.0985
Median, mm	2.501	2.501	2.501
Mean, phi	-2.34	-0.47	-0.76
Mean, in.	0.1995	0.0546	0.0665
Mean, mm	5.067	1.388	1.689
Sorting	5.068	3.104	3.609
Skewness	0.770	0.274	0.419
Kurtosis	0.310	1.187	1.188

Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Trask Median)
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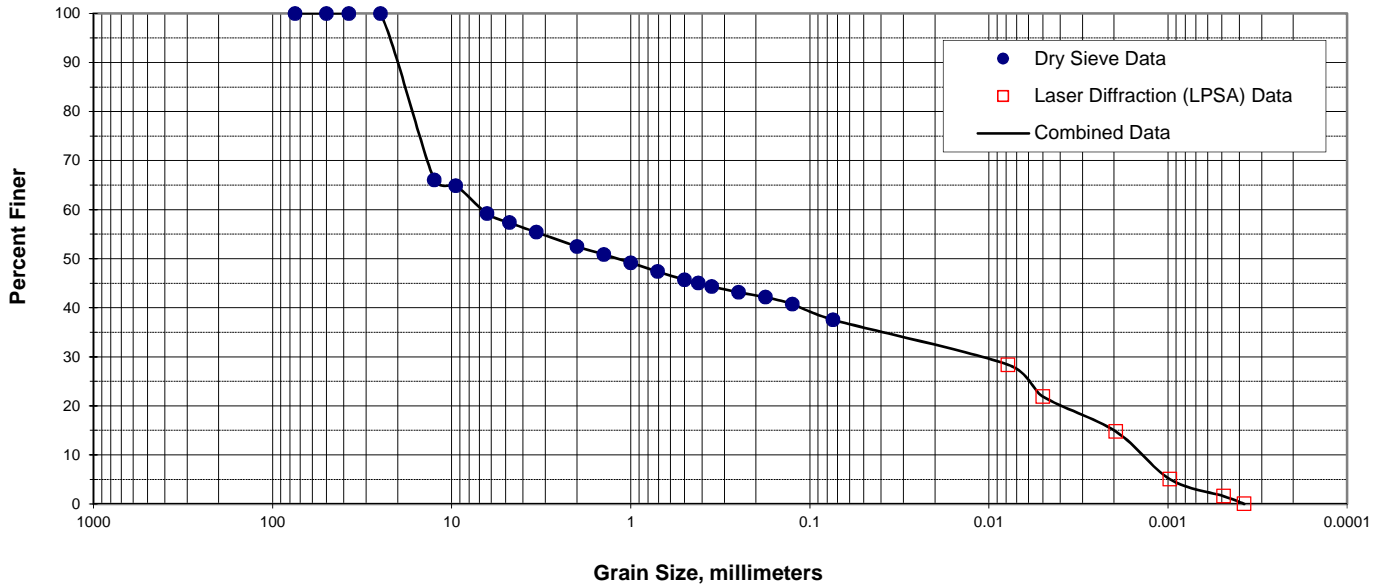
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	39.5
Coarse Sand	10	14.0
Medium Sand	40	20.3
Fine Sand	200	16.9
Silt	>0.005 mm	1.8
Clay	<0.005 mm	7.5
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-RIDB14-81.0-81.5
 Depth, ft: 81.0-81.5

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	33.94	66.06	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	35.10	64.90	0.033	0.841	0.25	20	0.23	99.77
0.250	6.35	-2.67	1/4	40.78	59.22	0.028	0.707	0.50	25	6.66	93.34
0.187	4.76	-2.25	4	42.66	57.34	0.023	0.595	0.75	30	9.98	90.02
0.132	3.36	-1.75	6	44.62	55.38	0.020	0.500	1.00	35	12.72	87.28
0.079	2.00	-1.00	10	47.51	52.49	0.017	0.420	1.25	40	15.13	84.87
0.056	1.414	-0.50	14	49.13	50.87	0.0139	0.3536	1.50	45	16.88	83.12
0.039	1.000	0.00	18	50.84	49.16	0.0117	0.2973	1.75	50	17.65	82.35
0.028	0.707	0.50	25	52.64	47.36	0.0098	0.2500	2.00	60	18.08	81.92
0.020	0.500	1.00	35	54.32	45.68	0.0083	0.2102	2.25	70	18.49	81.51
0.017	0.420	1.25	40	54.97	45.03	0.0070	0.1768	2.50	80	19.42	80.58
0.014	0.354	1.50	45	55.65	44.35	0.0059	0.1487	2.75	100	20.83	79.17
0.010	0.250	2.00	60	56.86	43.14	0.0049	0.1250	3.00	120	22.39	77.61
0.007	0.1768	2.50	80	57.86	42.14	0.0041	0.1051	3.25	140	24.02	75.98
0.005	0.1250	3.00	120	59.28	40.72	0.0035	0.0884	3.50	170	25.99	74.01
0.003	0.0743	3.75	200	62.44	37.56	0.0029	0.0743	3.75	200	28.58	71.42
0.002	0.0526	4.25	270	62.90	37.10	0.0025	0.0625	4.00	230	31.81	68.19
0.001	0.0372	4.75	400	62.95	37.05	0.0021	0.0526	4.25	270	35.49	64.51
			PAN	100	0.00	0.0017	0.0442	4.50	325	39.31	60.69
						0.0015	0.0372	4.75	400	43.20	56.80
						0.0012	0.0313	5.00	450	47.08	52.92
						0.0010	0.0250	5.32	500	50.87	49.13
						0.0008	0.0201	5.64	635	55.48	44.52
						0.0006	0.0156	6.00		59.90	40.10
						0.0004	0.0110	6.50		64.78	35.22
						0.0003	0.0078	7.00		71.63	28.37
						0.0002	0.0050	7.65		78.10	21.90
						0.00008	0.00195	9.00		85.25	14.75
						0.00004	0.00098	10.00		94.95	5.05
						0.00002	0.00049	11.00		98.43	1.57
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-RIDB14-81.0-81.5
Depth, ft: 81.0-81.5

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	33.9	66.1	33.9
0.374	9.50	-3.25	3/8	1.2	64.9	35.1
0.250	6.35	-2.67	1/4	5.7	59.2	40.8
0.1873	4.76	-2.25	4	1.9	57.3	42.7
0.1324	3.364	-1.75	6	2.0	55.4	44.6
0.0787	2.000	-1.00	10	2.9	52.5	47.5
0.0557	1.414	-0.50	14	1.6	50.9	49.1
0.0394	1.000	0.00	18	1.7	49.2	50.8
0.0278	0.707	0.50	25	1.8	47.4	52.6
0.0197	0.500	1.00	35	1.7	45.7	54.3
0.01655	0.420	1.25	40	0.7	45.0	55.0
0.01392	0.354	1.50	45	0.7	44.4	55.6
0.00984	0.2500	2.00	60	1.2	43.1	56.9
0.00696	0.1768	2.50	80	1.0	42.1	57.9
0.00492	0.1250	3.00	120	1.4	40.7	59.3
0.00293	0.0743	3.75	200	3.2	37.6	62.4
0.00031	0.0078	7.00		9.2	28.4	71.6
0.00020	0.0050	7.65		6.5	21.9	78.1
0.00008	0.0020	9.00		7.1	14.8	85.2
0.00004	0.0010	10.00		9.7	5.0	95.0
0.00002	0.0005	11.00		3.5	1.6	98.4
0.00001	0.0004	11.38		1.6	0.0	100.0
TOTALS				100.0	100.0	

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.50	0.8888	22.575
10	-4.35	0.8025	20.383
16	-4.17	0.7099	18.032
25	-3.91	0.5907	15.004
40	-2.75	0.2643	6.713
50	-0.24	0.0466	1.185
60	3.17	0.0044	0.111
75	7.34	0.0002	0.006
84	8.76	0.0001	0.002
90	9.49	0.0001	0.001
95	10.01	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.24	-0.24	-0.24
Median, in.	0.0466	0.0466	0.0466
Median, mm	1.185	1.185	1.185
Mean, phi	-2.91	2.30	1.45
Mean, in.	0.2955	0.0080	0.0144
Mean, mm	7.505	0.204	0.366
Sorting	49.228	6.468	5.433
Skewness	0.257	0.393	0.403
Kurtosis	0.368	0.122	0.529

Grain Size Description (ASTM-USCS Scale) Medium sand (based on Trask Median)

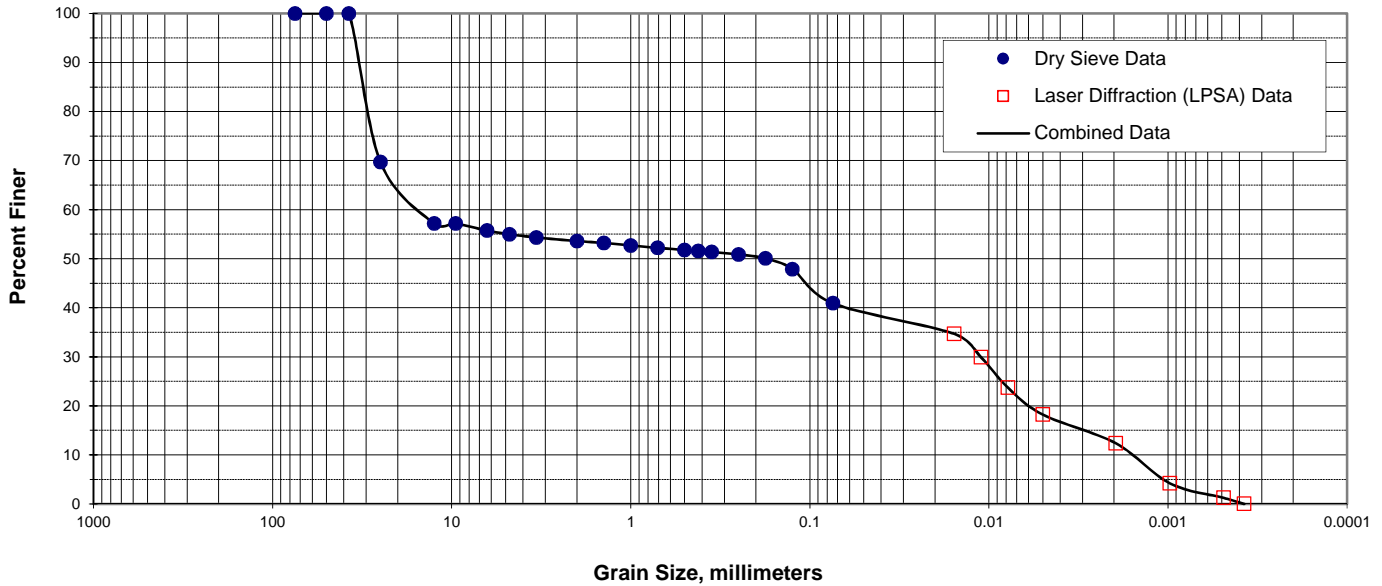
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	42.7
Coarse Sand	10	4.8
Medium Sand	40	7.5
Fine Sand	200	7.5
Silt	>0.005 mm	15.7
Clay	<0.005 mm	21.9
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3

PTS File No: 47115
 Sample ID: PT-M201-64.0-64.5
 Depth, ft: 64.0-64.5

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	30.27	69.73	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	42.85	57.15	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	42.85	57.15	0.033	0.841	0.25	20	0.28	99.72
0.250	6.35	-2.67	1/4	44.28	55.72	0.028	0.707	0.50	25	2.62	97.38
0.187	4.76	-2.25	4	45.03	54.97	0.023	0.595	0.75	30	3.71	96.29
0.132	3.36	-1.75	6	45.67	54.33	0.020	0.500	1.00	35	4.75	95.25
0.079	2.00	-1.00	10	46.41	53.59	0.017	0.420	1.25	40	5.86	94.14
0.056	1.414	-0.50	14	46.78	53.22	0.0139	0.3536	1.50	45	6.91	93.09
0.039	1.000	0.00	18	47.29	52.71	0.0117	0.2973	1.75	50	7.66	92.34
0.028	0.707	0.50	25	47.79	52.21	0.0098	0.2500	2.00	60	8.56	91.44
0.020	0.500	1.00	35	48.22	51.78	0.0083	0.2102	2.25	70	9.43	90.57
0.017	0.420	1.25	40	48.42	51.58	0.0070	0.1768	2.50	80	10.63	89.37
0.014	0.354	1.50	45	48.64	51.36	0.0059	0.1487	2.75	100	12.40	87.60
0.010	0.250	2.00	60	49.14	50.86	0.0049	0.1250	3.00	120	15.07	84.93
0.007	0.1768	2.50	80	49.96	50.04	0.0041	0.1051	3.25	140	18.72	81.28
0.005	0.1250	3.00	120	52.14	47.86	0.0035	0.0884	3.50	170	23.19	76.81
0.003	0.0743	3.75	200	59.09	40.91	0.0029	0.0743	3.75	200	28.17	71.83
0.002	0.0526	4.25	270	60.31	39.69	0.0025	0.0625	4.00	230	33.36	66.64
0.001	0.0372	4.75	400	60.46	39.54	0.0021	0.0526	4.25	270	38.48	61.52
			PAN	100	0.00	0.0017	0.0442	4.50	325	43.29	56.71
						0.0015	0.0372	4.75	400	47.77	52.23
						0.0012	0.0313	5.00	450	51.98	48.02
						0.0010	0.0250	5.32	500	55.97	44.03
						0.0008	0.0201	5.64	635	60.78	39.22
						0.0006	0.0156	6.00		65.33	34.67
						0.0004	0.0110	6.50		70.12	29.88
						0.0003	0.0078	7.00		76.32	23.68
						0.0002	0.0050	7.65		81.80	18.20
						0.00008	0.00195	9.00		87.65	12.35
						0.00004	0.00098	10.00		95.81	4.19
						0.00002	0.00049	11.00		98.77	1.23
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M201-64.0-64.5
Depth, ft: 64.0-64.5

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	30.3	69.7	30.3
0.492	12.5	-3.64	1/2	12.6	57.1	42.9
0.374	9.50	-3.25	3/8	0.0	57.1	42.9
0.250	6.35	-2.67	1/4	1.4	55.7	44.3
0.1873	4.76	-2.25	4	0.8	55.0	45.0
0.1324	3.364	-1.75	6	0.6	54.3	45.7
0.0787	2.000	-1.00	10	0.7	53.6	46.4
0.0557	1.414	-0.50	14	0.4	53.2	46.8
0.0394	1.000	0.00	18	0.5	52.7	47.3
0.0278	0.707	0.50	25	0.5	52.2	47.8
0.0197	0.500	1.00	35	0.4	51.8	48.2
0.01655	0.420	1.25	40	0.2	51.6	48.4
0.01392	0.354	1.50	45	0.2	51.4	48.6
0.00984	0.2500	2.00	60	0.5	50.9	49.1
0.00696	0.1768	2.50	80	0.8	50.0	50.0
0.00492	0.1250	3.00	120	2.2	47.9	52.1
0.00293	0.0743	3.75	200	7.0	40.9	59.1
0.00062	0.0156	6.00		6.2	34.7	65.3
0.00043	0.0110	6.50		4.8	29.9	70.1
0.00031	0.0078	7.00		6.2	23.7	76.3
0.00020	0.0050	7.65		5.5	18.2	81.8
0.00008	0.0020	9.00		5.9	12.3	87.7
0.00004	0.0010	10.00		8.2	4.2	95.8
0.00002	0.0005	11.00		3.0	1.2	98.8
0.00001	0.0004	11.38		1.2	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-5.13	1.3808	35.071
10	-5.04	1.2913	32.800
16	-4.92	1.1916	30.267
25	-4.75	1.0563	26.831
40	-3.56	0.4657	11.830
50	2.51	0.0069	0.176
60	4.08	0.0023	0.059
75	6.89	0.0003	0.008
84	8.15	0.0001	0.004
90	9.29	0.0001	0.002
95	9.90	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	2.51	2.51	2.51
Median, in.	0.0069	0.0069	0.0069
Median, mm	0.176	0.176	0.176
Mean, phi	-3.75	1.62	1.91
Mean, in.	0.5283	0.0128	0.0104
Mean, mm	13.420	0.326	0.265
Sorting	56.476	6.537	5.546
Skewness	2.705	-0.136	-0.077
Kurtosis	0.409	0.150	0.529

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)
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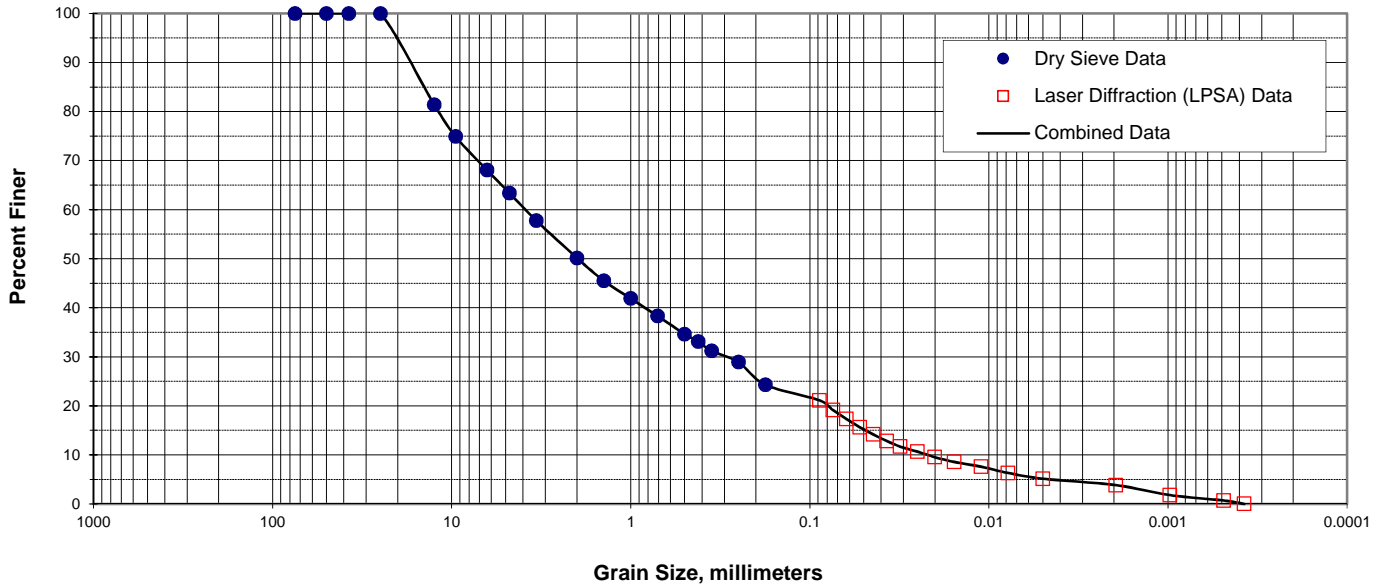
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	45.0
Coarse Sand	10	1.4
Medium Sand	40	2.0
Fine Sand	200	10.7
Silt	>0.005 mm	22.7
Clay	<0.005 mm	18.2
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M202-14.0-14.5
Depth, ft: 14.0-14.5

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	18.64	81.36	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	25.11	74.89	0.033	0.841	0.25	20	28.22	71.78
0.250	6.35	-2.67	1/4	31.93	68.07	0.028	0.707	0.50	25	42.53	57.47
0.187	4.76	-2.25	4	36.59	63.41	0.023	0.595	0.75	30	47.98	52.02
0.132	3.36	-1.75	6	42.24	57.76	0.020	0.500	1.00	35	52.62	47.38
0.079	2.00	-1.00	10	49.84	50.16	0.017	0.420	1.25	40	56.73	43.27
0.056	1.414	-0.50	14	54.50	45.50	0.0139	0.3536	1.50	45	60.34	39.66
0.039	1.000	0.00	18	58.10	41.90	0.0117	0.2973	1.75	50	62.91	37.09
0.028	0.707	0.50	25	61.70	38.30	0.0098	0.2500	2.00	60	65.91	34.09
0.020	0.500	1.00	35	65.37	34.63	0.0083	0.2102	2.25	70	68.21	31.79
0.017	0.420	1.25	40	66.92	33.08	0.0070	0.1768	2.50	80	70.42	29.58
0.014	0.354	1.50	45	68.80	31.20	0.0059	0.1487	2.75	100	72.58	27.42
0.010	0.250	2.00	60	71.09	28.91	0.0049	0.1250	3.00	120	74.71	25.29
0.007	0.1768	2.50	80	75.72	24.28	0.0041	0.1051	3.25	140	76.82	23.18
0.005	0.1250	3.00	120	79.86	20.14	0.0035	0.0884	3.50	170	78.88	21.12
0.003	0.0743	3.75	200	85.10	14.90	0.0029	0.0743	3.75	200	80.86	19.14
0.002	0.0526	4.25	270	85.73	14.27	0.0025	0.0625	4.00	230	82.70	17.30
0.001	0.0372	4.75	400	85.78	14.22	0.0021	0.0526	4.25	270	84.37	15.63
			PAN	100	0.00	0.0017	0.0442	4.50	325	85.85	14.15
						0.0015	0.0372	4.75	400	87.16	12.84
						0.0012	0.0313	5.00	450	88.32	11.68
						0.0010	0.0250	5.32	500	89.34	10.66
						0.0008	0.0201	5.64	635	90.46	9.54
						0.0006	0.0156	6.00		91.43	8.57
						0.0004	0.0110	6.50		92.42	7.58
						0.0003	0.0078	7.00		93.69	6.31
						0.0002	0.0050	7.65		94.86	5.14
						0.00008	0.00195	9.00		96.17	3.83
						0.00004	0.00098	10.00		98.20	1.80
						0.00002	0.00049	11.00		99.30	0.70
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3

PTS File No: 47115
Sample ID: PT-M202-14.0-14.5
Depth, ft: 14.0-14.5

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	18.6	81.4	18.6
0.374	9.50	-3.25	3/8	6.5	74.9	25.1
0.250	6.35	-2.67	1/4	6.8	68.1	31.9
0.1873	4.76	-2.25	4	4.7	63.4	36.6
0.1324	3.364	-1.75	6	5.7	57.8	42.2
0.0787	2.000	-1.00	10	7.6	50.2	49.8
0.0557	1.414	-0.50	14	4.7	45.5	54.5
0.0394	1.000	0.00	18	3.6	41.9	58.1
0.0278	0.707	0.50	25	3.6	38.3	61.7
0.0197	0.500	1.00	35	3.7	34.6	65.4
0.01655	0.420	1.25	40	1.6	33.1	66.9
0.01392	0.354	1.50	45	1.9	31.2	68.8
0.00984	0.2500	2.00	60	2.3	28.9	71.1
0.00696	0.1768	2.50	80	4.6	24.3	75.7
0.00348	0.0884	3.50	170	3.2	21.1	78.9
0.00293	0.0743	3.75	200	2.0	19.1	80.9
0.00246	0.0625	4.00	230	1.8	17.3	82.7
0.00207	0.0526	4.25	270	1.7	15.6	84.4
0.00174	0.0442	4.50	325	1.5	14.1	85.9
0.00146	0.0372	4.75	400	1.3	12.8	87.2
0.00123	0.0313	5.00	450	1.2	11.7	88.3
0.00099	0.0250	5.32	500	1.0	10.7	89.3
0.00079	0.0201	5.64	635	1.1	9.5	90.5
0.00062	0.0156	6.00		1.0	8.6	91.4
0.00043	0.0110	6.50		1.0	7.6	92.4
0.00031	0.0078	7.00		1.3	6.3	93.7
0.00020	0.0050	7.65		1.2	5.1	94.9
0.00008	0.0020	9.00		1.3	3.8	96.2
0.00004	0.0010	10.00		2.0	1.8	98.2
0.00002	0.0005	11.00		1.1	0.7	99.3
0.00001	0.0004	11.38		0.7	0.0	100.0
TOTALS				100.0	100.0	

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.38	0.8173	20.760
10	-4.11	0.6786	17.237
16	-3.79	0.5429	13.789
25	-3.25	0.3757	9.543
40	-1.95	0.1520	3.860
50	-0.98	0.0778	1.976
60	0.26	0.0328	0.833
75	2.42	0.0073	0.187
84	4.19	0.0022	0.055
90	5.51	0.0009	0.022
95	7.79	0.0002	0.005

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.98	-0.98	-0.98
Median, in.	0.0778	0.0778	0.0778
Median, mm	1.976	1.976	1.976
Mean, phi	-2.28	0.20	-0.19
Mean, in.	0.1915	0.0342	0.0449
Mean, mm	4.865	0.868	1.142
Sorting	7.153	3.990	3.839
Skewness	0.675	0.298	0.370
Kurtosis	0.272	0.525	0.878

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	36.6
Coarse Sand	10	13.2
Medium Sand	40	17.1
Fine Sand	200	13.9
Silt	>0.005 mm	14.0
Clay	<0.005 mm	5.1
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ORGANIC CARBON DATA - TOC (foc)
 (Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-M221-28.7-29.0	28.7-29.0	20170404	1210	SOIL	310	3.10E-04
PT-M221-75.0-75.3	75.0-75.3	20170404	1210	SOIL	<100	<1.00E-04
PT-M222-9.0-9.3	9.0-9.3	20170404	1210	SOIL	200	2.00E-04
PT-M222-16.7-17.0	16.7-17.0	20170404	1210	SOIL	110	1.10E-04
PT-M222-42.5-42.8	42.6	20170404	1210	SOIL	<100	<1.00E-04
PT-M222-57.6-57.9	57.6-57.9	20170404	1210	SOIL	<100	<1.00E-04
PT-M222-65.0-65.4	65.1	20170404	1210	SOIL	400	4.00E-04
PT-M222-77.0-77.3	77.0-77.3	20170404	1210	SOIL	<100	<1.00E-04
PT-M222-80.2-80.6	80.3	20170404	1210	SOIL	220	2.20E-04
PT-M222-105.0-105.4	105.3	20170404	1210	SOIL	<100	<1.00E-04

Blank	N/A	20170404	1210	BLANK	ND	ND
SRM D093-542	N/A	20170404	1210	SRM	6510	6.51E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	116	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ORGANIC CARBON DATA - TOC (foc)
 (Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-M72D-19.3-19.6	19.3-19.6	20170413	1030	SOIL	<100	<1.00E-04
PT-M72D-34.0-34.3	34.0-34.3	20170413	1030	SOIL	<100	<1.00E-04
PT-M72D-49.5-49.8	49.5-49.8	20170413	1030	SOIL	290	2.90E-04
PT-M72D-64.2-64.5	64.2-64.5	20170413	1030	SOIL	<100	<1.00E-04
PT-M72D-65.8-66.1	65.8-66.1	20170413	1030	SOIL	<100	<1.00E-04
PT-M66D-21.0-21.3	21.0-21.3	20170413	1030	SOIL	<100	<1.00E-04
PT-M66D-38.5-38.8	38.6	20170413	1030	SOIL	<100	<1.00E-04
PT-M66D-48.5-48.8	48.5-48.8	20170413	1030	SOIL	<100	<1.00E-04
PT-M66D-50.7-51.0	50.8	20170413	1030	SOIL	<100	<1.00E-04
PT-M66D-64.0-64.3	64.0-64.3	20170413	1030	SOIL	<100	<1.00E-04

Blank	N/A	20170413	1030	BLANK	ND	ND
SRM D093-542	N/A	20170413	1030	SRM	6640	6.64E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	119	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ORGANIC CARBON DATA - TOC (foc)
 (Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-M140D-16.0-16.3	16.0-16.3	20170420	1415	SOIL	510	5.10E-04
PT-M140D-30.7-31.0	30.7-31.0	20170420	1415	SOIL	560	5.60E-04
PT-M140D-36.0-36.3	36.1	20170420	1415	SOIL	570	5.70E-04
PT-M140D-50.0-50.4	50.1	20170420	1415	SOIL	320	3.20E-04
PT-M140D-64.2-64.5	64.3	20170420	1415	SOIL	440	4.40E-04
PT-M22D-25.2-25.5	25.2-25.5	20170420	1415	SOIL	480	4.80E-04
PT-M22D-33.0-33.3	33.0-33.3	20170420	1415	SOIL	610	6.10E-04
PT-M5D-19.0-19.3	19.0-19.3	20170420	1415	SOIL	410	4.10E-04
PT-M5D-41.5-41.8	41.6	20170420	1415	SOIL	940	9.40E-04
PT-M5D-64.0-64.3	64.1	20170420	1415	SOIL	760	7.60E-04

Blank	N/A	20170420	1415	BLANK	ND	ND
SRM D093-542	N/A	20170420	1415	SRM	6760	6.76E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg Lower	Upper
SRM D093-542	121	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ORGANIC CARBON DATA - TOC (foc)
 (Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-M5D-69.7-70.0	69.7-70.0	20170427	1310	SOIL	870	8.70E-04
PT-RIDB8-33.4-33.7	33.5	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB8-36.3-36.6	36.4	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB8-64.5-64.8	64.6	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB8-76.1-76.4	76.2	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB8-82.5-82.8	82.6	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB9-33.5-33.8	33.6	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB9-64.0-64.3	64.0-64.3	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB9-65.0-65.3	65.1	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB9-74.2-74.5	74.2-74.5	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB9-82.1-82.4	82.2	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB10-36.0-36.3	36.0-36.3	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB10-61.5-61.8	61.5-61.8	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB10-76.5-77.0	76.6	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB10-81.5-82.0	81.9	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB13-25.5-26.0	25.5-26.0	20170427	1310	SOIL	<100	<1.00E-04
PT-RIDB13-63.0-63.5	63.1	20170427	1310	SOIL	<100	<1.00E-04

Blank	N/A	20170427	1310	BLANK	ND	ND
SRM D093-542	N/A	20170427	1310	SRM	6100	6.10E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	109	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ORGANIC CARBON DATA - TOC (foc)
 (Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RIDB13-78.2-78.7	78.3	20170428	1040	SOIL	<100	<1.00E-04
PT-RIDB13-81.0-81.4	81.1	20170428	1040	SOIL	<100	<1.00E-04
PT-RIDB14-16.0-16.5	16.0-16.5	20170428	1040	SOIL	<100	<1.00E-04

Blank	N/A	20170428	1040	BLANK	ND	ND
SRM D093-542	N/A	20170428	1040	SRM	5950	5.95E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	106	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47115
 Client: Ramboll Environ
 Report Date: 05/17/17

ORGANIC CARBON DATA - TOC (foc)
 (Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RIDB14-73.6-74.1	73.7	20170405	1315	SOIL	<100	<1.00E-04
PT-RIDB14-81.0-81.5	81.0-81.5	20170405	1315	SOIL	<100	<1.00E-04
PT-M201-29.0-29.5	29.0-29.5	20170405	1315	SOIL	<100	<1.00E-04
PT-M201-43.0-43.5	43.1	20170405	1315	SOIL	<100	<1.00E-04
PT-M201-57.0-57.5	57.1	20170405	1315	SOIL	<100	<1.00E-04
PT-M201-64.0-64.5	64.0-64.5	20170405	1315	SOIL	<100	<1.00E-04
PT-M202-14.0-14.5	14.0-14.5	20170405	1315	SOIL	<100	<1.00E-04

Blank	N/A	20170405	1315	BLANK	ND	ND
SRM D093-542	N/A	20170405	1315	SRM	5470	5.47E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	98	75-125	5590	4193	6988

ND = Not Detected

CHAIN-OF-CUSTODY FORM

No 12842

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #
 PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manton
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400C, MO3 LABORATORY PTS
 SAMPLER Amy Manton YEAR 2017 SIGNATURE [Signature]

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-M221-28.7-29.0	2/15/17	1515	28.7-29.0	1	S	1	U	No	X	
PT-M221-75.0-75.3	2/15/17	1525	75.0-75.3	1	S	1	U	No	X	* HOLD pending instruction by J. Donovan / Ramboll Environ
PT-M222-90-93	2/15/17	1500	90-93	1	S	1	U	No	X	
PT-M222-16.7-17.0	2/15/17	1508	16.7-17.0	1	S	1	U	No	X	
PT-M222-42.5-42.8	2/15/17	1536	42.5-42.8	1	S	1	U	No	X	
PT-M222-57.6-57.9	2/15/17	1520	57.6-57.9	1	S	1	U	No	X	
PT-M222-65.0-65.4	2/15/17	1550	65.0-65.4	1	S	1	U	No	X	
PT-M222-77.0-77.3	2/15/17	1530	77.0-77.3	1	S	1	U	No	X	
PT-M222-80.2-80.6	2/15/17	1558	80.2-80.6	1	S	1	U	No	X	
PT-M222-105.0-105.4	2/15/17	1605	105.0-105.4	1	S	1	U	No	X	
PT-M720-19.3-19.6	2/16/17	1330	19.3-19.6	1	S	1	U	No	X	
PT-M720-34.0-34.3	2/16/17	1353	34.0-34.3	1	S	1	U	No	X	
TOTAL					S	12	U	No		

RELINQUISHED BY [Signature] TIME/DATE 1450 / 3/1/17 RECEIVED BY COMPANY PTS LABS TIME/DATE 3/2/17 1538
 SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS **NORMAL**
 SAMPLE INTEGRITY INTACT Y N

CHAIN-OF-CUSTODY FORM

No. 12843

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #

PROJECT NAME/FACILITY ID: NERT FIELD PERSON#: Amy Marvon
 PROJECT LOCATION: Henderson, NV PROJECT MANAGER: Ross Russell
 PROJECT NUMBER: 2141400C, M03 LABORATORY: PTS
 SAMPLER: Amy Marvon YEAR: 2017 SIGNATURE: [Signature]

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-M72D-49.5-49.8	2/16/17	1400	49.5-49.8	1	S	1	U	NO	X	
PT-M72D-64.2-64.5	2/16/17	1405	64.2-64.5	1	S	1	U	NO	X	
PT-M72D-65.8-66.1	2/16/17	1415	65.8-66.1	1	S	1	U	NO	X	
PT-M66D-21.0-21.3	2/16/17	1045	21.0-21.3	1	S	1	U	NO	X	
PT-M66D-38.5-38.8	2/16/17	1049	38.5-38.8	1	S	1	U	NO	X	
PT-M66D-48.5-48.8	2/16/17	1056	48.5-48.8	1	S	1	U	NO	X	
PT-M66D-50.7-51.0	2/16/17	1104	50.7-51.0	1	S	1	U	NO	X	
PT-M66D-61.0-64.3	2/16/17	1108	61.0-64.3	1	S	1	U	NO	X	
PT-M140D-16.0-16.3	2/16/17	0910	16.0-16.3	1	S	1	U	NO	X	
PT-M140D-30.7-31.0	2/16/17	0915	30.7-31.0	1	S	1	U	NO	X	
PT-M140D-36.0-36.3	2/16/17	0922	36.0-36.3	1	S	1	U	NO	X	
PT-M140D-50.0-50.4	2/16/17	0926	50.0-50.4	1	S	1	U	NO	X	
TOTAL				1	S	12	U	NO		

RELINQUISHED BY: [Signature] (Felder) TIME/DATE: 1450 / 3/1/17 RECEIVED BY COMPANY: PTS LABS TIME/DATE: 3/2/17 1538 SAME DAY 72 HOURS
 RELINQUISHED BY: [Signature] TIME/DATE: _____ RECEIVED BY COMPANY: _____ TIME/DATE: _____ 24 HOURS 5 DAYS
 RELINQUISHED BY: _____ TIME/DATE: _____ RECEIVED BY COMPANY: _____ TIME/DATE: _____ 48 HOURS **NORMAL** SAMPLE INTEGRITY INTACT Y N

CHAIN-OF-CUSTODY FORM

No. 13113

47115

WORK ORDER #

IF YES, GLOBAL ID#

MSA #

WORK ORDER #

UST PROJECT OR IS EDF REQUIRED? YES NO

NERT

DATE 3/1/17

FIELD PERSON# Amy Manion

PROJECT NAME/FACILITY ID

Henderson, NV

PROJECT MANAGER Ross Russell

PROJECT LOCATION

2141400C, M03

LABORATORY PTS

SAMPLER

Amy Manion

YEAR 2017

SIGNATURE Amy Manion

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-M140D-64.2-64.5	2/16/17	0930	64.2-64.5	✓	S	1	U	NO	X	
PT-M22D-25.2-25.5	2/16/17	0941	25.2-25.5	-					X	
PT-M22D-33.0-33.3	2/16/17	0944	33.0-33.3	-					X	
PT-M5D-14.0-14.3	2/24/17	1224	14.0-14.3	-					X	
PT-M5D-41.5-41.8	2/22/17	1230	41.5-41.8	-					X	
PT-M5D-64.0-64.3	2/22/17	1236	64.0-64.3	-					X	
PT-M5D-69.7-70.0	2/22/17	1240	69.7-70.0	-					X	
PT-R10B8-33.4-33.7	2/24/17	1530	33.4-33.7	-					X	
PT-R10B8-36.3-36.6	2/24/17	1539	36.3-36.6	-					X	
PT-R10B8-64.5-64.8	2/24/17	1547	64.5-64.8	-					X	
PT-R10B8-76.1-76.4	2/24/17	1554	76.1-76.4	-					X	
PT-R10B8-82.5-82.8	2/24/17	1602	82.5-82.8	-					X	
TOTAL					S	12	U	NO		

RECEIVED BY: [Signature] COMPANY: [Signature] TIME/DATE: 1450 / 3/1/17

RECEIVED BY: [Signature] COMPANY: PTS LABS TIME/DATE: 69.37 3/2/17 1538

RECEIVED BY: [Signature] COMPANY: TIME/DATE:

RECEIVED BY: [Signature] COMPANY: TIME/DATE:

TURNAROUND TIME (CIRCLE ONE): SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS **NORMAL**

SAMPLE INTEGRITY: INTACT Y N

CHAIN-OF-CUSTODY FORM

No 13114

WORK ORDER #

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID#
 PROJECT NAME/FACILITY ID NERT
 PROJECT LOCATION Henderson, NV
 PROJECT NUMBER 2141400C, M03
 SAMPLER Amy Memon
 MSA # _____ FIELD PERSON# Amy Memon
 PROJECT MANAGER Ross Russell
 LABORATORY PTS
 SIGNATURE Amy Memon
 DATE 3/1/17
 YEAR 2017

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RIDB9-33.5-33.8	2/24/17	1610	33.5-33.8	/	S	1	U	NO	X	
PT-RIDB9-64.0-64.3	2/24/17	1616	64.0-64.3	/	I	1			X	
PT-RIDB9-65.0-65.3	2/24/17	1623	65.0-65.3	/	I	1			X	
PT-RIDB9-74.2-74.5	2/24/17	1631	74.2-74.5	/	I	1			X	
PT-RIDB9-82.1-82.4	2/24/17	1640	82.1-82.4	/	I	1			X	
PT-RIDB10-36.0-36.3	2/28/17	1242	36.0-36.3	/	I	1			X	
PT-RIDB10-61.5-61.8	2/28/17	1245	61.5-61.8	/	I	1			X	
PT-RIDB10-76.5-77.0	2/28/17	1253	76.5-77.0	/	I	1			X	
PT-RIDB16-86.5-87.0	2/28/17	1300	86.5-87.0	/	I	1			X	
PT-RIDB15-25.5-26.0	2/28/17	1311	25.5-26.0	/	I	1			X	
PT-RIDB13-63.0-63.5	2/28/17	1319	63.0-63.5	/	I	1			X	
PT-RIDB13-78.2-78.7	2/28/17	1326	78.2-78.7	/	I	1			X	
TOTAL					S	12	U	NO		

RELINQUISHED BY Amy Memon (To FedEx) TIME/DATE 1450 / 3/1/17 RECEIVED BY PTS LABS COMPANY PTS LABS TIME/DATE 3/2/17 1538 SAME DAY 72 HOURS
 RELINQUISHED BY _____ TIME/DATE _____ RECEIVED BY _____ COMPANY _____ TIME/DATE _____ TURNAROUND TIME (CIRCLE ONE) 24 HOURS 5 DAYS 48 HOURS NORMAL
 RELINQUISHED BY _____ TIME/DATE _____ RECEIVED BY _____ COMPANY _____ TIME/DATE _____ SAMPLE INTEGRITY INTACT Y N

CHAIN-OF-CUSTODY FORM

No 13115

WORK ORDER #

MSA #

IF YES, GLOBAL ID#

YES NO

UST PROJECT OR IS EDF REQUIRED?

PROJECT NAME/FACILITY ID: NERT FIELD PERSON# Amy Manton
 PROJECT LOCATION: Henderson, NV PROJECT MANAGER: Ross Russell
 PROJECT NUMBER: 2141400C, M03 LABORATORY: PTS
 SAMPLER: Amy Manton SIGNATURE: Amy Manton
 DATE: 3/1/17 YEAR: 2017

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-R1DB13-810-81.4	2/28/17	1332	810-81.4	-	S	1	U	NO	X	
PT-R1DB14-160-16.5	2/28/17	1340	160-16.5	-	-	1	-	-	X	
PT-R1DB14-73.6-74.1	2/28/17	1346	73.6-74.1	-	-	1	-	-	X	
PT-R1DB14-810-81.5	2/28/17	1352	810-81.5	-	-	1	-	-	X	
PT-M201-29.0-29.5	3/1/17	1208	29.0-29.5	-	-	1	-	-	X	
PT-M201-43.0-43.5	3/1/17	1214	43.0-43.5	-	-	1	-	-	X	
PT-M201-57.0-57.5	3/1/17	1220	57.0-57.5	-	-	1	-	-	X	
PT-M201-64.0-64.5	3/1/17	1228	64.0-64.5	-	-	1	-	-	X	
PT-M202-14.0-14.5	3/1/17	1233	14.0-14.5	-	S	1	U	NO	X	
TOTAL					S	9				

RECEIVED BY COMPANY: PTS RECEIVED BY COMPANY: PTS RECEIVED BY COMPANY: PTS

TIME/DATE: 1450 / 3/1/17 TIME/DATE: 3/2/17 1538 TIME/DATE: _____

SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS NORMAL

SAMPLE INTEGRITY: INTACT Y N TEMP _____



8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

August 18, 2017

Ross Russell
Ramboll Environ
220 Powell Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 47178
Physical Properties Data
NERT; 2141400C, MO3D

Dear Mr. Russell:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your NERT; 2141400C, MO3D project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,
PTS Laboratories, Inc.

Michael Mark Brady, P.G.
Laboratory Director

Encl.

Project Name: NERT
 Project Number: 2141400C, MO3D

PTS File No: 47178
 Client: Ramboll Environ

TEST PROGRAM - 20170424

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
Date Received: 20170330										
PT-RIDB-4-18.6-19.0	18.6-19.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-4-22.0-22.6	22.0-22.6	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-4-24.5-25.0	24.5-25.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-4-28.0-28.5	28.0-28.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-4-34.9-35.4	34.9-35.4	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB-4-44.0-44.4	44.0-44.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-4-55.4-55.9	55.4-55.9	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB-4-67.5-67.8	67.5-67.8	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-4-74.1-74.5	74.1-74.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB18-68.5-68.8	68.5-68.8	N/A	X	X(1)					X	Jar
PT-RIDB18-72.0-72.5	72.0-72.5	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB27-85.5-85.8	85.5-85.8	N/A	X	X(1)					X	Jar
PT-RIDB-20-15.5-16.0	15.5-16.0	N/A	X	X(1)					X	Ziploc bag
PT-RIDB-20-21.5-22.0	21.5-22.0	N/A	X	X(1)					X	Ziploc bag
PT-RIDB-20-35.9-36.3	35.9-36.3	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB-20-46.6-47.0	46.6-47.0	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB-20-53.7-54.1	53.7-54.1	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-20-60.9-61.4	60.9-61.4	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB-20-65.8-66.2	65.8-66.2	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB-20-82.9-83.2	82.9-83.2	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB-7-23.0-23.7	23.0-23.7	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-7-30.9-31.4	30.9-31.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-7-33.8-34.5	33.8-34.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-7-37.0-37.5	37.0-37.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-7-41.5-42.0	41.5-42.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-7-54.1-54.5	54.1-54.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB-7-66.1-66.7	66.1-66.7	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB-7-83.2-83.6	83.2-83.6	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-M-203-8.0-8.4	8.0-8.4	N/A	X	X(1)					X	Jar
PT-M-203-13.6-14.0	13.6-14.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M-203-18.0-18.4	18.0-18.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M-203-26.6-27.0	26.6-27.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M-203-31.2-31.6	31.2-31.6	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M-203-41.3-41.7	41.3-41.7	N/A	X	X	X	X	X		X	Foil wrapped core
PT-M-203-50.7-51.0	50.7-51.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB19-72.3-72.6	72.3-72.6	N/A	X	X(1)					X	Jar
PT-RIDB19-77.4-77.8	77.4-77.8	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB19-84.1-84.5	84.1-84.5	N/A	X	X	X	X	X	X	X	Foil wrapped core

Project Name: NERT
 Project Number: 2141400C, MO3D

PTS File No: 47178
 Client: Ramboll Environ

TEST PROGRAM - 20170424

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-RIDB12-17.5-17.8	17.5-17.8	N/A	X	X(1)					X	Jar
PT-RIDB12-28.0-28.5	28.0-28.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB12-33.6-34.0	33.6-34.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB12-68.6-69.0	68.6-69.0	N/A	X	X(1)					X	Jar
PT-RIDB12-71.0-71.3	71.0-71.3	N/A	X	X(1)					X	Jar
PT-RIDB12-74.5-75.0	74.5-75.0	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB12-84.5-85.0	84.5-85.0	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB28-16.2-16.5	16.2-16.5	N/A	X	X(1)					X	Jar
PT-RIDB28-37.2-37.5	37.2-37.5	N/A	X	X(1)					X	Jar
PT-RIDB28-39.1-39.5	39.1-39.5	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB28-68.5-69.0	68.5-69.0	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB28-85.5-85.8	85.5-85.8	N/A	X	X(1)					X	Jar
PT-RIDB28-88.7-89.0	88.7-89.0	N/A	X	X(1)					X	Jar
PT-M220-62.0-62.4	62.0-62.4	N/A	X	X	X	X	X		X	Foil wrapped core
PT-RIDB22-14.0-14.3	14.0-14.3	N/A	X	X(1)					X	Jar
PT-RIDB22-18.2-18.5	18.2-18.5	N/A	X	X(1)					X	Jar
PT-RIDB22-42.9-43.3	42.9-43.3	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB22-71.6-72.0	71.6-72.0	N/A	X	X	X	X	X	X	X	Foil wrapped core
PT-RIDB22-87.7-88.0	87.7-88.0	N/A	X	X					X	Jar
TOTALS:		0.00	57	49	41	41	41	16	57	57

Laboratory Test Program Notes

Contaminant identification: perchlorate, metals, VOCs

Standard TAT for basic analysis is 10-15 business days.

Grain Size Analysis: Combined laser/sieve method; includes tabular data, graphics and statistical sorting in Excel format.

Effective Porosity: Includes Total Porosity.

USCS Soil Classification by ASTM D2487 requires Atterberg Limits and Grain Size Analysis (included as part of Test Program).

Note (1): Laboratory to verify Atterberg Limits are required to classify fine fraction per Ramboll Environ Physical Testing Requests. Nine (9) of the flagged samples required ABL to classify fine fraction.

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

PHYSICAL TESTING REQUEST - Borings RIDB-4, RIDB-7

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Date: April 17, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Project No.: 21-41400C, Phase M03D

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RIDB-4	18.6 - 19.0	PT-RIDB-4-18.6-19.0	wrapped core	X	X	X	X	X				X
RIDB-4	22.0 - 22.6	PT-RIDB-4-22.0-22.6	wrapped core	X	X	X	X	X				X
RIDB-4	24.5 - 25.0	PT-RIDB-4-24.5-25.0	wrapped core	X	X	X	X	X				X
RIDB-4	28.0 - 28.5	PT-RIDB-4-28.0-28.5	wrapped core	X	X	X	X	X				X
RIDB-4	34.9 - 35.4	PT-RIDB-4-34.9-35.4	wrapped core	X	X	X	X	X	V	30	5	X
RIDB-4	44.0 - 44.4	PT-RIDB-4-44.0-44.5	wrapped core	X	X	X	X	X				X
RIDB-4	55.4 - 55.9	PT-RIDB-4-55.4-55.9	wrapped core	X	X	X	X	X	V	30	25.5	X
RIDB-4	67.5 - 67.8	PT-RIDB-4-67.5-67.8	wrapped core	X	X	X	X	X				X
RIDB-4	74.1 - 74.5	PT-RIDB-4-74.1-74.5	wrapped core	X	X	X	X	X				X
RIDB-7	23.0 - 23.7	PT-RIDB-7-23.0-23.7	wrapped core	X	X	X	X	X				X
RIDB-7	30.9 - 31.4	PT-RIDB-7-30.9-31.4	wrapped core	X	X	X	X	X				X
RIDB-7	33.8 - 34.5	PT-RIDB-7-33.8-34.5	wrapped core	X	X	X	X	X				X
RIDB-7	37.0 - 37.5	PT-RIDB-7-37.0-37.5	wrapped core	X	X	X	X	X				X
RIDB-7	41.5 - 42.0	PT-RIDB-7-41.5-42.0	wrapped core	X	X	X	X	X				X
RIDB-7	54.1 - 54.5	PT-RIDB-7-54.1-54.6	wrapped core	X	X	X	X	X				X
RIDB-7	66.1 - 66.7	PT-RIDB-7-66.1-66.7	wrapped core	X	X	X	X	X	V	34	32.5	X
RIDB-7	83.2 - 83.6	PT-RIDB-7-83.2-83.6	wrapped core	X	X	X	X	X	V	34	49.5	X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).
- (3) Positive field PID readings were observed in a soil core sample from boring RIDB-7 (PT-RIDB-7-66.1-66.7).

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

**PHYSICAL TESTING REQUEST - Borings RIDB-12,
 RIDB-18, RIDB-19, RIDB-27**

Date: April 17, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RIDB-12	17.5 - 17.8	PT-RIDB-12-17.5-17.8	Glass jar	X	X (1)							X
RIDB-12	28.0 - 28.5	PT-RIDB-12-28.0-28.5	wrapped core	X	X	X	X	X				X
RIDB-12	33.6 - 34.0	PT-RIDB-12-33.6-34.0	wrapped core	X	X	X	X	X				X
RIDB-12	68.6 - 69.0	PT-RIDB-12-68.6-69.0	Glass jar	X	X (1)							X
RIDB-12	71.0 - 71.3	PT-RIDB-12-71.0-71.3	Glass jar	X	X (1)							X
RIDB-12	74.5 - 75.0	PT-RIDB-12-74.5-75.0	wrapped core	X	X	X	X	X	V	28	46.5	X
RIDB-12	84.5 - 85.0	PT-RIDB-12-84.5-85.0	wrapped core	X	X	X	X	X	V	28	56.5	X
RIDB-18	68.5 - 68.8	PT-RIDB-18-68.5-68.8	Glass jar	X	X (1)							X
RIDB-18	72.0 - 72.5	PT-RIDB-18-72.0-72.5	wrapped core	X	X	X	X	X	V	34	38	X
RIDB-19	72.3 - 72.6	PT-RIDB-19-72.3-72.6	Glass jar	X	X (1)							X
RIDB-19	77.4 - 77.8	PT-RIDB-19-77.4-77.8	wrapped core	X	X	X	X	X	V	32	45.5	X
RIDB-19	84.1 - 84.5	PT-RIDB-19-84.1-84.5	wrapped core	X	X	X	X	X	V	32	52.1	X
RIDB-27	85.5 - 85.8	PT-RIDB-27-85.5-85.8	Glass jar	X	X (1)							X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

**PHYSICAL TESTING REQUEST - Borings RIDB-20,
 RIDB-28**

Date: April 17, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RIDB-20	15.5 - 16.0	PT-RIDB-20-15.5-16.0	Ziplock bag	X	X (1)							X
RIDB-20	21.5 - 22.0	PT-RIDB-20-21.5-22.0	Ziplock bag	X	X (1)							X
RIDB-20	35.9 - 36.3	PT-RIDB-20-35.9-36.3	wrapped core	X	X	X	X	X	V	29	7	X
RIDB-20	46.6 - 47.0	PT-RIDB-20-46.6-47.0	wrapped core	X	X	X	X	X	V	29	18	X
RIDB-20	53.7 - 54.1	PT-RIDB-20-53.7-54.1	wrapped core	X	X	X	X	X				X
RIDB-20	60.9 - 61.4	PT-RIDB-20-60.9-61.4	wrapped core	X	X	X	X	X	V	29	32	X
RIDB-20	65.8 - 66.2	PT-RIDB-20-65.8-66.2	wrapped core	X	X	X	X	X	V	29	37	X
RIDB-20	82.9 - 83.2	PT-RIDB-20-82.9-83.2	wrapped core	X	X	X	X	X	V	29	54	X
RIDB-28	16.2 - 16.5	PT-RIDB-28-16.2-16.5	Glass jar	X	X (1)							X
RIDB-28	37.2 - 37.5	PT-RIDB-28-37.2-37.5	Glass jar	X	X (1)							X
RIDB-28	39.1 - 39.5	PT-RIDB-28-39.1-39.5	wrapped core	X	X	X	X	X				X
RIDB-28	68.5 - 69.0	PT-RIDB-28-68.5-69.0	wrapped core	X	X	X	X	X				X
RIDB-28	85.5 - 85.8	PT-RIDB-28-85.5-85.8	Glass jar	X	X (1)							X
RIDB-28	88.7 - 89.0	PT-RIDB-28-88.7-89.0	Glass jar	X	X (1)							X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

**PHYSICAL TESTING REQUEST - Borings RIDB-22,
 M-203, M-220**

Date: April 17, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RIDB-22	14.0 - 14.3	PT-RIDB-22-14.0-14.3	Glass jar	X	X (1)							X
RIDB-22	18.2 - 18.5	PT-RIDB-22-18.2-18.5	Glass jar	X	X (1)							X
RIDB-22	42.9 - 43.3	PT-RIDB-22-42.9-43.3	wrapped core	X	X	X	X	X	V	34	9	X
RIDB-22	71.6 - 72.0	PT-RIDB-22-71.6-72.0	wrapped core	X	X	X	X	X	V	34	38	X
RIDB-22	87.7 - 88.0	PT-RIDB-22-87.7-88.0	Glass jar	X	X							X
M-203	8.0 - 8.4	PT-M-203-8.0-8.4	Glass jar	X	X (1)							X
M-203	13.6 - 14.0	PT-M-203-13.6-14.0	wrapped core	X	X	X	X	X				X
M-203	18.0 - 18.4	PT-M-203-18.0-18.4	wrapped core	X	X	X	X	X				X
M-203	26.6 - 27.0	PT-M-203-26.6-27.0	wrapped core	X	X	X	X	X				X
M-203	31.2 - 31.6	PT-M-203-31.2-31.6	wrapped core	X	X	X	X	X				X
M-203	41.3 - 41.7	PT-M-203-41.3-41.7	wrapped core	X	X	X	X	X				X
M-203	50.7 - 51.0	PT-M-203-50.7-51.0	wrapped core	X	X	X	X	X				X
M-220	62.0 - 62.4	PT-M-220-62.0-62.4	wrapped core	X	X	X	X	X				X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS: ANALYSIS DATE	API RP 40 /	API RP40	Mod. ASTM D425	Mod. ASTM D425
				ASTM D2216	DENSITY BULK, g/cc	TOTAL POROSITY (2), %Vb	EFFECTIVE POROSITY, %Vb
				MOISTURE CONTENT, % weight			
PT-RIDB-4-18.6-19.0	18.7	V	20170522	32.5	1.05	63.3	20.0
PT-RIDB-4-22.0-22.6	22.5	V	20170522	47.5	0.79	69.0	26.7
PT-RIDB-4-24.5-25.0	24.6	V	20170522	67.1	0.78	71.1	20.0
PT-RIDB-4-28.0-28.5	28.1	V	20170522	38.4	1.08	59.2	18.2
PT-RIDB-4-34.9-35.4	35.0	V	20170522	31.4	1.11	61.9	17.8
PT-RIDB-4-44.0-44.4	44.1	V	20170522	40.1	1.16	62.2	12.4
PT-RIDB-4-55.4-55.9	55.5	V	20170522	17.2	1.40	50.1	14.0
PT-RIDB-4-67.5-67.8	67.6	V	20170522	42.6	0.93	70.6	17.7
PT-RIDB-4-74.1-74.5	74.2	V	20170523	56.8	0.97	65.2	10.5
PT-RIDB18-72.0-72.5	72.1	V	20170523	62.2	0.81	71.5	17.4
PT-RIDB-20-35.9-36.3	36.0	V	20170523	34.2	1.25	57.2	11.5
PT-RIDB-20-46.6-47.0	46.7	V	20170523	49.1	0.81	67.6	25.4
PT-RIDB-20-53.7-54.1	53.8	V	20170523	155.5	0.43	86.3	29.2
PT-RIDB-20-60.9-61.4	61.0	V	20170523	22.4	1.18	57.5	19.6
PT-RIDB-20-65.8-66.2	65.9	V	20170523	71.2	0.74	75.1	20.2
PT-RIDB-20-82.9-83.2	83.0	V	20170523	48.9	0.87	69.4	23.9
PT-RIDB-7-23.0-23.7	23.6	V	20170526	65.4	0.84	67.9	15.9
PT-RIDB-7-30.9-31.4	31.3	V	20170526	50.5	0.83	66.6	27.6
PT-RIDB-7-33.8-34.5	34.4	V	20170526	88.2	0.70	73.7	22.5
PT-RIDB-7-37.0-37.5	37.4	V	20170526	49.8	0.95	61.5	25.5
PT-RIDB-7-41.5-42.0	41.9	V	20170526	29.3	1.24	49.4	14.3
PT-RIDB-7-54.1-54.5	54.4	V	20170526	38.2	1.17	53.6	9.9
PT-RIDB-7-66.1-66.7	66.6	V	20170526	25.6	1.47	42.1	17.8
PT-RIDB-7-83.2-83.6	83.5	V	20170526	40.7	1.07	62.5	9.9
PT-M-203-13.6-14.0	13.9	V	20170530	50.9	1.01	58.3	19.3
PT-M-203-18.0-18.4	18.1	V	20170530	87.3	0.60	76.6	26.1
PT-M-203-26.6-27.0	26.7	V	20170530	112.3	0.54	79.7	30.6
PT-M-203-31.2-31.6	31.3	V	20170530	40.9	1.16	56.6	13.9
PT-M-203-41.3-41.7	41.4	V	20170530	75.0	0.78	66.4	17.5
PT-M-203-50.7-51.0	50.8	V	20170530	54.5	0.91	62.0	15.9
PT-RIDB19-77.4-77.8	77.5	V	20170530	60.2	0.84	68.1	27.8
PT-RIDB19-84.1-84.5	84.2	V	20170530	49.6	0.94	62.5	25.8
PT-RIDB12-28.0-28.5	28.1	V	20170531	38.2	0.94	68.0	21.1
PT-RIDB12-33.6-34.0	33.9	V	20170531	37.7	1.02	62.7	22.4
PT-RIDB12-74.5-75.0	74.9	V	20170531	50.3	0.93	65.9	21.0
PT-RIDB12-84.5-85.0	84.6	V	20170531	30.7	1.44	48.5	8.5
PT-RIDB28-39.1-39.5	39.2	V	20170531	50.5	0.96	63.5	18.3
PT-RIDB28-68.5-69.0	68.6	V	20170531	34.7	1.20	63.1	19.6
PT-M220-62.0-62.4	62.1	V	20170531	53.9	1.01	64.3	17.6
PT-RIDB22-42.9-43.3	43.0	V	20170531	32.8	1.18	59.1	17.3
PT-RIDB22-71.6-72.0	71.7	V	20170526	52.7	1.04	64.7	8.9

(1) Sample Orientation: H = horizontal; V = vertical; R = remold

(2) Total Porosity = all interconnected pore channels.

Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY

(Methodology: API RP 40; EPA 9100)

Project Name: NERT
 Project No: 2141400C, MO3D4

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	CONFINING STRESS, psi	25 PSI CONFINING STRESS		
					EFFECTIVE PERMEABILITY TO WATER (2,3), millidarcy	HYDRAULIC CONDUCTIVITY (3) cm/s	INTRINSIC PERMEABILITY TO WATER (3), cm ²
PT-RIDB-4-34.9-35.4	35.2	V	20170522	27	0.80	8.13E-07	7.94E-12
PT-RIDB-4-55.4-55.9	55.7	V	20170522	35	0.27	2.73E-07	2.69E-12
PT-RIDB18-72.0-72.5	72.35	V	20170523	44	0.66	6.73E-07	6.53E-12
PT-RIDB-20-35.9-36.3	36.2	V	20170523	27	0.56	5.65E-07	5.50E-12
PT-RIDB-20-46.6-47.0	46.9	V	20170524	31	11.6	1.16E-05	1.14E-10
PT-RIDB-20-60.9-61.4	61.2	V	20170524	37	0.21	2.10E-07	2.06E-12
PT-RIDB-20-65.8-66.2	66.1	V	20170525	39	0.68	6.76E-07	6.66E-12
PT-RIDB-20-82.9-83.2	83.1	V	20170525	46	1.02	1.02E-06	1.01E-11
PT-RIDB-7-66.1-66.7	66.5	V	20170526	41	6.85	6.91E-06	6.76E-11
PT-RIDB-7-83.2-83.6	83.5	V	20170526	48	0.08	8.33E-08	8.14E-13
PT-RIDB19-77.4-77.8	77.5	V	20170530	45	12.2	1.23E-05	1.21E-10
PT-RIDB19-84.1-84.5	84.2	V	20170530	48	5.66	5.66E-06	5.59E-11
PT-RIDB12-74.5-75.0	74.6	V	20170530	42	6.56	6.62E-06	6.48E-11
PT-RIDB12-84.5-85.0	84.8	V	20170530	46	0.21	2.08E-07	2.05E-12
PT-RIDB22-42.9-43.3	43.2	V	20170531	32	0.30	3.01E-07	2.96E-12
PT-RIDB22-71.6-72.0	71.9	V	20170531	44	0.28	2.79E-07	2.74E-12

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Effective (Native) = With as-received pore fluids in place.
 (3) Permeability to water and hydraulic conductivity measured at saturated conditions.
 Water = filtered Laboratory Fresh (tap) or Site water.

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3B

SAMPLE ID.	DEPTH, ft.	METHODS:		ASTM D4318			ASTM D4318	ASTM D2487
		ANALYSIS DATE	ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-RIDB-4-18.6-19.0	18.6-18.8	20170519	56.4	41.4	15.0	MH	SM: Silty sand	
PT-RIDB-4-22.0-22.6	22.4-22.6	20170519	79.8	49.1	30.7	MH	MH: Sandy elastic silt	
PT-RIDB-4-24.5-25.0	24.5-24.7	20170519	103.4	52.4	51.0	MH	MH: Sandy elastic silt	
PT-RIDB-4-28.0-28.5	28.0-28.2	20170519	75.6	30.8	44.8	CH	CH: Clayey sand	
PT-RIDB-4-34.9-35.4	34.9-35.2	20170519	64.4	37.7	26.7	MH	MH: Elastic silt	
PT-RIDB-4-44.0-44.4	44.0-44.2	20170523	76.1	25.7	50.4	CH	CH: Fat clay	
PT-RIDB-4-55.4-55.9	55.4-55.6	20170523	43.3	19.7	23.6	CL	CL: Lean clay with sand	
PT-RIDB-4-67.5-67.8	67.4-67.7	20170524	150.2	35.7	114.5	CH	CH: Sandy fat clay	
PT-RIDB-4-74.1-74.5	74.1-74.3	20170525	140.7	37.5	103.2	CH	CH: Fat clay	
PT-RIDB18-68.5-68.8	68.5-68.8	20170706	25.2	NON-PLASTIC		NP	ML: Sandy silt	
PT-RIDB18-72.0-72.5	72.0-72.4	20170525	98.6	40.1	58.5	CH	CH: Fat clay with sand	
PT-RIDB27-85.5-85.8	85.5-85.8	20170706	28.0	NON-PLASTIC		NP	ML: Sandy silt	
PT-RIDB-20-15.5-16.0	15.5-16.0	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SW-SM: Well-graded sand with silt & gravel	
PT-RIDB-20-21.5-22.0	21.5-22.0	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel	
PT-RIDB-20-35.9-36.3	36.0-36.2	20170526	54.0	25.2	28.8	CH	CH: Fat clay	
PT-RIDB-20-46.6-47.0	46.7-46.9	20170526	74.2	47.0	27.2	MH	MH: Sandy elastic silt	
PT-RIDB-20-53.7-54.1	53.8-54.0	20170526	199.9	75.8	124.1	CH	CH: Fat clay with sand	
PT-RIDB-20-60.9-61.4	61.0-61.2	20170530	78.9	21.2	57.7	CH	SC: Clayey sand	
PT-RIDB-20-65.8-66.2	65.9-66.1	20170530	155.2	61.7	93.5	MH	MH: Sandy elastic silt	
PT-RIDB-20-82.9-83.2	83.0-83.2	20170530	101.8	43.4	58.4	MH	SM: Silty sand	
PT-RIDB-7-23.0-23.7	23.6	20170531	88.6	50.0	38.6	MH	MH: Elastic silt	
PT-RIDB-7-30.9-31.4	31.3	20170531	79.3	41.2	38.1	MH	MH: Sandy elastic silt	
PT-RIDB-7-33.8-34.5	34.4	20170531	111.3	58.8	52.5	MH	MH: Elastic silt with sand	
PT-RIDB-7-37.0-37.5	37.4	20170531	71.2	36.3	34.9	MH	SM: Silty sand	
PT-RIDB-7-41.5-42.0	41.9	20170531	45.5	24.5	21.0	CL	CL: Lean clay	

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.
 USCS: Unified Soil Classification System

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3B

SAMPLE ID.	DEPTH, ft.	METHODS:		ASTM D4318			ASTM D4318	ASTM D2487
		ANALYSIS DATE	ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-RIDB-7-54.1-54.5	54.4	20170531	68.7	44.6	24.1	CH	CH: Fat clay with sand	
PT-RIDB-7-66.1-66.7	66.6	20170531	37.4	22.5	14.9	CL	SC: Clayey sand	
PT-RIDB-7-83.2-83.6	83.5	20170531	127.0	96.4	30.6	CH	CH: Sandy fat clay	
PT-M-203-8.0-8.4	8.0-8.4	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand	
PT-M-203-13.6-14.0	13.9	20170531	63.2	35.9	27.3	MH	MH: Sandy elastic silt	
PT-M-203-18.0-18.4	18.0-18.2	20170601	112.0	58.8	53.2	MH	MH: Elastic silt with sand	
PT-M-203-26.6-27.0	26.6-26.8	20170531	149.7	61.9	87.8	MH	MH: Sandy elastic silt with gravel	
PT-M-203-31.2-31.6	31.2-31.4	20170601	56.2	21.2	35.0	CH	CH: Fat clay with sand	
PT-M-203-41.3-41.7	41.3-41.5	20170531	98.4	47.2	51.2	MH	MH: Sandy elastic silt	
PT-M-203-50.7-51.0	50.7-50.9	20170601	136.2	39.4	96.8	CH	CH: Fat clay with sand	
PT-RIDB19-72.3-72.6	72.3-72.6	20170706	16.8	NON-PLASTIC		NP	ML: Sandy silt	
PT-RIDB19-77.4-77.8	77.4-77.6	20170531	47.4	28.5	18.9	ML	ML: Sandy silt	
PT-RIDB19-84.1-84.5	84.1-84.3	20170601	60.5	37.3	23.2	MH	MH: Sandy elastic silt	
PT-RIDB12-17.5-17.8	17.5-17.8	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel	
PT-RIDB12-28.0-28.5	28.0-28.3	20170531	73.1	46.6	26.5	MH	SM: Silty sand	
PT-RIDB12-33.6-34.0	33.9	20170601	53.5	32.9	20.6	MH	MH: Elastic silt with sand	
PT-RIDB12-68.6-69.0	68.6-69.0	20170710	27.2	NON-PLASTIC		NP	ML: Sandy silt	
PT-RIDB12-71.0-71.3	71.0-71.3	20170710	29.8	23.3	6.5	ML	ML: Sandy silt	
PT-RIDB12-74.5-75.0	74.9	20170531	86.4	35.1	51.3	CH	CH: Fat clay with sand	
PT-RIDB12-84.5-85.0	84.5-84.7	20170602	50.4	22.1	28.3	CH	CH: Fat clay with sand	
PT-RIDB28-16.2-16.5	16.2-16.5	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel	
PT-RIDB28-37.2-37.5	37.2-37.5	20170710	57.1	39.8	17.3	MH	MH: Sandy elastic silt	
PT-RIDB28-39.1-39.5	39.1-39.3	20170602	60.1	39.7	20.4	MH	MH: Sandy elastic silt	
PT-RIDB28-68.5-69.0	68.5-68.7	20170602	48.5	26.9	21.6	CL	CL: Lean clay	
PT-RIDB28-85.5-85.8	85.5-85.8	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand	

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.
 USCS: Unified Soil Classification System

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3B

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
PT-RIDB28-88.7-89.0	88.7-89.0	20170627	36.3	25.8	10.5	ML	ML: Sandy silt
PT-M220-62.0-62.4	62.0-62.2	20170602	67.8	38.4	29.4	MH	MH: Sandy elastic silt
PT-RIDB22-14.0-14.3	14.0-14.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand
PT-RIDB22-18.2-18.5	18.2-18.5	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SW-SM: Well-graded sand with silt & gravel
PT-RIDB22-42.9-43.3	42.9-43.0	20170603	53.7	23.2	30.5	CH	CH: Fat clay with sand
PT-RIDB22-71.6-72.0	71.6-71.8	20170603	149.4	27.6	121.8	CH	CH: Sandy fat clay
PT-RIDB22-87.7-88.0	87.7-88.0	20170603	83.8	22.7	61.1	CH	CH: Fat clay with sand

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.
 USCS: Unified Soil Classification System

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

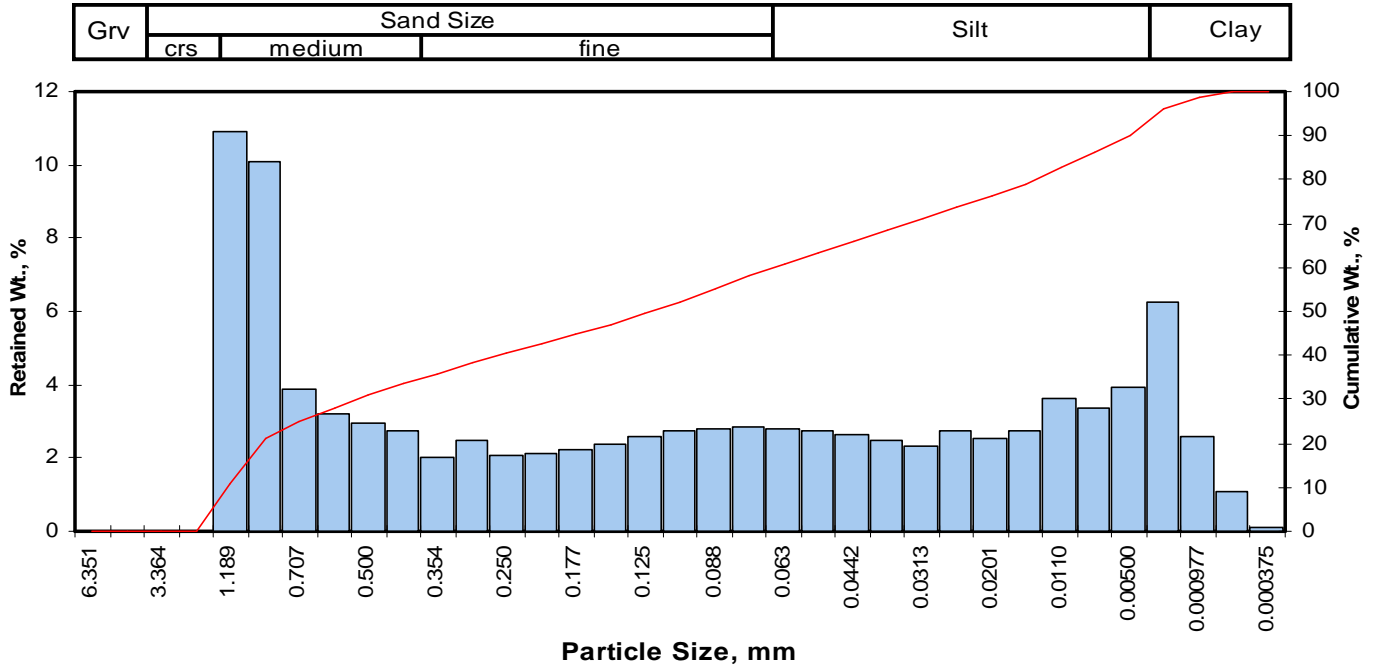
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3D

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RIDB-4-18.6-19.0	18.8-18.9	Fine sand	0.122	0.00	0.00	33.76	24.24	31.95	10.04	42.00
PT-RIDB-4-22.0-22.6	22.0-22.1	Fine sand	0.033	0.00	0.00	17.61	18.52	48.82	15.06	63.87
PT-RIDB-4-24.5-25.0	24.7-24.8	Fine sand	0.051	0.00	0.00	21.86	22.21	43.19	12.75	55.93
PT-RIDB-4-28.0-28.5	28.2-28.3	Medium sand	0.082	0.00	0.00	36.31	15.41	37.19	11.09	48.28
PT-RIDB-4-34.9-35.4	34.9-35.2	Silt	0.012	0.00	0.00	0.00	9.86	62.21	27.93	90.14
PT-RIDB-4-44.0-44.4	44.0-44.2	Silt	0.012	0.00	0.00	0.00	6.90	66.32	26.78	93.10
PT-RIDB-4-55.4-55.9	55.4-55.6	Silt	0.025	0.00	0.00	3.36	24.24	48.75	23.65	72.40
PT-RIDB-4-67.5-67.8	67.5-67.7	Medium sand	0.054	0.00	0.00	37.24	8.02	39.20	15.54	54.74
PT-RIDB-4-74.1-74.5	74.1-74.3	Silt	0.006	0.00	0.00	0.00	0.43	53.44	46.13	99.57
PT-RIDB18-68.5-68.8	68.5-68.8	Silt	0.058	0.00	0.00	0.00	39.95	49.18	10.87	60.05

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-18.6-19.0
Depth, ft: 18.8-18.9



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	10.90	10.89	10.89
0.0331	0.841	0.25	20	10.10	10.09	20.99
0.0278	0.707	0.50	25	3.90	3.90	24.89
0.0234	0.595	0.75	30	3.20	3.20	28.09
0.0197	0.500	1.00	35	2.94	2.94	31.02
0.0166	0.420	1.25	40	2.74	2.74	33.76
0.0139	0.354	1.50	45	2.04	2.04	35.80
0.0117	0.297	1.75	50	2.50	2.50	38.30
0.0098	0.250	2.00	60	2.05	2.05	40.35
0.0083	0.210	2.25	70	2.11	2.11	42.46
0.0070	0.177	2.50	80	2.22	2.22	44.68
0.0059	0.149	2.75	100	2.38	2.38	47.06
0.0049	0.125	3.00	120	2.58	2.58	49.64
0.0041	0.105	3.25	140	2.73	2.73	52.36
0.0035	0.088	3.50	170	2.81	2.81	55.17
0.0029	0.074	3.75	200	2.83	2.83	58.00
0.0025	0.063	4.00	230	2.80	2.80	60.80
0.0021	0.053	4.25	270	2.73	2.73	63.53
0.00174	0.0442	4.50	325	2.63	2.63	66.16
0.00146	0.0372	4.75	400	2.50	2.50	68.66
0.00123	0.0313	5.00	450	2.35	2.35	71.00
0.000986	0.0250	5.32	500	2.76	2.76	73.76
0.000790	0.0201	5.64	635	2.56	2.56	76.32
0.000615	0.0156	6.00		2.72	2.72	79.04
0.000435	0.0110	6.50		3.62	3.62	82.66
0.000308	0.00781	7.00		3.38	3.38	86.04
0.000197	0.00500	7.65		3.92	3.92	89.96
0.000077	0.00195	9.00		6.28	6.28	96.23
0.000038	0.000977	10.00		2.57	2.57	98.80
0.000019	0.000488	11.00		1.10	1.10	99.90
0.000015	0.000375	11.38		0.10	0.10	100.00
TOTALS				100.10	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.66	0.0620	1.575
10	-0.31	0.0489	1.241
16	0.00	0.0393	0.998
25	0.51	0.0277	0.703
40	1.96	0.0101	0.258
50	3.03	0.0048	0.122
60	3.93	0.0026	0.066
75	5.47	0.0009	0.022
84	6.70	0.0004	0.010
90	7.65	0.0002	0.005
95	8.73	0.0001	0.002

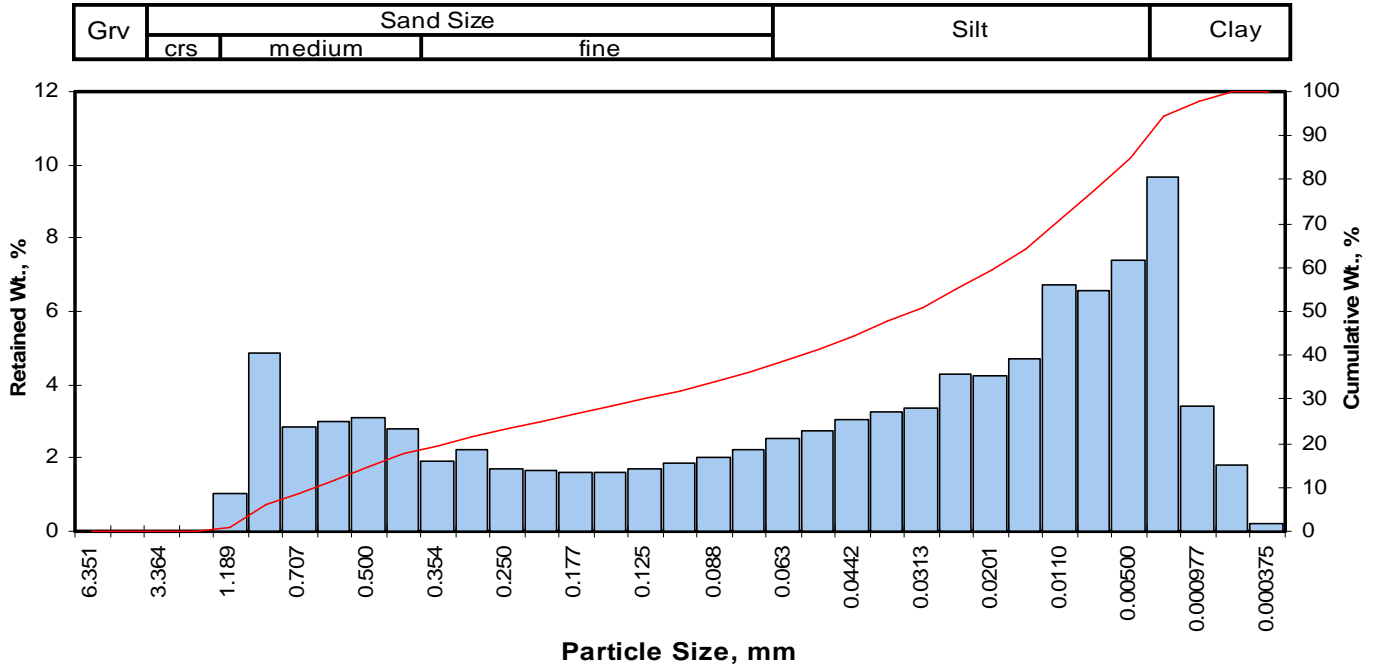
Measure	Trask	Inman	Folk-Ward
Median, phi	3.03	3.03	3.03
Median, in.	0.0048	0.0048	0.0048
Median, mm	0.122	0.122	0.122
Mean, phi	1.46	3.35	3.24
Mean, in.	0.0143	0.0039	0.0042
Mean, mm	0.363	0.098	0.105
Sorting	5.590	3.348	3.097
Skewness	1.029	0.095	0.154
Kurtosis	0.275	0.402	0.775

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	33.76
Fine Sand	200	24.24
Silt	>0.005 mm	31.95
Clay	<0.005 mm	10.04
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-22.0-22.6
Depth, ft: 22.0-22.1



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.03	1.03	1.03
0.0331	0.841	0.25	20	4.86	4.86	5.89
0.0278	0.707	0.50	25	2.83	2.83	8.72
0.0234	0.595	0.75	30	3.02	3.02	11.74
0.0197	0.500	1.00	35	3.09	3.09	14.83
0.0166	0.420	1.25	40	2.78	2.78	17.61
0.0139	0.354	1.50	45	1.93	1.93	19.54
0.0117	0.297	1.75	50	2.21	2.21	21.75
0.0098	0.250	2.00	60	1.71	1.71	23.46
0.0083	0.210	2.25	70	1.64	1.64	25.10
0.0070	0.177	2.50	80	1.58	1.58	26.68
0.0059	0.149	2.75	100	1.60	1.60	28.28
0.0049	0.125	3.00	120	1.72	1.72	30.00
0.0041	0.105	3.25	140	1.86	1.86	31.86
0.0035	0.088	3.50	170	2.03	2.03	33.89
0.0029	0.074	3.75	200	2.24	2.24	36.13
0.0025	0.063	4.00	230	2.51	2.51	38.64
0.0021	0.053	4.25	270	2.76	2.76	41.40
0.00174	0.0442	4.50	325	3.04	3.04	44.44
0.00146	0.0372	4.75	400	3.24	3.24	47.68
0.00123	0.0313	5.00	450	3.36	3.36	51.03
0.000986	0.0250	5.32	500	4.31	4.31	55.34
0.000790	0.0201	5.64	635	4.26	4.26	59.60
0.000615	0.0156	6.00		4.71	4.71	64.31
0.000435	0.0110	6.50		6.70	6.70	71.01
0.000308	0.00781	7.00		6.55	6.55	77.56
0.000197	0.00500	7.65		7.38	7.38	84.94
0.000077	0.00195	9.00		9.65	9.65	94.59
0.000038	0.000977	10.00		3.40	3.40	97.99
0.000019	0.000488	11.00		1.82	1.82	99.81
0.000015	0.000375	11.38		0.19	0.19	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.16	0.0353	0.896
10	0.61	0.0259	0.657
16	1.11	0.0183	0.465
25	2.24	0.0084	0.212
40	4.12	0.0023	0.057
50	4.92	0.0013	0.033
60	5.67	0.0008	0.020
75	6.80	0.0004	0.009
84	7.56	0.0002	0.005
90	8.36	0.0001	0.003
95	9.12	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.92	4.92	4.92
Median, in.	0.0013	0.0013	0.0013
Median, mm	0.033	0.033	0.033
Mean, phi	3.18	4.33	4.53
Mean, in.	0.0044	0.0020	0.0017
Mean, mm	0.111	0.050	0.043
Sorting	4.872	3.229	2.972
Skewness	1.322	-0.182	-0.123
Kurtosis	0.156	0.388	0.804

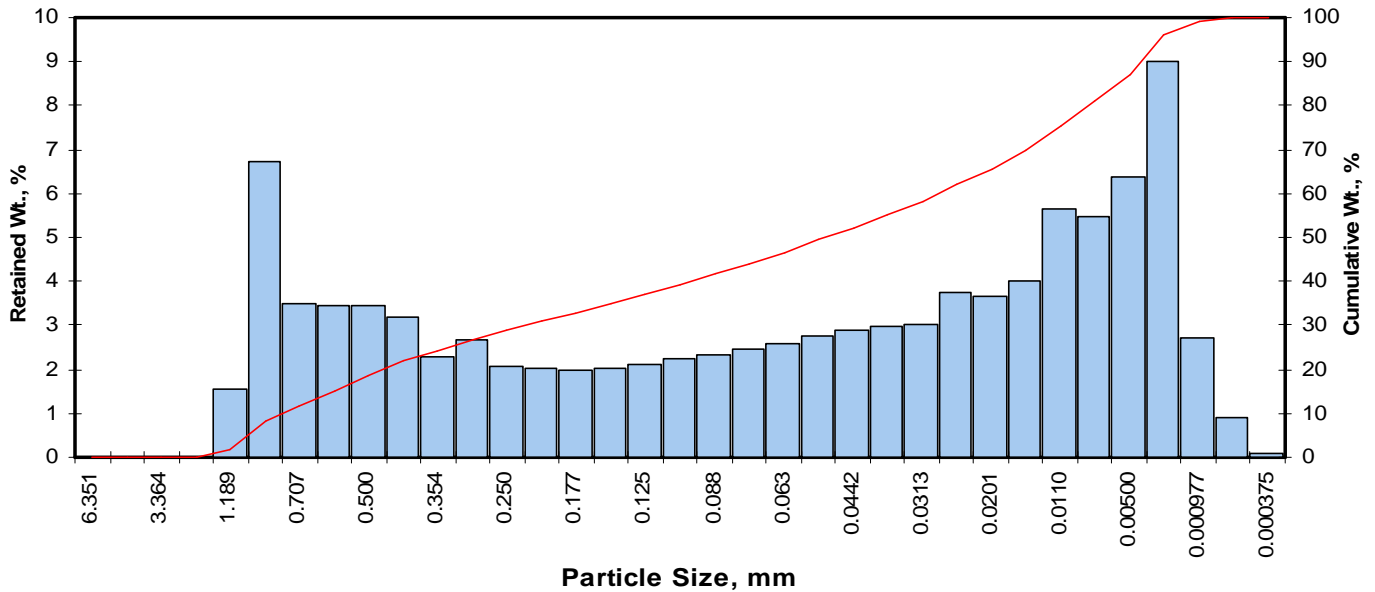
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	17.61
Fine Sand	200	18.52
Silt	>0.005 mm	48.82
Clay	<0.005 mm	15.06
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-24.5-25.0
Depth, ft: 24.7-24.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.53	1.53	1.53
0.0331	0.841	0.25	20	6.74	6.74	8.27
0.0278	0.707	0.50	25	3.51	3.51	11.78
0.0234	0.595	0.75	30	3.46	3.46	15.25
0.0197	0.500	1.00	35	3.44	3.44	18.69
0.0166	0.420	1.25	40	3.17	3.17	21.86
0.0139	0.354	1.50	45	2.29	2.29	24.15
0.0117	0.297	1.75	50	2.68	2.68	26.83
0.0098	0.250	2.00	60	2.08	2.08	28.91
0.0083	0.210	2.25	70	2.02	2.02	30.93
0.0070	0.177	2.50	80	1.99	1.99	32.92
0.0059	0.149	2.75	100	2.02	2.02	34.94
0.0049	0.125	3.00	120	2.11	2.11	37.05
0.0041	0.105	3.25	140	2.23	2.23	39.29
0.0035	0.088	3.50	170	2.33	2.33	41.62
0.0029	0.074	3.75	200	2.45	2.45	44.07
0.0025	0.063	4.00	230	2.60	2.60	46.67
0.0021	0.053	4.25	270	2.75	2.75	49.42
0.00174	0.0442	4.50	325	2.90	2.90	52.32
0.00146	0.0372	4.75	400	2.98	2.98	55.30
0.00123	0.0313	5.00	450	3.00	3.00	58.30
0.000986	0.0250	5.32	500	3.75	3.75	62.05
0.000790	0.0201	5.64	635	3.66	3.66	65.72
0.000615	0.0156	6.00		4.02	4.02	69.74
0.000435	0.0110	6.50		5.63	5.63	75.37
0.000308	0.00781	7.00		5.49	5.49	80.86
0.000197	0.00500	7.65		6.39	6.39	87.25
0.000077	0.00195	9.00		9.02	9.02	96.28
0.000038	0.000977	10.00		2.72	2.72	99.00
0.000019	0.000488	11.00		0.92	0.92	99.92
0.000015	0.000375	11.38		0.08	0.08	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.01	0.0392	0.995
10	0.37	0.0304	0.772
16	0.80	0.0225	0.572
25	1.58	0.0132	0.335
40	3.33	0.0039	0.100
50	4.30	0.0020	0.051
60	5.14	0.0011	0.028
75	6.47	0.0004	0.011
84	7.32	0.0002	0.006
90	8.06	0.0001	0.004
95	8.81	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.30	4.30	4.30
Median, in.	0.0020	0.0020	0.0020
Median, mm	0.051	0.051	0.051
Mean, phi	2.53	4.06	4.14
Mean, in.	0.0068	0.0024	0.0022
Mean, mm	0.173	0.060	0.057
Sorting	5.441	3.256	2.961
Skewness	1.211	-0.074	-0.025
Kurtosis	0.210	0.352	0.738

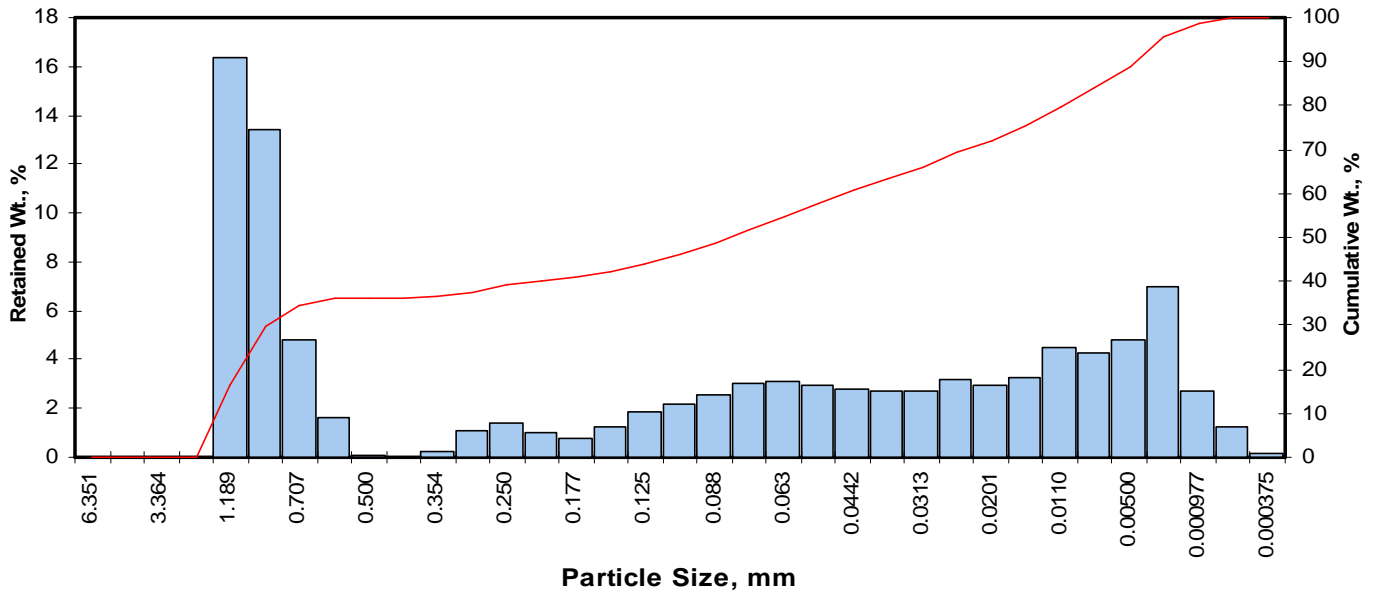
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	21.86
Fine Sand	200	22.21
Silt	>0.005 mm	43.19
Clay	<0.005 mm	12.75
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-28.0-28.5
Depth, ft: 28.2-28.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	16.40	16.40	16.40
0.0331	0.841	0.25	20	13.40	13.40	29.80
0.0278	0.707	0.50	25	4.80	4.80	34.60
0.0234	0.595	0.75	30	1.60	1.60	36.20
0.0197	0.500	1.00	35	0.10	0.10	36.30
0.0166	0.420	1.25	40	0.02	0.02	36.31
0.0139	0.354	1.50	45	0.20	0.20	36.51
0.0117	0.297	1.75	50	1.12	1.12	37.63
0.0098	0.250	2.00	60	1.40	1.40	39.03
0.0083	0.210	2.25	70	1.01	1.01	40.04
0.0070	0.177	2.50	80	0.78	0.78	40.82
0.0059	0.149	2.75	100	1.26	1.26	42.08
0.0049	0.125	3.00	120	1.86	1.86	43.94
0.0041	0.105	3.25	140	2.19	2.19	46.13
0.0035	0.088	3.50	170	2.58	2.58	48.71
0.0029	0.074	3.75	200	3.01	3.01	51.72
0.0025	0.063	4.00	230	3.14	3.14	54.86
0.0021	0.053	4.25	270	2.94	2.94	57.80
0.00174	0.0442	4.50	325	2.77	2.77	60.57
0.00146	0.0372	4.75	400	2.73	2.73	63.30
0.00123	0.0313	5.00	450	2.69	2.69	65.99
0.000986	0.0250	5.32	500	3.19	3.19	69.18
0.000790	0.0201	5.64	635	2.96	2.96	72.14
0.000615	0.0156	6.00		3.24	3.24	75.38
0.000435	0.0110	6.50		4.50	4.50	79.88
0.000308	0.00781	7.00		4.25	4.25	84.13
0.000197	0.00500	7.65		4.78	4.78	88.91
0.000077	0.00195	9.00		6.95	6.95	95.86
0.000038	0.000977	10.00		2.73	2.73	98.59
0.000019	0.000488	11.00		1.28	1.28	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.77	0.0672	1.707
10	-0.54	0.0573	1.457
16	-0.27	0.0474	1.204
25	0.07	0.0375	0.952
40	2.24	0.0083	0.212
50	3.61	0.0032	0.082
60	4.45	0.0018	0.046
75	5.96	0.0006	0.016
84	6.98	0.0003	0.008
90	7.86	0.0002	0.004
95	8.83	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	3.61	3.61	3.61
Median, in.	0.0032	0.0032	0.0032
Median, mm	0.082	0.082	0.082
Mean, phi	1.05	3.36	3.44
Mean, in.	0.0191	0.0038	0.0036
Mean, mm	0.484	0.098	0.092
Sorting	7.692	3.626	3.268
Skewness	1.508	-0.069	0.010
Kurtosis	0.322	0.324	0.669

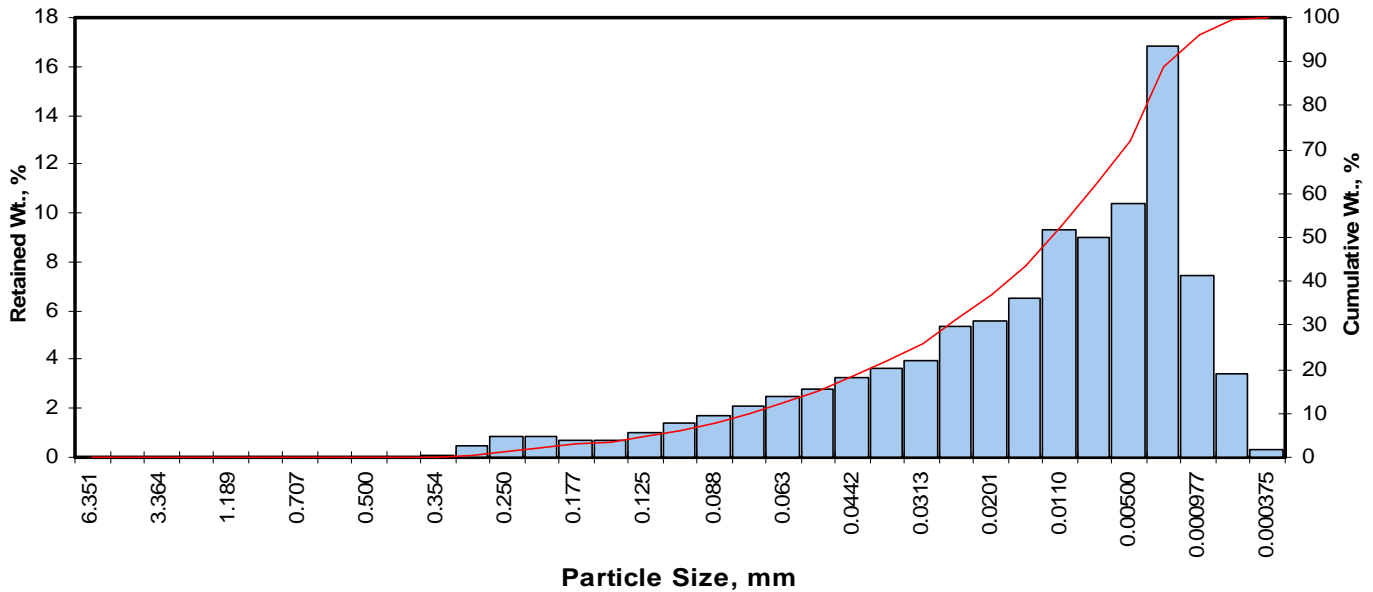
Grain Size Description Medium sand
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	36.31
Fine Sand	200	15.41
Silt	>0.005 mm	37.19
Clay	<0.005 mm	11.09
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-34.9-35.4
Depth, ft: 34.9-35.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.04	0.04	0.04
0.0117	0.297	1.75	50	0.44	0.44	0.48
0.0098	0.250	2.00	60	0.83	0.83	1.31
0.0083	0.210	2.25	70	0.87	0.87	2.18
0.0070	0.177	2.50	80	0.69	0.69	2.87
0.0059	0.149	2.75	100	0.73	0.73	3.60
0.0049	0.125	3.00	120	1.04	1.04	4.64
0.0041	0.105	3.25	140	1.38	1.38	6.02
0.0035	0.088	3.50	170	1.73	1.73	7.75
0.0029	0.074	3.75	200	2.11	2.11	9.86
0.0025	0.063	4.00	230	2.49	2.49	12.35
0.0021	0.053	4.25	270	2.82	2.82	15.18
0.00174	0.0442	4.50	325	3.22	3.22	18.40
0.00146	0.0372	4.75	400	3.63	3.63	22.03
0.00123	0.0313	5.00	450	3.97	3.97	26.00
0.000986	0.0250	5.32	500	5.33	5.33	31.33
0.000790	0.0201	5.64	635	5.58	5.58	36.91
0.000615	0.0156	6.00		6.48	6.48	43.39
0.000435	0.0110	6.50		9.30	9.30	52.70
0.000308	0.00781	7.00		8.97	8.97	61.67
0.000197	0.00500	7.65		10.40	10.40	72.07
0.000077	0.00195	9.00		16.80	16.80	88.88
0.000038	0.000977	10.00		7.41	7.41	96.29
0.000019	0.000488	11.00		3.39	3.39	99.68
0.000015	0.000375	11.38		0.32	0.32	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.06	0.0047	0.120
10	3.76	0.0029	0.074
16	4.31	0.0020	0.050
25	4.94	0.0013	0.033
40	5.81	0.0007	0.018
50	6.36	0.0005	0.012
60	6.91	0.0003	0.008
75	7.88	0.0002	0.004
84	8.61	0.0001	0.003
90	9.15	0.0001	0.002
95	9.83	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.36	6.36	6.36
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.012	0.012	0.012
Mean, phi	5.76	6.46	6.43
Mean, in.	0.0007	0.0004	0.0005
Mean, mm	0.018	0.011	0.012
Sorting	2.774	2.146	2.098
Skewness	0.963	0.049	0.038
Kurtosis	0.198	0.575	0.941

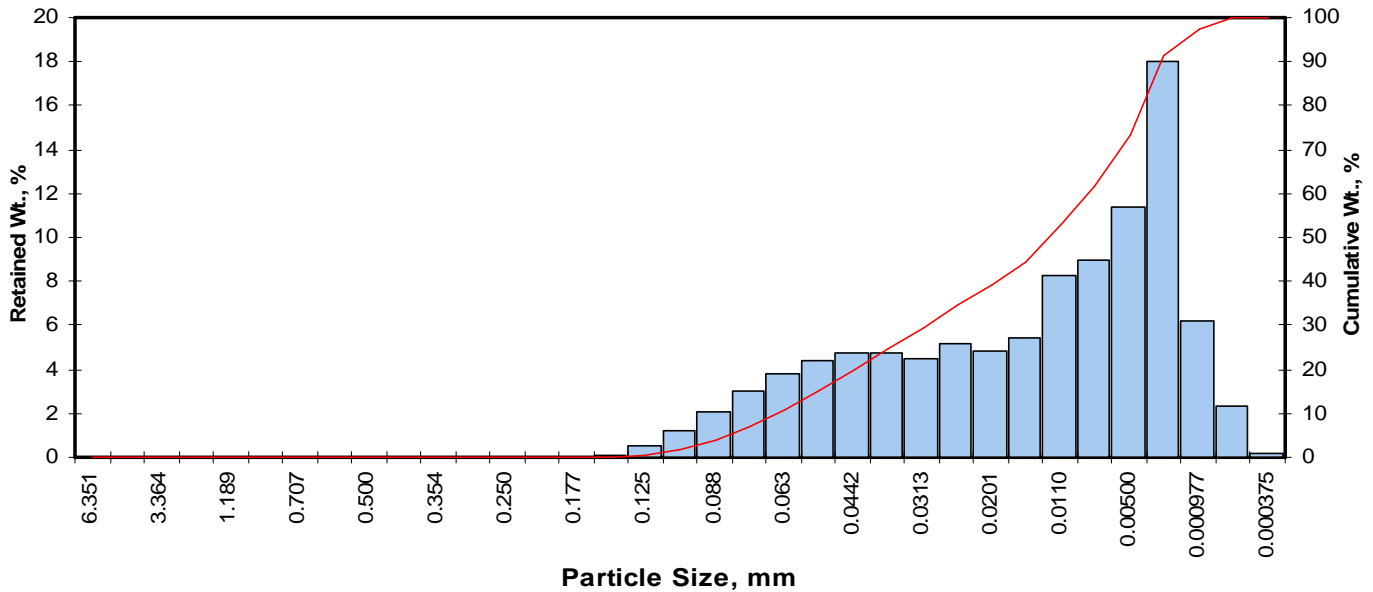
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	9.86
Silt	>0.005 mm	62.21
Clay	<0.005 mm	27.93
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-44.0-44.4
Depth, ft: 44.0-44.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.07	0.07	0.07
0.0049	0.125	3.00	120	0.48	0.48	0.55
0.0041	0.105	3.25	140	1.24	1.24	1.79
0.0035	0.088	3.50	170	2.11	2.11	3.90
0.0029	0.074	3.75	200	3.00	3.00	6.90
0.0025	0.063	4.00	230	3.80	3.80	10.70
0.0021	0.053	4.25	270	4.41	4.41	15.10
0.00174	0.0442	4.50	325	4.78	4.78	19.88
0.00146	0.0372	4.75	400	4.77	4.77	24.65
0.00123	0.0313	5.00	450	4.49	4.49	29.14
0.000986	0.0250	5.32	500	5.20	5.20	34.34
0.000790	0.0201	5.64	635	4.84	4.84	39.18
0.000615	0.0156	6.00		5.42	5.42	44.60
0.000435	0.0110	6.50		8.25	8.25	52.84
0.000308	0.00781	7.00		8.98	8.98	61.82
0.000197	0.00500	7.65		11.40	11.40	73.22
0.000077	0.00195	9.00		18.00	17.99	91.21
0.000038	0.000977	10.00		6.23	6.23	97.44
0.000019	0.000488	11.00		2.35	2.35	99.79
0.000015	0.000375	11.38		0.21	0.21	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.59	0.0033	0.083
10	3.95	0.0025	0.065
16	4.30	0.0020	0.051
25	4.77	0.0014	0.037
40	5.69	0.0008	0.019
50	6.33	0.0005	0.012
60	6.90	0.0003	0.008
75	7.78	0.0002	0.005
84	8.46	0.0001	0.003
90	8.91	0.0001	0.002
95	9.61	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.33	6.33	6.33
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.012	0.012	0.012
Mean, phi	5.60	6.38	6.36
Mean, in.	0.0008	0.0005	0.0005
Mean, mm	0.021	0.012	0.012
Sorting	2.838	2.080	1.952
Skewness	1.038	0.024	0.057
Kurtosis	0.257	0.446	0.819

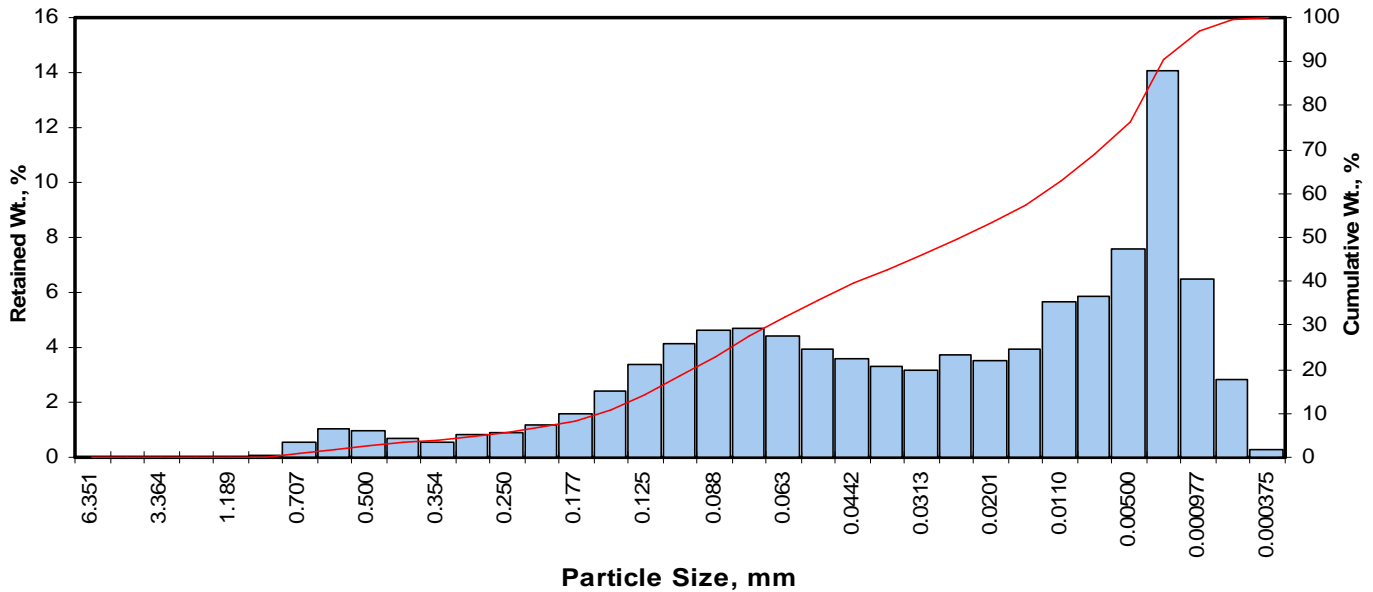
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	6.90
Silt	>0.005 mm	66.32
Clay	<0.005 mm	26.78
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-55.4-55.9
Depth, ft: 55.4-55.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.09	0.09	0.09
0.0278	0.707	0.50	25	0.56	0.56	0.65
0.0234	0.595	0.75	30	1.05	1.05	1.70
0.0197	0.500	1.00	35	0.95	0.95	2.65
0.0166	0.420	1.25	40	0.71	0.71	3.36
0.0139	0.354	1.50	45	0.53	0.53	3.89
0.0117	0.297	1.75	50	0.85	0.85	4.74
0.0098	0.250	2.00	60	0.90	0.90	5.64
0.0083	0.210	2.25	70	1.14	1.14	6.78
0.0070	0.177	2.50	80	1.61	1.61	8.38
0.0059	0.149	2.75	100	2.44	2.44	10.82
0.0049	0.125	3.00	120	3.36	3.36	14.18
0.0041	0.105	3.25	140	4.14	4.14	18.32
0.0035	0.088	3.50	170	4.60	4.60	22.92
0.0029	0.074	3.75	200	4.68	4.68	27.60
0.0025	0.063	4.00	230	4.39	4.39	31.99
0.0021	0.053	4.25	270	3.94	3.94	35.92
0.00174	0.0442	4.50	325	3.58	3.58	39.50
0.00146	0.0372	4.75	400	3.34	3.34	42.84
0.00123	0.0313	5.00	450	3.16	3.16	46.00
0.000986	0.0250	5.32	500	3.75	3.75	49.75
0.000790	0.0201	5.64	635	3.54	3.54	53.29
0.000615	0.0156	6.00		3.93	3.93	57.22
0.000435	0.0110	6.50		5.68	5.68	62.89
0.000308	0.00781	7.00		5.89	5.89	68.78
0.000197	0.00500	7.65		7.57	7.57	76.35
0.000077	0.00195	9.00		14.10	14.09	90.44
0.000038	0.000977	10.00		6.49	6.49	96.93
0.000019	0.000488	11.00		2.81	2.81	99.74
0.000015	0.000375	11.38		0.26	0.26	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.82	0.0111	0.283
10	2.67	0.0062	0.158
16	3.11	0.0046	0.116
25	3.61	0.0032	0.082
40	4.54	0.0017	0.043
50	5.34	0.0010	0.025
60	6.25	0.0005	0.013
75	7.53	0.0002	0.005
84	8.38	0.0001	0.003
90	8.96	0.0001	0.002
95	9.70	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.34	5.34	5.34
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.025	0.025	0.025
Mean, phi	4.52	5.75	5.61
Mean, in.	0.0017	0.0007	0.0008
Mean, mm	0.044	0.019	0.020
Sorting	3.889	2.635	2.511
Skewness	0.854	0.153	0.130
Kurtosis	0.246	0.495	0.824

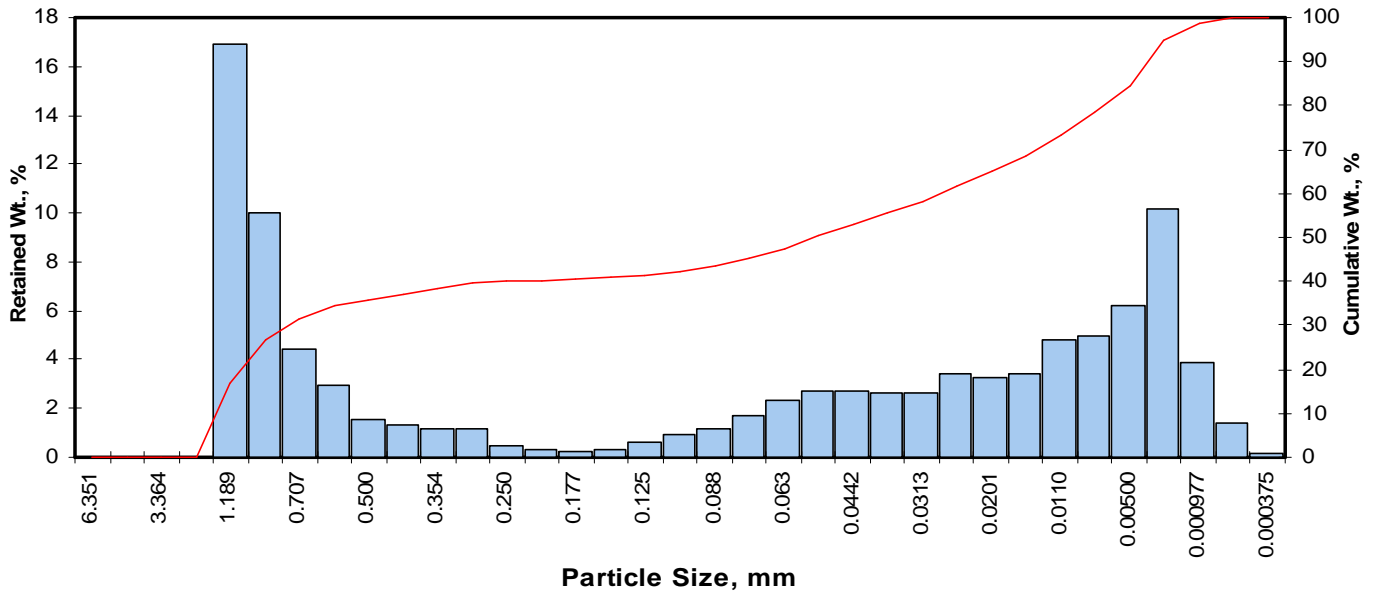
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.36
Fine Sand	200	24.24
Silt	>0.005 mm	48.75
Clay	<0.005 mm	23.65
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-67.5-67.8
Depth, ft: 67.5-67.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	16.90	16.90	16.90
0.0331	0.841	0.25	20	10.00	10.00	26.91
0.0278	0.707	0.50	25	4.45	4.45	31.36
0.0234	0.595	0.75	30	2.96	2.96	34.32
0.0197	0.500	1.00	35	1.57	1.57	35.89
0.0166	0.420	1.25	40	1.35	1.35	37.24
0.0139	0.354	1.50	45	1.15	1.15	38.39
0.0117	0.297	1.75	50	1.15	1.15	39.54
0.0098	0.250	2.00	60	0.48	0.48	40.02
0.0083	0.210	2.25	70	0.28	0.28	40.30
0.0070	0.177	2.50	80	0.24	0.24	40.54
0.0059	0.149	2.75	100	0.34	0.34	40.88
0.0049	0.125	3.00	120	0.62	0.62	41.50
0.0041	0.105	3.25	140	0.91	0.91	42.41
0.0035	0.088	3.50	170	1.18	1.18	43.59
0.0029	0.074	3.75	200	1.67	1.67	45.26
0.0025	0.063	4.00	230	2.33	2.33	47.59
0.0021	0.053	4.25	270	2.73	2.73	50.32
0.00174	0.0442	4.50	325	2.73	2.73	53.05
0.00146	0.0372	4.75	400	2.62	2.62	55.67
0.00123	0.0313	5.00	450	2.65	2.65	58.32
0.000986	0.0250	5.32	500	3.45	3.45	61.77
0.000790	0.0201	5.64	635	3.27	3.27	65.04
0.000615	0.0156	6.00		3.39	3.39	68.43
0.000435	0.0110	6.50		4.83	4.83	73.26
0.000308	0.00781	7.00		4.99	4.99	78.26
0.000197	0.00500	7.65		6.20	6.20	84.46
0.000077	0.00195	9.00		10.20	10.20	94.66
0.000038	0.000977	10.00		3.84	3.84	98.50
0.000019	0.000488	11.00		1.38	1.38	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.78	0.0675	1.715
10	-0.56	0.0579	1.470
16	-0.29	0.0481	1.223
25	0.15	0.0354	0.898
40	1.99	0.0099	0.252
50	4.22	0.0021	0.054
60	5.16	0.0011	0.028
75	6.67	0.0004	0.010
84	7.60	0.0002	0.005
90	8.38	0.0001	0.003
95	9.09	0.0001	0.002

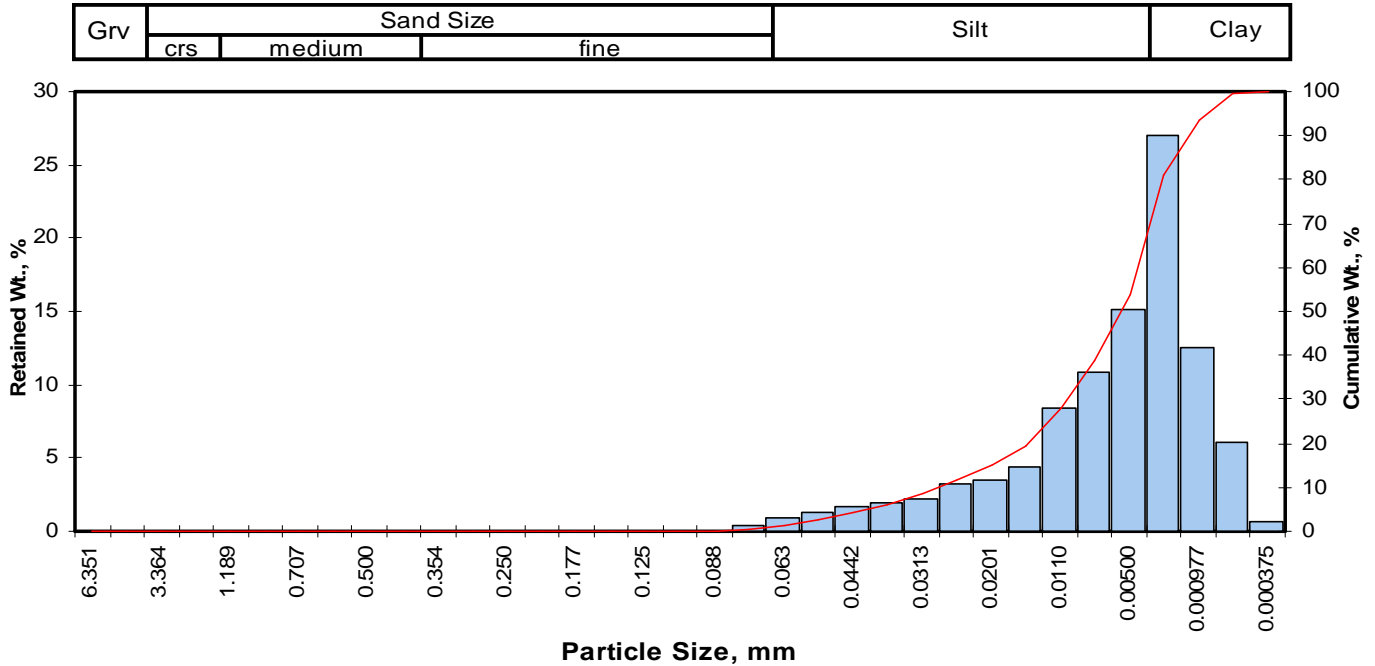
Measure	Trask	Inman	Folk-Ward
Median, phi	4.22	4.22	4.22
Median, in.	0.0021	0.0021	0.0021
Median, mm	0.054	0.054	0.054
Mean, phi	1.14	3.65	3.84
Mean, in.	0.0179	0.0031	0.0027
Mean, mm	0.454	0.079	0.070
Sorting	9.577	3.944	3.467
Skewness	1.749	-0.144	-0.079
Kurtosis	0.303	0.251	0.620

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	37.24
Fine Sand	200	8.02
Silt	>0.005 mm	39.20
Clay	<0.005 mm	15.54
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-4-74.1-74.5
Depth, ft: 74.1-74.3



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.00	0.00	0.00
0.0041	0.105	3.25	140	0.00	0.00	0.00
0.0035	0.088	3.50	170	0.05	0.05	0.05
0.0029	0.074	3.75	200	0.38	0.38	0.43
0.0025	0.063	4.00	230	0.93	0.93	1.36
0.0021	0.053	4.25	270	1.35	1.35	2.71
0.00174	0.0442	4.50	325	1.62	1.62	4.33
0.00146	0.0372	4.75	400	1.89	1.89	6.22
0.00123	0.0313	5.00	450	2.23	2.23	8.45
0.000986	0.0250	5.32	500	3.21	3.21	11.66
0.000790	0.0201	5.64	635	3.48	3.48	15.14
0.000615	0.0156	6.00		4.43	4.43	19.57
0.000435	0.0110	6.50		8.40	8.40	27.97
0.000308	0.00781	7.00		10.80	10.80	38.77
0.000197	0.00500	7.65		15.10	15.10	53.87
0.000077	0.00195	9.00		27.00	27.00	80.87
0.000038	0.000977	10.00		12.50	12.50	93.37
0.000019	0.000488	11.00		6.03	6.03	99.40
0.000015	0.000375	11.38		0.60	0.60	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.59	0.0016	0.042
10	5.15	0.0011	0.028
16	5.71	0.0008	0.019
25	6.32	0.0005	0.012
40	7.05	0.0003	0.008
50	7.48	0.0002	0.006
60	7.95	0.0002	0.004
75	8.71	0.0001	0.002
84	9.25	0.0001	0.002
90	9.73	0.0000	0.001
95	10.27	0.0000	0.001

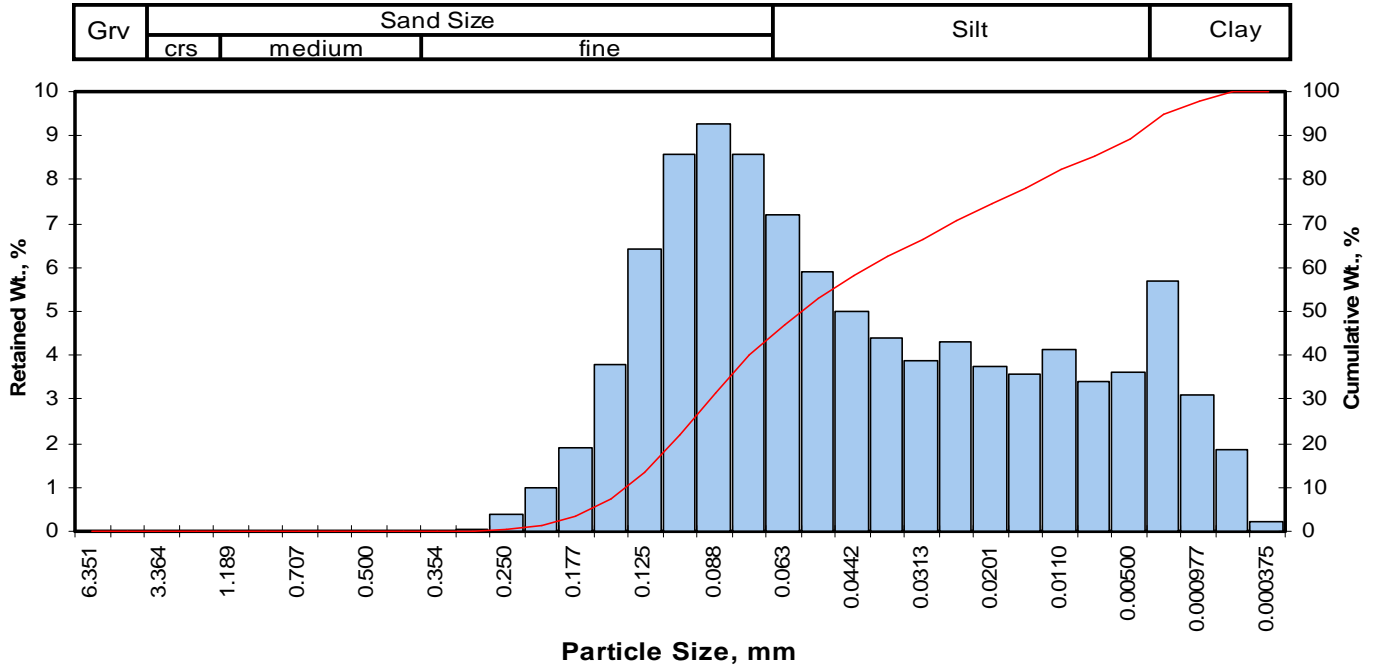
Measure	Trask	Inman	Folk-Ward
Median, phi	7.48	7.48	7.48
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.006	0.006	0.006
Mean, phi	7.07	7.48	7.48
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.007	0.006	0.006
Sorting	2.283	1.770	1.746
Skewness	0.976	0.000	-0.009
Kurtosis	0.188	0.605	0.977

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	0.43
Silt	>0.005 mm	53.44
Clay	<0.005 mm	46.13
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB18-68.5-68.8
Depth, ft: 68.5-68.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.06	0.06	0.06
0.0098	0.250	2.00	60	0.40	0.40	0.46
0.0083	0.210	2.25	70	0.99	0.99	1.45
0.0070	0.177	2.50	80	1.89	1.89	3.34
0.0059	0.149	2.75	100	3.78	3.78	7.12
0.0049	0.125	3.00	120	6.41	6.41	13.53
0.0041	0.105	3.25	140	8.57	8.57	22.10
0.0035	0.088	3.50	170	9.27	9.27	31.37
0.0029	0.074	3.75	200	8.58	8.58	39.95
0.0025	0.063	4.00	230	7.21	7.21	47.16
0.0021	0.053	4.25	270	5.90	5.90	53.07
0.00174	0.0442	4.50	325	5.00	5.00	58.07
0.00146	0.0372	4.75	400	4.38	4.38	62.45
0.00123	0.0313	5.00	450	3.89	3.89	66.34
0.000986	0.0250	5.32	500	4.33	4.33	70.67
0.000790	0.0201	5.64	635	3.73	3.73	74.40
0.000615	0.0156	6.00		3.58	3.58	77.98
0.000435	0.0110	6.50		4.14	4.14	82.12
0.000308	0.00781	7.00		3.40	3.40	85.52
0.000197	0.00500	7.65		3.61	3.61	89.13
0.000077	0.00195	9.00		5.69	5.69	94.82
0.000038	0.000977	10.00		3.11	3.11	97.93
0.000019	0.000488	11.00		1.87	1.87	99.80
0.000015	0.000375	11.38		0.20	0.20	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.61	0.0064	0.164
10	2.86	0.0054	0.138
16	3.07	0.0047	0.119
25	3.33	0.0039	0.100
40	3.75	0.0029	0.074
50	4.12	0.0023	0.058
60	4.61	0.0016	0.041
75	5.70	0.0008	0.019
84	6.78	0.0004	0.009
90	7.85	0.0002	0.004
95	9.06	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.12	4.12	4.12
Median, in.	0.0023	0.0023	0.0023
Median, mm	0.058	0.058	0.058
Mean, phi	4.07	4.92	4.66
Mean, in.	0.0023	0.0013	0.0016
Mean, mm	0.059	0.033	0.040
Sorting	2.276	1.852	1.903
Skewness	0.761	0.434	0.483
Kurtosis	0.302	0.741	1.114

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	39.95
Silt	>0.005 mm	49.18
Clay	<0.005 mm	10.87
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

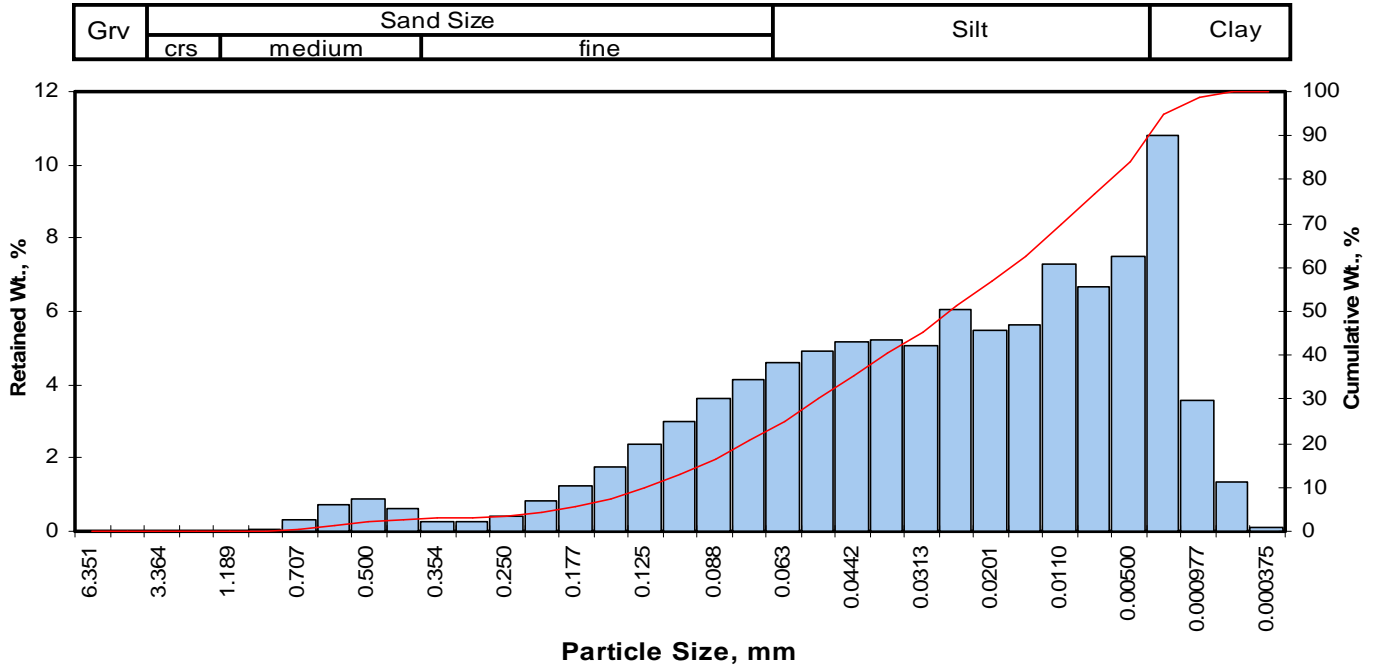
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3D

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RIDB18-72.0-72.5	72.0-72.4	Silt	0.026	0.00	0.00	2.63	17.86	63.66	15.85	79.51
PT-RIDB27-85.5-85.8	85.5-85.8	Silt	0.058	0.00	0.00	11.10	29.96	48.87	10.08	58.94
PT-RIDB-20-35.9-36.3	35.9-36.1	Silt	0.006	0.00	0.00	0.00	4.33	50.91	44.76	95.67
PT-RIDB-20-46.6-47.0	46.6-46.8	Silt	0.041	0.00	0.00	5.79	32.38	46.61	15.21	61.83
PT-RIDB-20-53.7-54.1	53.7-53.9	Silt	0.030	0.00	0.00	5.52	19.07	67.17	8.24	75.41
PT-RIDB-20-60.9-61.4	60.9-61.1	Fine sand	0.639	0.00	0.00	60.45	4.00	21.74	13.82	35.56
PT-RIDB-20-65.8-66.2	65.8-66.2	Silt	0.025	0.00	0.00	11.00	20.80	50.83	17.37	68.20
PT-RIDB-20-82.9-83.2	82.9-83.1	Fine sand	0.079	0.00	0.00	24.97	26.65	43.75	4.63	48.38

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB18-72.0-72.5
Depth, ft: 72.0-72.4



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.07	0.07	0.07
0.0278	0.707	0.50	25	0.32	0.32	0.39
0.0234	0.595	0.75	30	0.71	0.71	1.10
0.0197	0.500	1.00	35	0.89	0.89	1.99
0.0166	0.420	1.25	40	0.64	0.64	2.63
0.0139	0.354	1.50	45	0.26	0.26	2.89
0.0117	0.297	1.75	50	0.24	0.24	3.13
0.0098	0.250	2.00	60	0.42	0.42	3.55
0.0083	0.210	2.25	70	0.82	0.82	4.37
0.0070	0.177	2.50	80	1.25	1.25	5.61
0.0059	0.149	2.75	100	1.76	1.76	7.37
0.0049	0.125	3.00	120	2.36	2.36	9.73
0.0041	0.105	3.25	140	3.00	3.00	12.73
0.0035	0.088	3.50	170	3.61	3.61	16.34
0.0029	0.074	3.75	200	4.15	4.15	20.49
0.0025	0.063	4.00	230	4.60	4.60	25.09
0.0021	0.053	4.25	270	4.91	4.91	30.00
0.00174	0.0442	4.50	325	5.16	5.16	35.15
0.00146	0.0372	4.75	400	5.21	5.21	40.36
0.00123	0.0313	5.00	450	5.07	5.07	45.43
0.000986	0.0250	5.32	500	6.04	6.04	51.47
0.000790	0.0201	5.64	635	5.51	5.51	56.98
0.000615	0.0156	6.00		5.66	5.66	62.63
0.000435	0.0110	6.50		7.31	7.31	69.94
0.000308	0.00781	7.00		6.69	6.69	76.63
0.000197	0.00500	7.65		7.52	7.52	84.15
0.000077	0.00195	9.00		10.80	10.80	94.94
0.000038	0.000977	10.00		3.59	3.59	98.53
0.000019	0.000488	11.00		1.35	1.35	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.38	0.0076	0.193
10	3.02	0.0048	0.123
16	3.48	0.0035	0.090
25	4.00	0.0025	0.063
40	4.73	0.0015	0.038
50	5.24	0.0010	0.026
60	5.83	0.0007	0.018
75	6.88	0.0003	0.009
84	7.63	0.0002	0.005
90	8.38	0.0001	0.003
95	9.02	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.24	5.24	5.24
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.026	0.026	0.026
Mean, phi	4.81	5.55	5.45
Mean, in.	0.0014	0.0008	0.0009
Mean, mm	0.036	0.021	0.023
Sorting	2.716	2.078	2.045
Skewness	0.874	0.150	0.144
Kurtosis	0.226	0.597	0.944

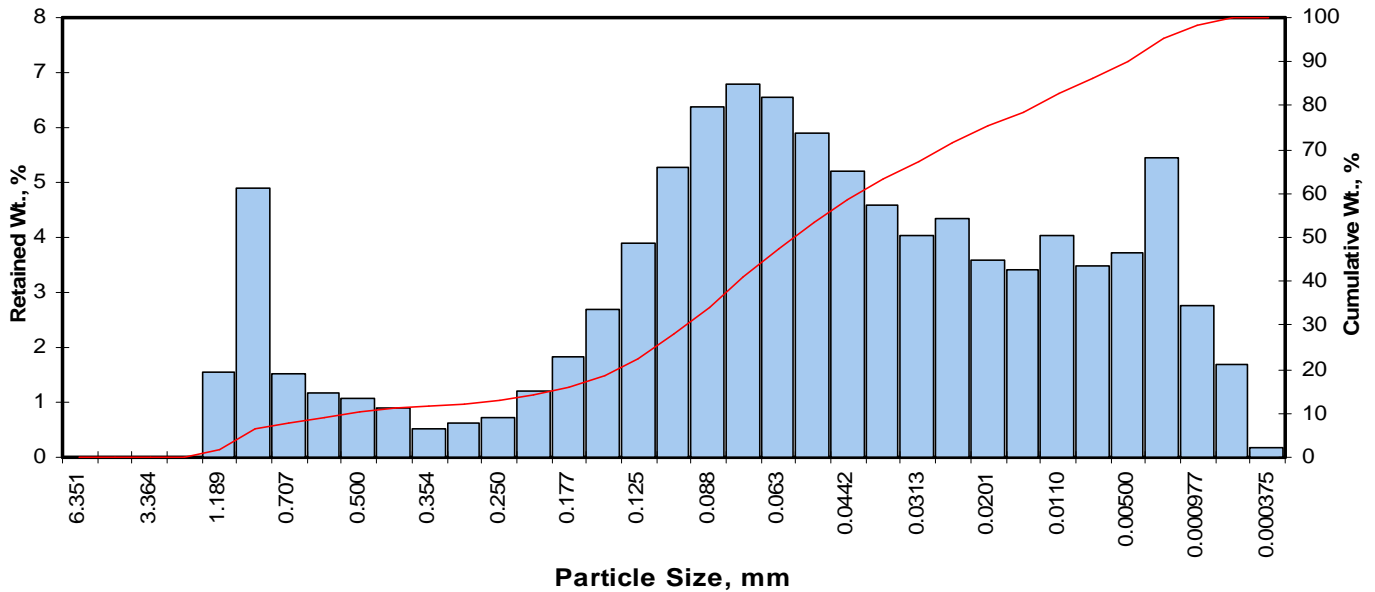
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.63
Fine Sand	200	17.86
Silt	>0.005 mm	63.66
Clay	<0.005 mm	15.85
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB27-85.5-85.8
Depth, ft: 85.5-85.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.56	1.56	1.56
0.0331	0.841	0.25	20	4.88	4.88	6.44
0.0278	0.707	0.50	25	1.53	1.53	7.97
0.0234	0.595	0.75	30	1.18	1.18	9.15
0.0197	0.500	1.00	35	1.07	1.07	10.22
0.0166	0.420	1.25	40	0.88	0.88	11.10
0.0139	0.354	1.50	45	0.53	0.53	11.63
0.0117	0.297	1.75	50	0.61	0.61	12.24
0.0098	0.250	2.00	60	0.73	0.73	12.97
0.0083	0.210	2.25	70	1.21	1.21	14.18
0.0070	0.177	2.50	80	1.83	1.83	16.01
0.0059	0.149	2.75	100	2.70	2.70	18.71
0.0049	0.125	3.00	120	3.89	3.89	22.60
0.0041	0.105	3.25	140	5.27	5.27	27.87
0.0035	0.088	3.50	170	6.38	6.38	34.25
0.0029	0.074	3.75	200	6.81	6.81	41.06
0.0025	0.063	4.00	230	6.55	6.55	47.61
0.0021	0.053	4.25	270	5.88	5.88	53.48
0.00174	0.0442	4.50	325	5.20	5.20	58.68
0.00146	0.0372	4.75	400	4.59	4.59	63.27
0.00123	0.0313	5.00	450	4.03	4.03	67.30
0.000986	0.0250	5.32	500	4.36	4.36	71.66
0.000790	0.0201	5.64	635	3.59	3.59	75.25
0.000615	0.0156	6.00		3.40	3.40	78.65
0.000435	0.0110	6.50		4.05	4.05	82.70
0.000308	0.00781	7.00		3.49	3.49	86.19
0.000197	0.00500	7.65		3.73	3.73	89.92
0.000077	0.00195	9.00		5.44	5.44	95.36
0.000038	0.000977	10.00		2.77	2.77	98.13
0.000019	0.000488	11.00		1.69	1.69	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.10	0.0367	0.931
10	0.95	0.0204	0.518
16	2.50	0.0070	0.177
25	3.11	0.0045	0.116
40	3.71	0.0030	0.076
50	4.10	0.0023	0.058
60	4.57	0.0017	0.042
75	5.62	0.0008	0.020
84	6.69	0.0004	0.010
90	7.66	0.0002	0.005
95	8.91	0.0001	0.002

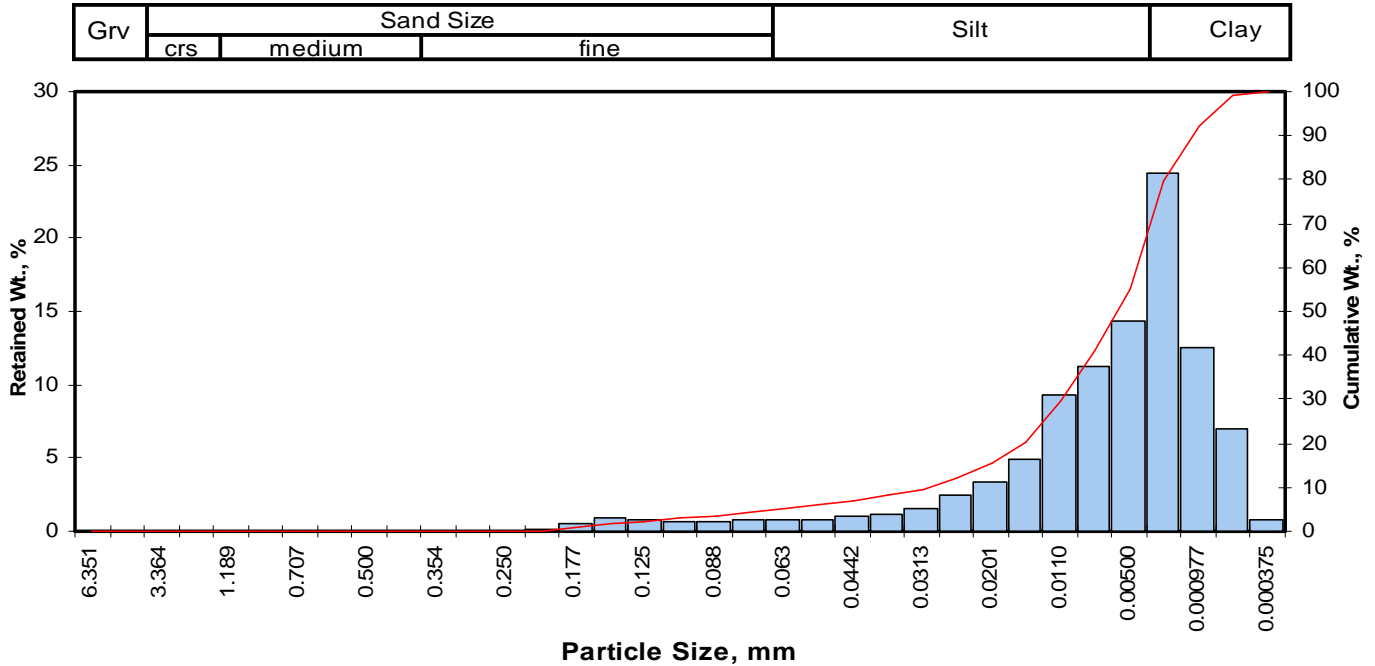
Measure	Trask	Inman	Folk-Ward
Median, phi	4.10	4.10	4.10
Median, in.	0.0023	0.0023	0.0023
Median, mm	0.058	0.058	0.058
Mean, phi	3.88	4.59	4.43
Mean, in.	0.0027	0.0016	0.0018
Mean, mm	0.068	0.041	0.046
Sorting	2.381	2.094	2.381
Skewness	0.833	0.234	0.163
Kurtosis	0.093	1.103	1.442

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	11.10
Fine Sand	200	29.96
Silt	>0.005 mm	48.87
Clay	<0.005 mm	10.08
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-20-35.9-36.3
Depth, ft: 35.9-36.1



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.01	0.01	0.01
0.0083	0.210	2.25	70	0.14	0.14	0.15
0.0070	0.177	2.50	80	0.56	0.56	0.71
0.0059	0.149	2.75	100	0.87	0.87	1.58
0.0049	0.125	3.00	120	0.76	0.76	2.34
0.0041	0.105	3.25	140	0.61	0.61	2.95
0.0035	0.088	3.50	170	0.64	0.64	3.59
0.0029	0.074	3.75	200	0.74	0.74	4.33
0.0025	0.063	4.00	230	0.79	0.79	5.12
0.0021	0.053	4.25	270	0.83	0.83	5.95
0.00174	0.0442	4.50	325	0.97	0.97	6.92
0.00146	0.0372	4.75	400	1.22	1.22	8.14
0.00123	0.0313	5.00	450	1.55	1.55	9.69
0.000986	0.0250	5.32	500	2.50	2.50	12.19
0.000790	0.0201	5.64	635	3.32	3.32	15.51
0.000615	0.0156	6.00		4.88	4.88	20.39
0.000435	0.0110	6.50		9.33	9.33	29.73
0.000308	0.00781	7.00		11.20	11.20	40.93
0.000197	0.00500	7.65		14.30	14.30	55.24
0.000077	0.00195	9.00		24.40	24.41	79.64
0.000038	0.000977	10.00		12.60	12.60	92.25
0.000019	0.000488	11.00		7.02	7.02	99.27
0.000015	0.000375	11.38		0.73	0.73	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.96	0.0025	0.064
10	5.04	0.0012	0.030
16	5.68	0.0008	0.020
25	6.25	0.0005	0.013
40	6.96	0.0003	0.008
50	7.41	0.0002	0.006
60	7.91	0.0002	0.004
75	8.74	0.0001	0.002
84	9.35	0.0001	0.002
90	9.82	0.0000	0.001
95	10.39	0.0000	0.001

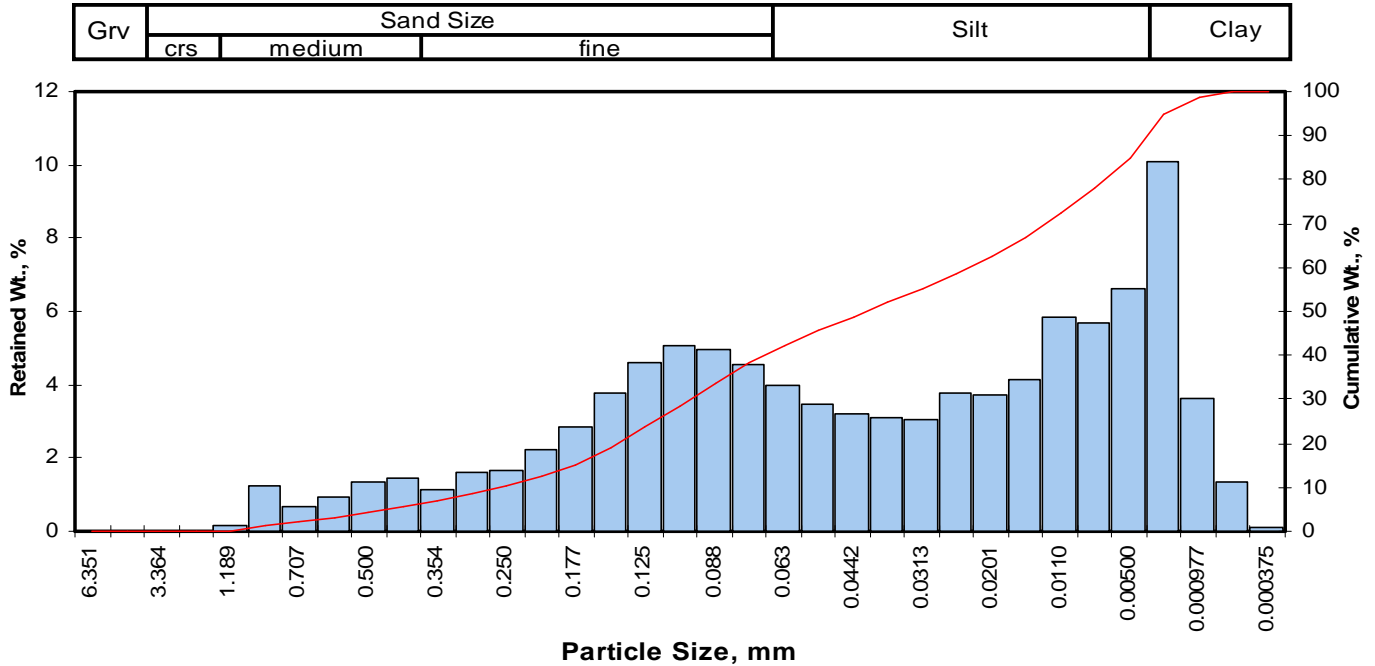
Measure	Trask	Inman	Folk-Ward
Median, phi	7.41	7.41	7.41
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.006	0.006	0.006
Mean, phi	7.01	7.51	7.48
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.008	0.005	0.006
Sorting	2.375	1.835	1.892
Skewness	0.942	0.056	-0.008
Kurtosis	0.185	0.752	1.056

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	4.33
Silt	>0.005 mm	50.91
Clay	<0.005 mm	44.76
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-20-46.6-47.0
Depth, ft: 46.6-46.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.14	0.14	0.14
0.0331	0.841	0.25	20	1.24	1.24	1.38
0.0278	0.707	0.50	25	0.68	0.68	2.06
0.0234	0.595	0.75	30	0.93	0.93	2.99
0.0197	0.500	1.00	35	1.34	1.34	4.33
0.0166	0.420	1.25	40	1.46	1.46	5.79
0.0139	0.354	1.50	45	1.14	1.14	6.93
0.0117	0.297	1.75	50	1.59	1.59	8.52
0.0098	0.250	2.00	60	1.68	1.68	10.20
0.0083	0.210	2.25	70	2.21	2.21	12.41
0.0070	0.177	2.50	80	2.87	2.87	15.28
0.0059	0.149	2.75	100	3.75	3.75	19.03
0.0049	0.125	3.00	120	4.58	4.58	23.61
0.0041	0.105	3.25	140	5.05	5.05	28.66
0.0035	0.088	3.50	170	4.98	4.98	33.64
0.0029	0.074	3.75	200	4.53	4.53	38.17
0.0025	0.063	4.00	230	3.96	3.96	42.13
0.0021	0.053	4.25	270	3.48	3.48	45.61
0.00174	0.0442	4.50	325	3.23	3.23	48.84
0.00146	0.0372	4.75	400	3.11	3.11	51.96
0.00123	0.0313	5.00	450	3.04	3.04	55.00
0.000986	0.0250	5.32	500	3.77	3.77	58.77
0.000790	0.0201	5.64	635	3.72	3.72	62.49
0.000615	0.0156	6.00		4.16	4.16	66.65
0.000435	0.0110	6.50		5.85	5.85	72.50
0.000308	0.00781	7.00		5.67	5.67	78.17
0.000197	0.00500	7.65		6.62	6.62	84.79
0.000077	0.00195	9.00		10.10	10.10	94.89
0.000038	0.000977	10.00		3.62	3.62	98.51
0.000019	0.000488	11.00		1.37	1.37	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.11	0.0182	0.462
10	1.97	0.0100	0.255
16	2.55	0.0067	0.171
25	3.07	0.0047	0.119
40	3.87	0.0027	0.069
50	4.59	0.0016	0.041
60	5.43	0.0009	0.023
75	6.72	0.0004	0.009
84	7.57	0.0002	0.005
90	8.34	0.0001	0.003
95	9.03	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.59	4.59	4.59
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.041	0.041	0.041
Mean, phi	3.96	5.06	4.90
Mean, in.	0.0025	0.0012	0.0013
Mean, mm	0.064	0.030	0.033
Sorting	3.546	2.510	2.454
Skewness	0.811	0.185	0.153
Kurtosis	0.218	0.577	0.888

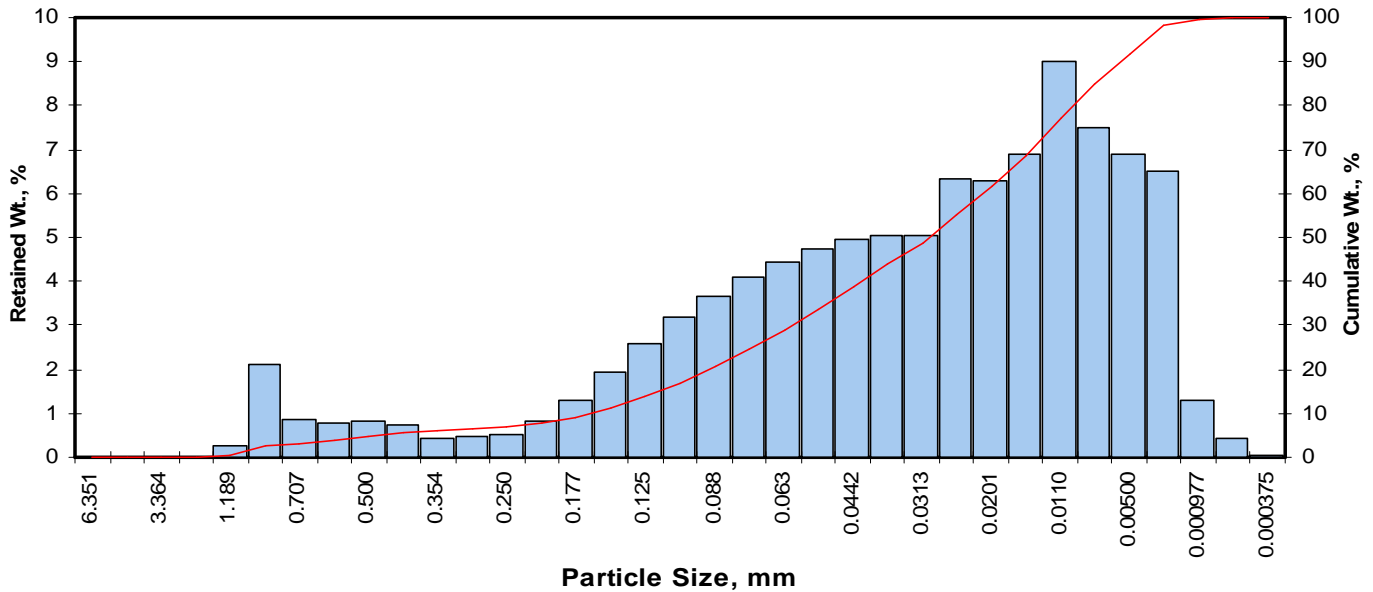
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.79
Fine Sand	200	32.38
Silt	>0.005 mm	46.61
Clay	<0.005 mm	15.21
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-20-53.7-54.1
Depth, ft: 53.7-53.9

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.27	0.27	0.27
0.0331	0.841	0.25	20	2.11	2.11	2.38
0.0278	0.707	0.50	25	0.85	0.85	3.23
0.0234	0.595	0.75	30	0.76	0.76	3.99
0.0197	0.500	1.00	35	0.81	0.81	4.80
0.0166	0.420	1.25	40	0.72	0.72	5.52
0.0139	0.354	1.50	45	0.44	0.44	5.96
0.0117	0.297	1.75	50	0.48	0.48	6.44
0.0098	0.250	2.00	60	0.51	0.51	6.95
0.0083	0.210	2.25	70	0.83	0.83	7.78
0.0070	0.177	2.50	80	1.31	1.31	9.09
0.0059	0.149	2.75	100	1.95	1.95	11.04
0.0049	0.125	3.00	120	2.60	2.60	13.64
0.0041	0.105	3.25	140	3.19	3.19	16.83
0.0035	0.088	3.50	170	3.67	3.67	20.50
0.0029	0.074	3.75	200	4.09	4.09	24.59
0.0025	0.063	4.00	230	4.44	4.44	29.03
0.0021	0.053	4.25	270	4.72	4.72	33.75
0.00174	0.0442	4.50	325	4.96	4.96	38.71
0.00146	0.0372	4.75	400	5.06	5.06	43.78
0.00123	0.0313	5.00	450	5.04	5.04	48.82
0.000986	0.0250	5.32	500	6.33	6.33	55.15
0.000790	0.0201	5.64	635	6.29	6.29	61.44
0.000615	0.0156	6.00		6.91	6.91	68.35
0.000435	0.0110	6.50		9.02	9.02	77.37
0.000308	0.00781	7.00		7.48	7.48	84.85
0.000197	0.00500	7.65		6.91	6.91	91.76
0.000077	0.00195	9.00		6.49	6.49	98.25
0.000038	0.000977	10.00		1.29	1.29	99.54
0.000019	0.000488	11.00		0.42	0.42	99.96
0.000015	0.000375	11.38		0.04	0.04	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.07	0.0188	0.477
10	2.62	0.0064	0.163
16	3.18	0.0043	0.110
25	3.77	0.0029	0.073
40	4.56	0.0017	0.042
50	5.06	0.0012	0.030
60	5.57	0.0008	0.021
75	6.37	0.0005	0.012
84	6.94	0.0003	0.008
90	7.48	0.0002	0.006
95	8.32	0.0001	0.003

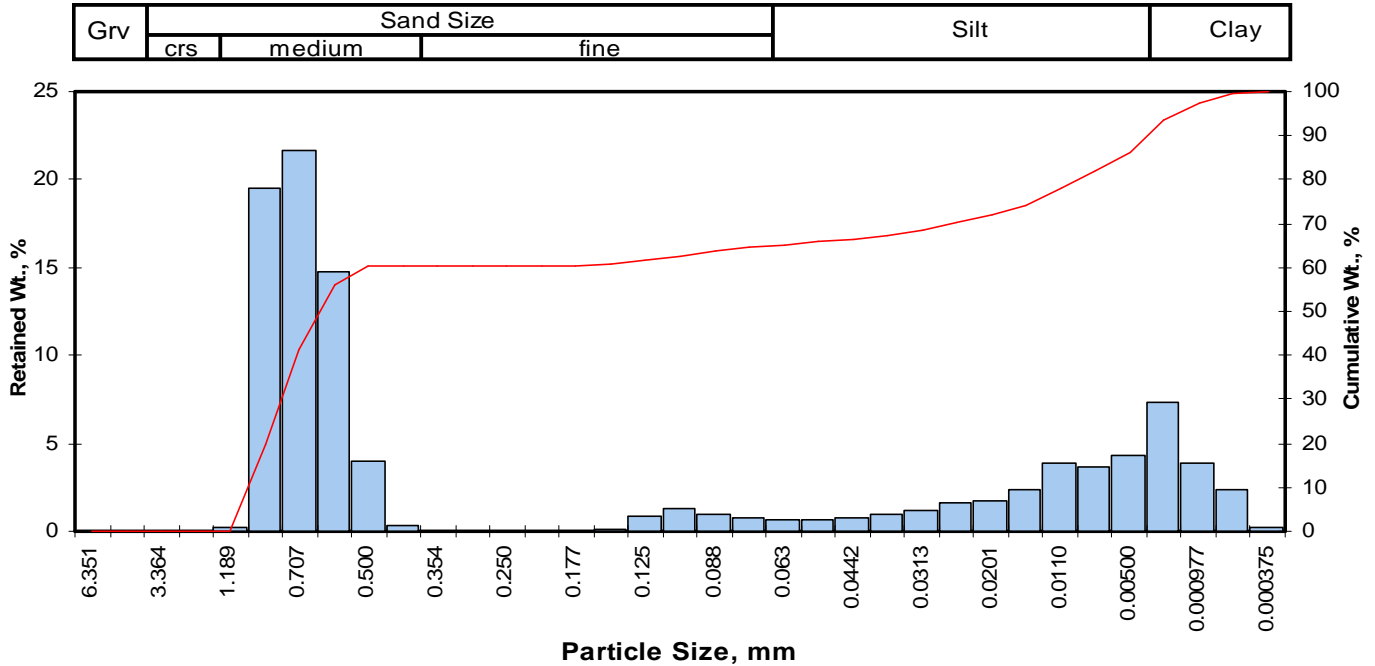
Measure	Trask	Inman	Folk-Ward
Median, phi	5.06	5.06	5.06
Median, in.	0.0012	0.0012	0.0012
Median, mm	0.030	0.030	0.030
Mean, phi	4.55	5.06	5.06
Mean, in.	0.0017	0.0012	0.0012
Mean, mm	0.043	0.030	0.030
Sorting	2.459	1.879	2.038
Skewness	0.992	0.002	-0.049
Kurtosis	0.194	0.930	1.145

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.52
Fine Sand	200	19.07
Silt	>0.005 mm	67.17
Clay	<0.005 mm	8.24
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-20-60.9-61.4
Depth, ft: 60.9-61.1



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.21	0.21	0.21
0.0331	0.841	0.25	20	19.50	19.51	19.72
0.0278	0.707	0.50	25	21.60	21.61	41.33
0.0234	0.595	0.75	30	14.80	14.81	56.13
0.0197	0.500	1.00	35	4.00	4.00	60.14
0.0166	0.420	1.25	40	0.31	0.31	60.45
0.0139	0.354	1.50	45	0.00	0.00	60.45
0.0117	0.297	1.75	50	0.00	0.00	60.45
0.0098	0.250	2.00	60	0.00	0.00	60.45
0.0083	0.210	2.25	70	0.00	0.00	60.45
0.0070	0.177	2.50	80	0.00	0.00	60.45
0.0059	0.149	2.75	100	0.16	0.16	60.61
0.0049	0.125	3.00	120	0.83	0.83	61.44
0.0041	0.105	3.25	140	1.27	1.27	62.71
0.0035	0.088	3.50	170	1.02	1.02	63.73
0.0029	0.074	3.75	200	0.71	0.71	64.44
0.0025	0.063	4.00	230	0.65	0.65	65.09
0.0021	0.053	4.25	270	0.66	0.66	65.75
0.00174	0.0442	4.50	325	0.72	0.72	66.48
0.00146	0.0372	4.75	400	0.96	0.96	67.44
0.00123	0.0313	5.00	450	1.23	1.23	68.67
0.000986	0.0250	5.32	500	1.63	1.63	70.30
0.000790	0.0201	5.64	635	1.68	1.68	71.98
0.000615	0.0156	6.00		2.36	2.36	74.34
0.000435	0.0110	6.50		3.85	3.85	78.19
0.000308	0.00781	7.00		3.69	3.69	81.88
0.000197	0.00500	7.65		4.30	4.30	86.18
0.000077	0.00195	9.00		7.31	7.31	93.50
0.000038	0.000977	10.00		3.88	3.88	97.38
0.000019	0.000488	11.00		2.36	2.36	99.74
0.000015	0.000375	11.38		0.26	0.26	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.13	0.0430	1.092
10	0.00	0.0393	0.999
16	0.15	0.0354	0.898
25	0.31	0.0317	0.806
40	0.48	0.0281	0.715
50	0.65	0.0252	0.639
60	0.99	0.0198	0.503
75	6.09	0.0006	0.015
84	7.32	0.0002	0.006
90	8.35	0.0001	0.003
95	9.39	0.0001	0.001

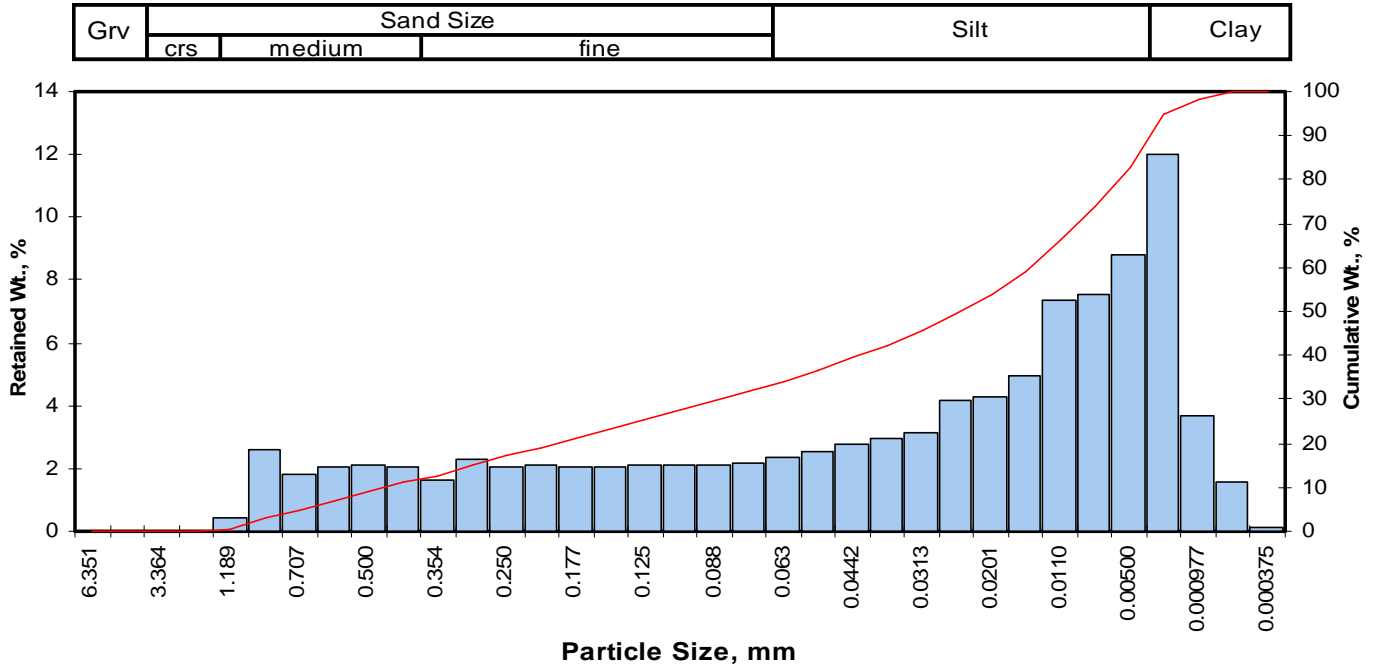
Measure	Trask	Inman	Folk-Ward
Median, phi	0.65	0.65	0.65
Median, in.	0.0252	0.0252	0.0252
Median, mm	0.639	0.639	0.639
Mean, phi	1.28	3.74	2.71
Mean, in.	0.0162	0.0030	0.0060
Mean, mm	0.410	0.075	0.153
Sorting	7.399	3.581	3.232
Skewness	0.171	0.863	0.850
Kurtosis	0.397	0.328	0.675

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	60.45
Fine Sand	200	4.00
Silt	>0.005 mm	21.74
Clay	<0.005 mm	13.82
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-20-65.8-66.2
Depth, ft: 65.8-66.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.42	0.42	0.42
0.0331	0.841	0.25	20	2.58	2.58	3.00
0.0278	0.707	0.50	25	1.81	1.81	4.81
0.0234	0.595	0.75	30	2.03	2.03	6.84
0.0197	0.500	1.00	35	2.11	2.11	8.95
0.0166	0.420	1.25	40	2.05	2.05	11.00
0.0139	0.354	1.50	45	1.65	1.65	12.64
0.0117	0.297	1.75	50	2.31	2.31	14.95
0.0098	0.250	2.00	60	2.08	2.08	17.03
0.0083	0.210	2.25	70	2.12	2.12	19.15
0.0070	0.177	2.50	80	2.06	2.06	21.21
0.0059	0.149	2.75	100	2.05	2.05	23.26
0.0049	0.125	3.00	120	2.10	2.10	25.36
0.0041	0.105	3.25	140	2.12	2.12	27.48
0.0035	0.088	3.50	170	2.12	2.12	29.60
0.0029	0.074	3.75	200	2.20	2.20	31.80
0.0025	0.063	4.00	230	2.36	2.36	34.16
0.0021	0.053	4.25	270	2.55	2.55	36.71
0.00174	0.0442	4.50	325	2.77	2.77	39.47
0.00146	0.0372	4.75	400	2.97	2.97	42.44
0.00123	0.0313	5.00	450	3.14	3.14	45.58
0.000986	0.0250	5.32	500	4.15	4.15	49.73
0.000790	0.0201	5.64	635	4.27	4.27	54.00
0.000615	0.0156	6.00		4.93	4.93	58.93
0.000435	0.0110	6.50		7.36	7.36	66.28
0.000308	0.00781	7.00		7.52	7.52	73.80
0.000197	0.00500	7.65		8.83	8.83	82.63
0.000077	0.00195	9.00		12.00	12.00	94.62
0.000038	0.000977	10.00		3.68	3.68	98.30
0.000019	0.000488	11.00		1.55	1.55	99.85
0.000015	0.000375	11.38		0.15	0.15	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.52	0.0274	0.696
10	1.13	0.0180	0.457
16	1.88	0.0107	0.272
25	2.96	0.0051	0.129
40	4.54	0.0017	0.043
50	5.34	0.0010	0.025
60	6.07	0.0006	0.015
75	7.09	0.0003	0.007
84	7.80	0.0002	0.004
90	8.48	0.0001	0.003
95	9.10	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.34	5.34	5.34
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.025	0.025	0.025
Mean, phi	3.88	4.84	5.01
Mean, in.	0.0027	0.0014	0.0012
Mean, mm	0.068	0.035	0.031
Sorting	4.185	2.962	2.781
Skewness	1.246	-0.170	-0.146
Kurtosis	0.134	0.448	0.851

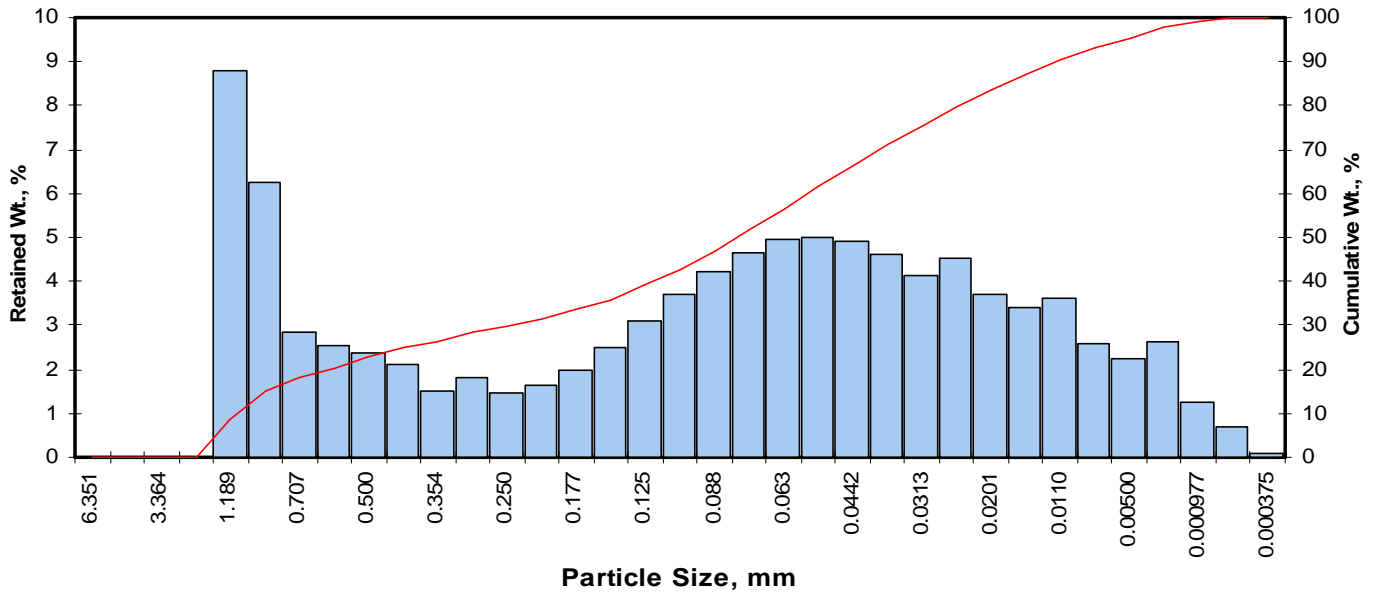
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	11.00
Fine Sand	200	20.80
Silt	>0.005 mm	50.83
Clay	<0.005 mm	17.37
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-20-82.9-83.2
Depth, ft: 82.9-83.1

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	8.81	8.81	8.81
0.0331	0.841	0.25	20	6.25	6.25	15.06
0.0278	0.707	0.50	25	2.84	2.84	17.90
0.0234	0.595	0.75	30	2.56	2.56	20.46
0.0197	0.500	1.00	35	2.38	2.38	22.84
0.0166	0.420	1.25	40	2.13	2.13	24.97
0.0139	0.354	1.50	45	1.53	1.53	26.50
0.0117	0.297	1.75	50	1.80	1.80	28.30
0.0098	0.250	2.00	60	1.48	1.48	29.78
0.0083	0.210	2.25	70	1.65	1.65	31.43
0.0070	0.177	2.50	80	1.99	1.99	33.42
0.0059	0.149	2.75	100	2.52	2.52	35.94
0.0049	0.125	3.00	120	3.11	3.11	39.05
0.0041	0.105	3.25	140	3.70	3.70	42.75
0.0035	0.088	3.50	170	4.22	4.22	46.97
0.0029	0.074	3.75	200	4.65	4.65	51.62
0.0025	0.063	4.00	230	4.94	4.94	56.56
0.0021	0.053	4.25	270	5.02	5.02	61.58
0.00174	0.0442	4.50	325	4.93	4.93	66.51
0.00146	0.0372	4.75	400	4.61	4.61	71.12
0.00123	0.0313	5.00	450	4.14	4.14	75.26
0.000986	0.0250	5.32	500	4.53	4.53	79.79
0.000790	0.0201	5.64	635	3.72	3.72	83.51
0.000615	0.0156	6.00		3.39	3.39	86.90
0.000435	0.0110	6.50		3.62	3.62	90.52
0.000308	0.00781	7.00		2.59	2.59	93.11
0.000197	0.00500	7.65		2.26	2.26	95.37
0.000077	0.00195	9.00		2.64	2.64	98.01
0.000038	0.000977	10.00		1.23	1.23	99.24
0.000019	0.000488	11.00		0.69	0.69	99.93
0.000015	0.000375	11.38		0.07	0.07	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.57	0.0586	1.489
10	-0.15	0.0438	1.113
16	0.33	0.0313	0.794
25	1.25	0.0165	0.419
40	3.06	0.0047	0.120
50	3.66	0.0031	0.079
60	4.17	0.0022	0.056
75	4.98	0.0012	0.032
84	5.69	0.0008	0.019
90	6.43	0.0005	0.012
95	7.54	0.0002	0.005

Measure	Trask	Inman	Folk-Ward
Median, phi	3.66	3.66	3.66
Median, in.	0.0031	0.0031	0.0031
Median, mm	0.079	0.079	0.079
Mean, phi	2.15	3.01	3.23
Mean, in.	0.0089	0.0049	0.0042
Mean, mm	0.225	0.124	0.107
Sorting	3.642	2.680	2.569
Skewness	1.457	-0.243	-0.144
Kurtosis	0.176	0.514	0.892

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	24.97
Fine Sand	200	26.65
Silt	>0.005 mm	43.75
Clay	<0.005 mm	4.63
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

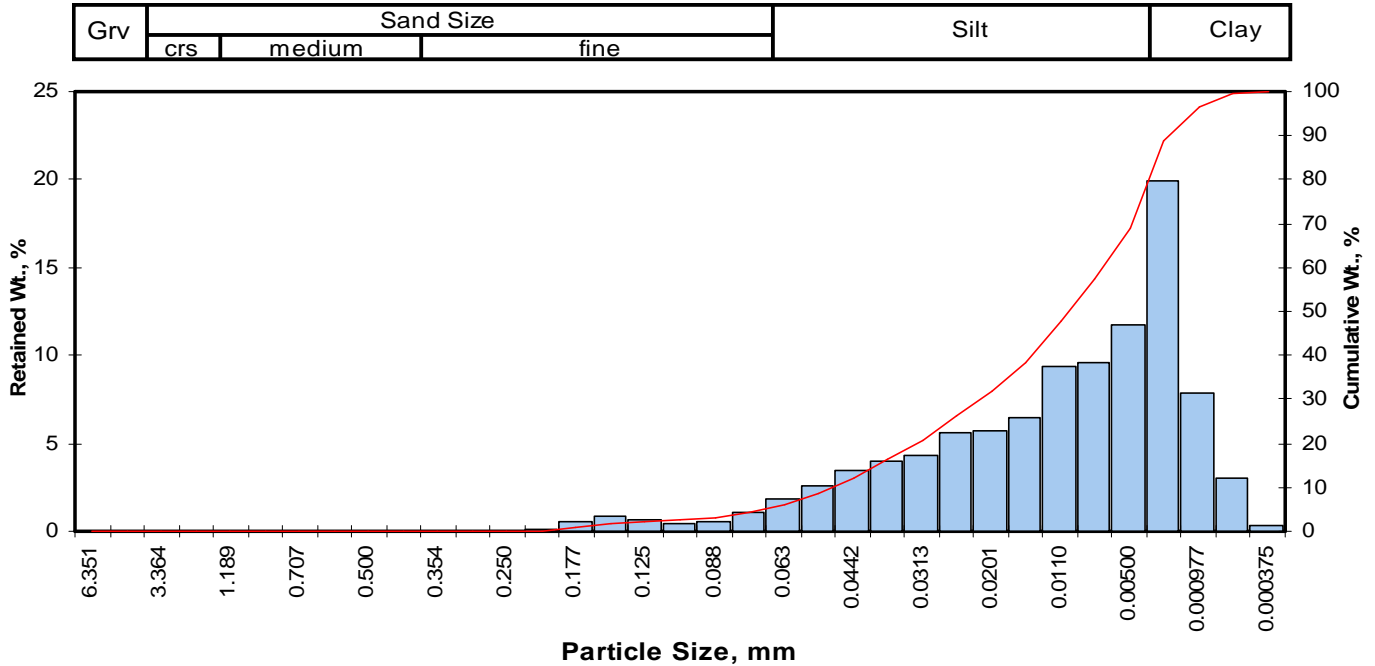
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3D

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RIDB-7-23.0-23.7	23.5	Silt	0.010	0.00	0.00	0.00	4.31	64.67	31.02	95.69
PT-RIDB-7-30.9-31.4	31.2	Silt	0.035	0.00	0.00	4.24	28.33	50.02	17.42	67.44
PT-RIDB-7-33.8-34.5	34.25	Silt	0.021	0.00	0.00	2.48	16.64	62.22	18.66	80.88
PT-RIDB-7-37.0-37.5	37.3	Fine sand	0.096	0.00	0.00	33.44	20.77	37.88	7.91	45.79
PT-RIDB-7-41.5-42.0	41.8	Silt	0.018	0.00	0.00	0.00	12.09	61.86	26.06	87.91
PT-RIDB-7-54.1-54.5	54.4	Silt	0.016	0.00	0.00	0.00	15.43	59.82	24.75	84.57
PT-RIDB-7-66.1-66.7	66.6	Fine sand	0.092	0.00	0.00	7.53	50.02	32.74	9.71	42.45
PT-RIDB-7-83.2-83.6	83.5	Fine sand	0.022	0.00	0.00	21.88	8.25	47.88	22.00	69.88
PT-M-203-8.0-8.4	8.0-8.4	Fine sand	0.158	0.00	0.00	30.09	43.50	21.62	4.79	26.41
PT-M-203-13.6-14.0	13.9	Silt	0.052	0.00	0.00	3.78	36.24	43.67	16.31	59.98

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-7-23.0-23.7
Depth, ft: 23.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.12	0.12	0.12
0.0070	0.177	2.50	80	0.57	0.57	0.69
0.0059	0.149	2.75	100	0.91	0.91	1.60
0.0049	0.125	3.00	120	0.65	0.65	2.25
0.0041	0.105	3.25	140	0.41	0.41	2.66
0.0035	0.088	3.50	170	0.56	0.56	3.22
0.0029	0.074	3.75	200	1.09	1.09	4.31
0.0025	0.063	4.00	230	1.82	1.82	6.13
0.0021	0.053	4.25	270	2.62	2.62	8.75
0.00174	0.0442	4.50	325	3.45	3.45	12.20
0.00146	0.0372	4.75	400	4.03	4.03	16.23
0.00123	0.0313	5.00	450	4.32	4.32	20.55
0.000986	0.0250	5.32	500	5.59	5.59	26.14
0.000790	0.0201	5.64	635	5.66	5.66	31.80
0.000615	0.0156	6.00		6.46	6.46	38.26
0.000435	0.0110	6.50		9.38	9.38	47.64
0.000308	0.00781	7.00		9.55	9.55	57.19
0.000197	0.00500	7.65		11.80	11.80	68.98
0.000077	0.00195	9.00		19.90	19.90	88.88
0.000038	0.000977	10.00		7.83	7.83	96.71
0.000019	0.000488	11.00		3.02	3.02	99.73
0.000015	0.000375	11.38		0.27	0.27	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.84	0.0027	0.070
10	4.34	0.0019	0.049
16	4.74	0.0015	0.038
25	5.25	0.0010	0.026
40	6.09	0.0006	0.015
50	6.62	0.0004	0.010
60	7.15	0.0003	0.007
75	8.05	0.0001	0.004
84	8.67	0.0001	0.002
90	9.14	0.0001	0.002
95	9.78	0.0000	0.001

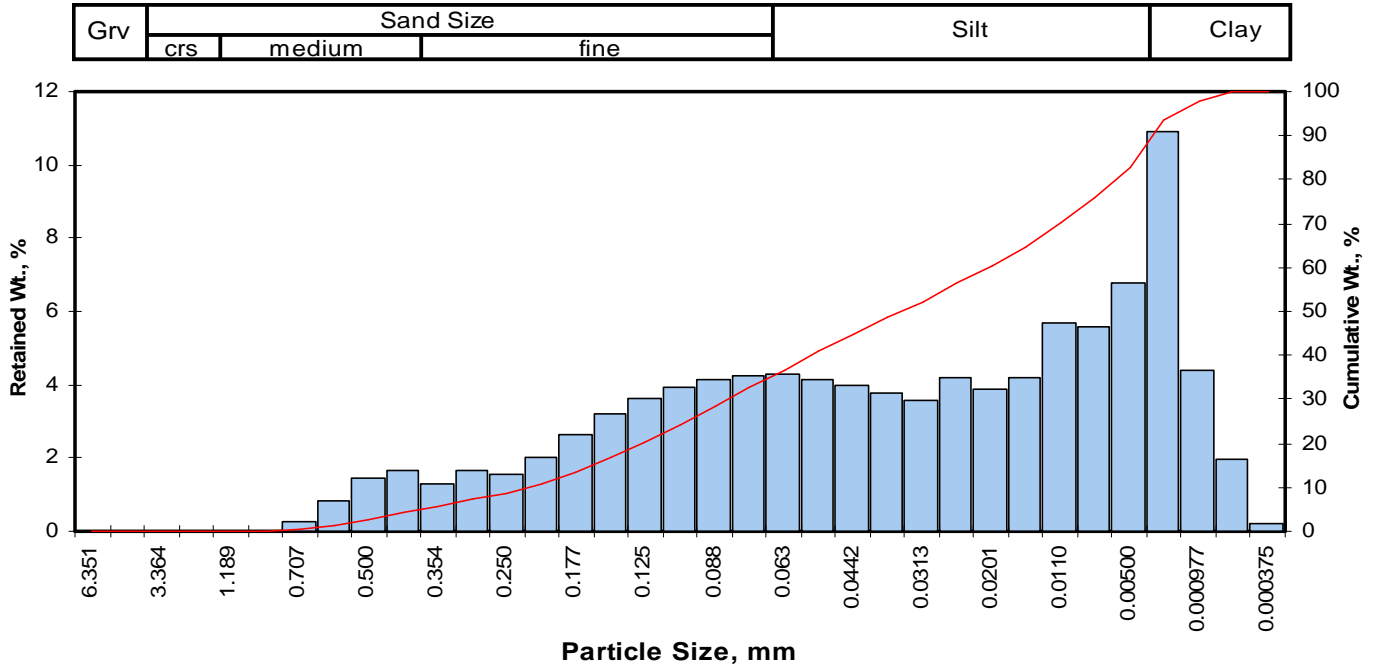
Measure	Trask	Inman	Folk-Ward
Median, phi	6.62	6.62	6.62
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.010	0.010	0.010
Mean, phi	6.06	6.70	6.68
Mean, in.	0.0006	0.0004	0.0004
Mean, mm	0.015	0.010	0.010
Sorting	2.639	1.966	1.883
Skewness	0.979	0.040	0.052
Kurtosis	0.236	0.510	0.869

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	4.31
Silt	>0.005 mm	64.67
Clay	<0.005 mm	31.02
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-7-30.9-31.4
Depth, ft: 31.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.03	0.03	0.03
0.0278	0.707	0.50	25	0.26	0.26	0.29
0.0234	0.595	0.75	30	0.85	0.85	1.14
0.0197	0.500	1.00	35	1.45	1.45	2.59
0.0166	0.420	1.25	40	1.65	1.65	4.24
0.0139	0.354	1.50	45	1.31	1.31	5.55
0.0117	0.297	1.75	50	1.68	1.68	7.23
0.0098	0.250	2.00	60	1.57	1.57	8.80
0.0083	0.210	2.25	70	2.01	2.01	10.81
0.0070	0.177	2.50	80	2.62	2.62	13.43
0.0059	0.149	2.75	100	3.22	3.22	16.65
0.0049	0.125	3.00	120	3.63	3.63	20.29
0.0041	0.105	3.25	140	3.91	3.91	24.20
0.0035	0.088	3.50	170	4.11	4.11	28.31
0.0029	0.074	3.75	200	4.25	4.25	32.56
0.0025	0.063	4.00	230	4.27	4.27	36.84
0.0021	0.053	4.25	270	4.14	4.14	40.98
0.00174	0.0442	4.50	325	3.98	3.98	44.96
0.00146	0.0372	4.75	400	3.77	3.77	48.73
0.00123	0.0313	5.00	450	3.55	3.55	52.28
0.000986	0.0250	5.32	500	4.19	4.19	56.48
0.000790	0.0201	5.64	635	3.89	3.89	60.37
0.000615	0.0156	6.00		4.17	4.17	64.54
0.000435	0.0110	6.50		5.70	5.70	70.24
0.000308	0.00781	7.00		5.58	5.58	75.83
0.000197	0.00500	7.65		6.75	6.75	82.58
0.000077	0.00195	9.00		10.90	10.91	93.49
0.000038	0.000977	10.00		4.38	4.38	97.87
0.000019	0.000488	11.00		1.94	1.94	99.81
0.000015	0.000375	11.38		0.19	0.19	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.40	0.0150	0.380
10	2.15	0.0089	0.225
16	2.70	0.0061	0.154
25	3.30	0.0040	0.102
40	4.19	0.0022	0.055
50	4.84	0.0014	0.035
60	5.61	0.0008	0.020
75	6.93	0.0003	0.008
84	7.82	0.0002	0.004
90	8.57	0.0001	0.003
95	9.35	0.0001	0.002

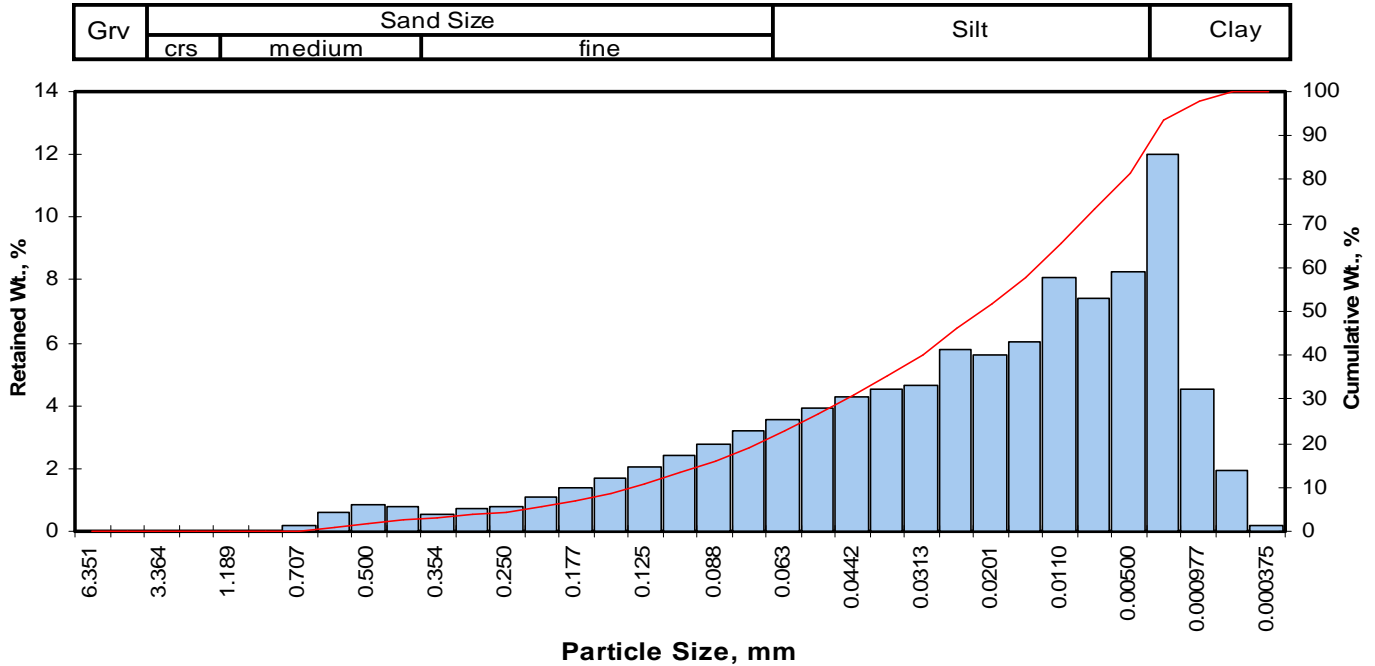
Measure	Trask	Inman	Folk-Ward
Median, phi	4.84	4.84	4.84
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.035	0.035	0.035
Mean, phi	4.19	5.26	5.12
Mean, in.	0.0022	0.0010	0.0011
Mean, mm	0.055	0.026	0.029
Sorting	3.515	2.561	2.485
Skewness	0.828	0.164	0.149
Kurtosis	0.210	0.552	0.898

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	4.24
Fine Sand	200	28.33
Silt	>0.005 mm	50.02
Clay	<0.005 mm	17.42
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-7-33.8-34.5
Depth, ft: 34.25



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.01	0.01	0.01
0.0278	0.707	0.50	25	0.18	0.18	0.19
0.0234	0.595	0.75	30	0.62	0.62	0.81
0.0197	0.500	1.00	35	0.87	0.87	1.68
0.0166	0.420	1.25	40	0.80	0.80	2.48
0.0139	0.354	1.50	45	0.53	0.53	3.01
0.0117	0.297	1.75	50	0.70	0.70	3.71
0.0098	0.250	2.00	60	0.81	0.81	4.52
0.0083	0.210	2.25	70	1.11	1.11	5.63
0.0070	0.177	2.50	80	1.39	1.39	7.02
0.0059	0.149	2.75	100	1.71	1.71	8.73
0.0049	0.125	3.00	120	2.05	2.05	10.78
0.0041	0.105	3.25	140	2.40	2.40	13.18
0.0035	0.088	3.50	170	2.77	2.77	15.95
0.0029	0.074	3.75	200	3.17	3.17	19.12
0.0025	0.063	4.00	230	3.57	3.57	22.69
0.0021	0.053	4.25	270	3.94	3.94	26.63
0.00174	0.0442	4.50	325	4.30	4.30	30.93
0.00146	0.0372	4.75	400	4.55	4.55	35.48
0.00123	0.0313	5.00	450	4.65	4.65	40.13
0.000986	0.0250	5.32	500	5.82	5.82	45.96
0.000790	0.0201	5.64	635	5.60	5.60	51.56
0.000615	0.0156	6.00		6.02	6.02	57.58
0.000435	0.0110	6.50		8.07	8.07	65.65
0.000308	0.00781	7.00		7.43	7.43	73.08
0.000197	0.00500	7.65		8.26	8.26	81.34
0.000077	0.00195	9.00		12.00	12.00	93.34
0.000038	0.000977	10.00		4.55	4.55	97.89
0.000019	0.000488	11.00		1.93	1.93	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.11	0.0091	0.232
10	2.90	0.0053	0.134
16	3.50	0.0035	0.088
25	4.15	0.0022	0.056
40	4.99	0.0012	0.031
50	5.55	0.0008	0.021
60	6.15	0.0006	0.014
75	7.15	0.0003	0.007
84	7.95	0.0002	0.004
90	8.62	0.0001	0.003
95	9.36	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.55	5.55	5.55
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	4.98	5.72	5.67
Mean, in.	0.0013	0.0007	0.0008
Mean, mm	0.032	0.019	0.020
Sorting	2.832	2.221	2.210
Skewness	0.935	0.078	0.065
Kurtosis	0.189	0.634	0.990

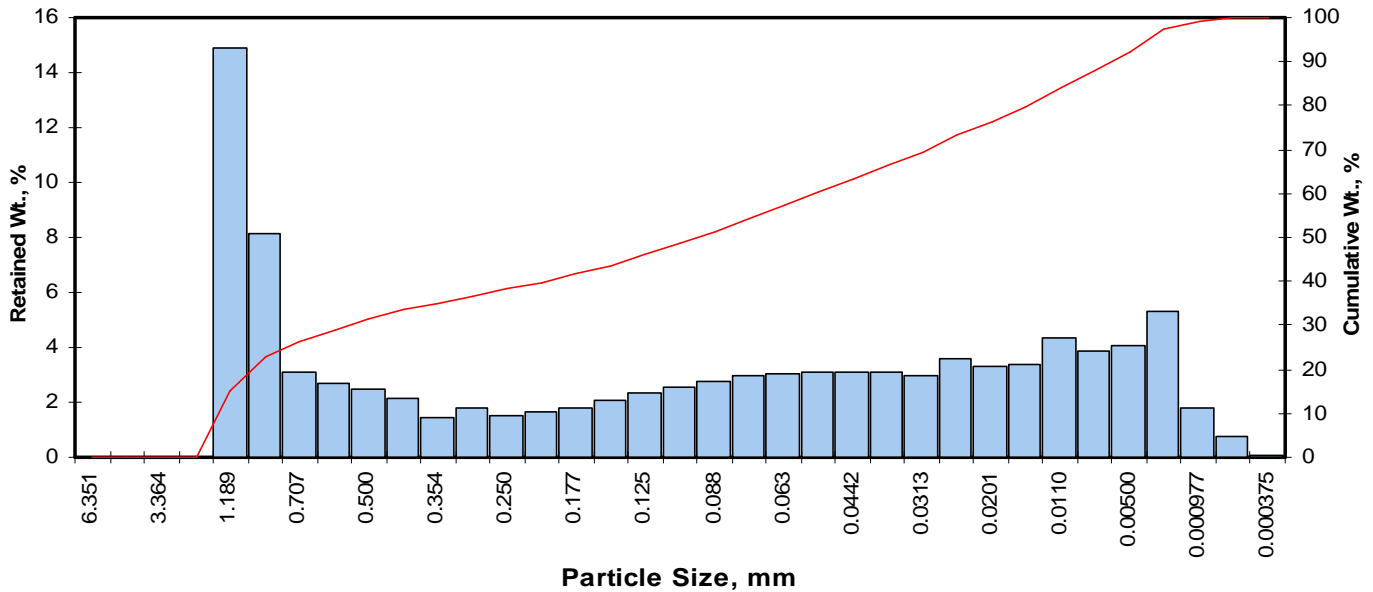
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.48
Fine Sand	200	16.64
Silt	>0.005 mm	62.22
Clay	<0.005 mm	18.66
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-7-37.0-37.5
Depth, ft: 37.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	14.90	14.91	14.91
0.0331	0.841	0.25	20	8.12	8.12	23.03
0.0278	0.707	0.50	25	3.13	3.13	26.16
0.0234	0.595	0.75	30	2.71	2.71	28.87
0.0197	0.500	1.00	35	2.45	2.45	31.32
0.0166	0.420	1.25	40	2.12	2.12	33.44
0.0139	0.354	1.50	45	1.47	1.47	34.92
0.0117	0.297	1.75	50	1.76	1.76	36.68
0.0098	0.250	2.00	60	1.50	1.50	38.18
0.0083	0.210	2.25	70	1.63	1.63	39.81
0.0070	0.177	2.50	80	1.80	1.80	41.61
0.0059	0.149	2.75	100	2.04	2.04	43.65
0.0049	0.125	3.00	120	2.31	2.31	45.96
0.0041	0.105	3.25	140	2.56	2.56	48.52
0.0035	0.088	3.50	170	2.76	2.76	51.28
0.0029	0.074	3.75	200	2.93	2.93	54.21
0.0025	0.063	4.00	230	3.05	3.05	57.27
0.0021	0.053	4.25	270	3.10	3.10	60.37
0.00174	0.0442	4.50	325	3.12	3.12	63.49
0.00146	0.0372	4.75	400	3.08	3.08	66.57
0.00123	0.0313	5.00	450	2.98	2.98	69.55
0.000986	0.0250	5.32	500	3.57	3.57	73.12
0.000790	0.0201	5.64	635	3.29	3.29	76.41
0.000615	0.0156	6.00		3.40	3.40	79.82
0.000435	0.0110	6.50		4.35	4.35	84.17
0.000308	0.00781	7.00		3.84	3.84	88.01
0.000197	0.00500	7.65		4.08	4.08	92.09
0.000077	0.00195	9.00		5.30	5.30	97.39
0.000038	0.000977	10.00		1.76	1.76	99.15
0.000019	0.000488	11.00		0.77	0.77	99.92
0.000015	0.000375	11.38		0.08	0.08	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.75	0.0661	1.680
10	-0.50	0.0556	1.411
16	-0.18	0.0447	1.135
25	0.41	0.0297	0.754
40	2.28	0.0081	0.206
50	3.38	0.0038	0.096
60	4.22	0.0021	0.054
75	5.50	0.0009	0.022
84	6.48	0.0004	0.011
90	7.31	0.0002	0.006
95	8.39	0.0001	0.003

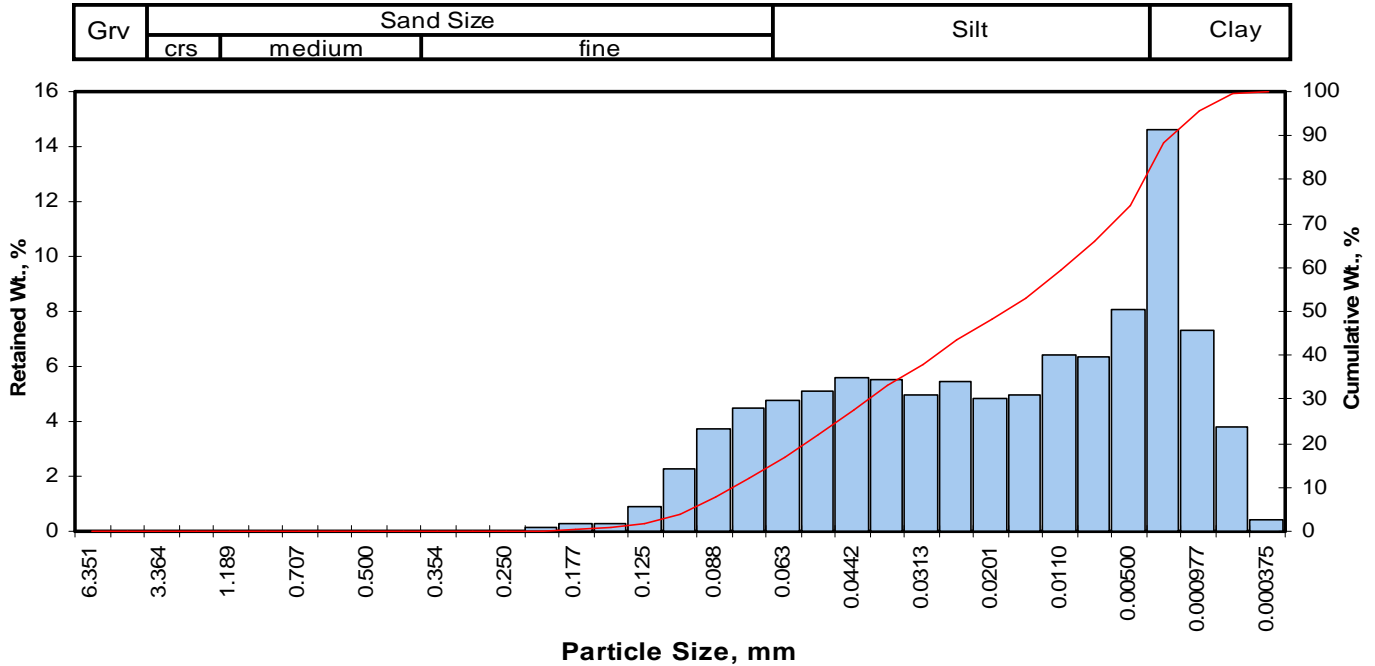
Measure	Trask	Inman	Folk-Ward
Median, phi	3.38	3.38	3.38
Median, in.	0.0038	0.0038	0.0038
Median, mm	0.096	0.096	0.096
Mean, phi	1.37	3.15	3.23
Mean, in.	0.0153	0.0044	0.0042
Mean, mm	0.388	0.113	0.107
Sorting	5.847	3.332	3.050
Skewness	1.346	-0.070	0.012
Kurtosis	0.261	0.371	0.735

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	33.44
Fine Sand	200	20.77
Silt	>0.005 mm	37.88
Clay	<0.005 mm	7.91
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-7-41.5-42.0
Depth, ft: 41.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.01	0.01	0.01
0.0083	0.210	2.25	70	0.12	0.12	0.13
0.0070	0.177	2.50	80	0.25	0.25	0.38
0.0059	0.149	2.75	100	0.31	0.31	0.69
0.0049	0.125	3.00	120	0.87	0.87	1.56
0.0041	0.105	3.25	140	2.30	2.30	3.86
0.0035	0.088	3.50	170	3.75	3.75	7.61
0.0029	0.074	3.75	200	4.47	4.47	12.09
0.0025	0.063	4.00	230	4.73	4.73	16.82
0.0021	0.053	4.25	270	5.08	5.08	21.90
0.00174	0.0442	4.50	325	5.56	5.56	27.46
0.00146	0.0372	4.75	400	5.53	5.53	32.99
0.00123	0.0313	5.00	450	4.98	4.98	37.97
0.000986	0.0250	5.32	500	5.43	5.43	43.40
0.000790	0.0201	5.64	635	4.84	4.84	48.25
0.000615	0.0156	6.00		4.96	4.96	53.21
0.000435	0.0110	6.50		6.38	6.38	59.59
0.000308	0.00781	7.00		6.31	6.31	65.90
0.000197	0.00500	7.65		8.04	8.04	73.94
0.000077	0.00195	9.00		14.60	14.60	88.55
0.000038	0.000977	10.00		7.30	7.30	95.85
0.000019	0.000488	11.00		3.77	3.77	99.62
0.000015	0.000375	11.38		0.38	0.38	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.33	0.0039	0.100
10	3.63	0.0032	0.081
16	3.96	0.0025	0.064
25	4.39	0.0019	0.048
40	5.12	0.0011	0.029
50	5.77	0.0007	0.018
60	6.53	0.0004	0.011
75	7.74	0.0002	0.005
84	8.58	0.0001	0.003
90	9.20	0.0001	0.002
95	9.88	0.0000	0.001

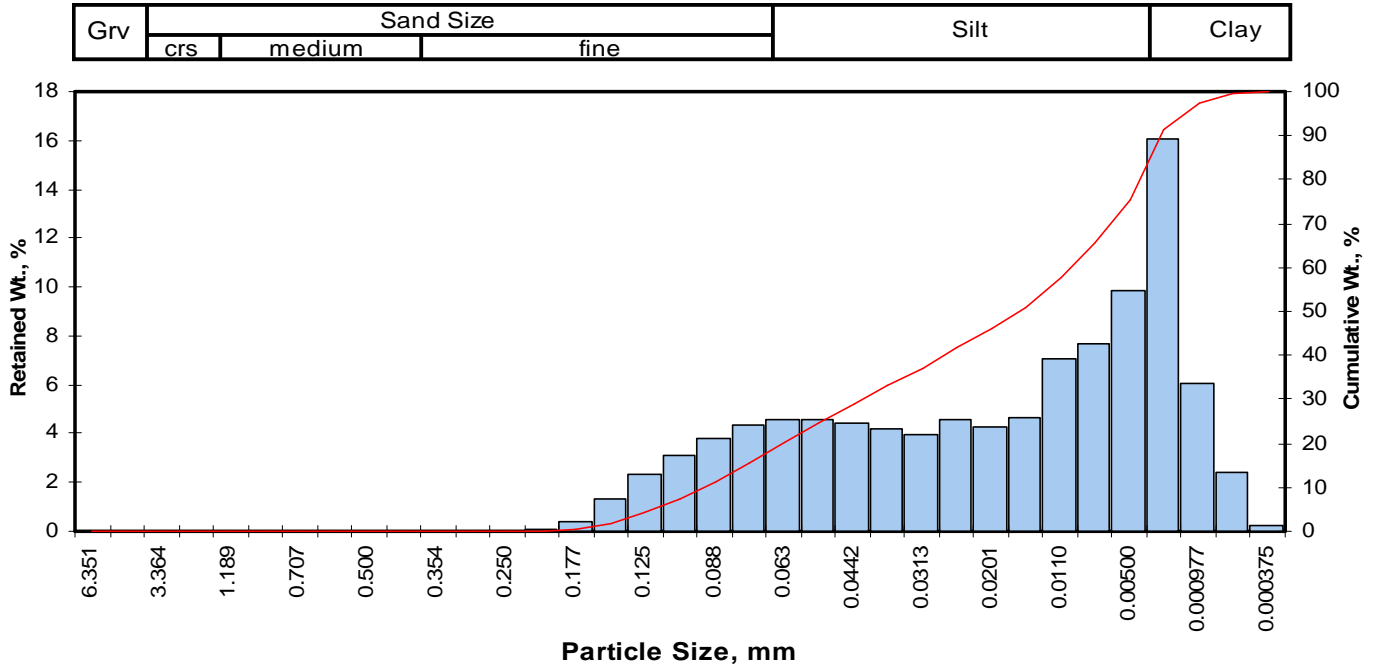
Measure	Trask	Inman	Folk-Ward
Median, phi	5.77	5.77	5.77
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.018	0.018	0.018
Mean, phi	5.25	6.27	6.10
Mean, in.	0.0010	0.0005	0.0006
Mean, mm	0.026	0.013	0.015
Sorting	3.197	2.311	2.149
Skewness	0.813	0.216	0.236
Kurtosis	0.273	0.419	0.801

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	12.09
Silt	>0.005 mm	61.86
Clay	<0.005 mm	26.06
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-7-54.1-54.5
Depth, ft: 54.4



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.05	0.05	0.06
0.0070	0.177	2.50	80	0.42	0.42	0.48
0.0059	0.149	2.75	100	1.33	1.33	1.81
0.0049	0.125	3.00	120	2.32	2.32	4.13
0.0041	0.105	3.25	140	3.14	3.14	7.27
0.0035	0.088	3.50	170	3.82	3.82	11.08
0.0029	0.074	3.75	200	4.35	4.35	15.43
0.0025	0.063	4.00	230	4.61	4.61	20.04
0.0021	0.053	4.25	270	4.58	4.58	24.62
0.00174	0.0442	4.50	325	4.43	4.43	29.05
0.00146	0.0372	4.75	400	4.20	4.20	33.25
0.00123	0.0313	5.00	450	3.92	3.92	37.17
0.000986	0.0250	5.32	500	4.58	4.58	41.75
0.000790	0.0201	5.64	635	4.25	4.25	46.00
0.000615	0.0156	6.00		4.69	4.69	50.69
0.000435	0.0110	6.50		7.05	7.05	57.74
0.000308	0.00781	7.00		7.66	7.66	65.40
0.000197	0.00500	7.65		9.85	9.85	75.25
0.000077	0.00195	9.00		16.10	16.10	91.35
0.000038	0.000977	10.00		6.02	6.02	97.37
0.000019	0.000488	11.00		2.41	2.41	99.78
0.000015	0.000375	11.38		0.22	0.22	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.07	0.0047	0.119
10	3.43	0.0037	0.093
16	3.78	0.0029	0.073
25	4.27	0.0020	0.052
40	5.20	0.0011	0.027
50	5.95	0.0006	0.016
60	6.65	0.0004	0.010
75	7.63	0.0002	0.005
84	8.38	0.0001	0.003
90	8.89	0.0001	0.002
95	9.61	0.0001	0.001

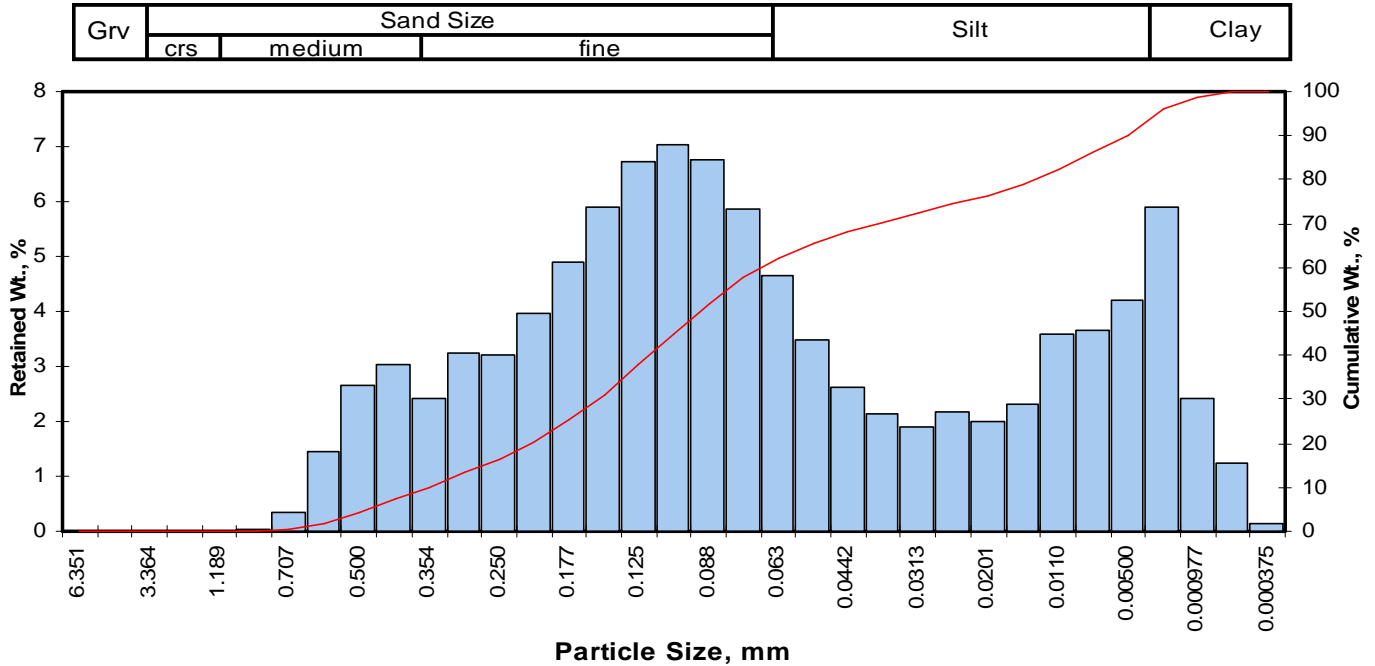
Measure	Trask	Inman	Folk-Ward
Median, phi	5.95	5.95	5.95
Median, in.	0.0006	0.0006	0.0006
Median, mm	0.016	0.016	0.016
Mean, phi	5.14	6.08	6.04
Mean, in.	0.0011	0.0006	0.0006
Mean, mm	0.028	0.015	0.015
Sorting	3.201	2.300	2.141
Skewness	0.998	0.058	0.089
Kurtosis	0.258	0.421	0.798

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	15.43
Silt	>0.005 mm	59.82
Clay	<0.005 mm	24.75
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-7-66.1-66.7
Depth, ft: 66.6



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.02	0.02	0.02
0.0278	0.707	0.50	25	0.35	0.35	0.37
0.0234	0.595	0.75	30	1.44	1.44	1.81
0.0197	0.500	1.00	35	2.67	2.67	4.48
0.0166	0.420	1.25	40	3.05	3.05	7.53
0.0139	0.354	1.50	45	2.40	2.40	9.93
0.0117	0.297	1.75	50	3.24	3.24	13.18
0.0098	0.250	2.00	60	3.21	3.21	16.39
0.0083	0.210	2.25	70	3.98	3.98	20.37
0.0070	0.177	2.50	80	4.88	4.88	25.25
0.0059	0.149	2.75	100	5.91	5.91	31.16
0.0049	0.125	3.00	120	6.72	6.72	37.88
0.0041	0.105	3.25	140	7.05	7.05	44.93
0.0035	0.088	3.50	170	6.75	6.75	51.68
0.0029	0.074	3.75	200	5.87	5.87	57.55
0.0025	0.063	4.00	230	4.65	4.65	62.20
0.0021	0.053	4.25	270	3.47	3.47	65.67
0.00174	0.0442	4.50	325	2.62	2.62	68.29
0.00146	0.0372	4.75	400	2.15	2.15	70.44
0.00123	0.0313	5.00	450	1.89	1.89	72.34
0.000986	0.0250	5.32	500	2.16	2.16	74.50
0.000790	0.0201	5.64	635	2.01	2.01	76.51
0.000615	0.0156	6.00		2.32	2.32	78.83
0.000435	0.0110	6.50		3.60	3.60	82.43
0.000308	0.00781	7.00		3.67	3.67	86.10
0.000197	0.00500	7.65		4.19	4.19	90.29
0.000077	0.00195	9.00		5.91	5.91	96.20
0.000038	0.000977	10.00		2.43	2.43	98.63
0.000019	0.000488	11.00		1.24	1.24	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.04	0.0191	0.486
10	1.51	0.0139	0.352
16	1.97	0.0100	0.255
25	2.49	0.0070	0.178
40	3.08	0.0047	0.119
50	3.44	0.0036	0.092
60	3.88	0.0027	0.068
75	5.40	0.0009	0.024
84	6.71	0.0004	0.010
90	7.60	0.0002	0.005
95	8.73	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	3.44	3.44	3.44
Median, in.	0.0036	0.0036	0.0036
Median, mm	0.092	0.092	0.092
Mean, phi	3.31	4.34	4.04
Mean, in.	0.0040	0.0019	0.0024
Mean, mm	0.101	0.049	0.061
Sorting	2.744	2.372	2.350
Skewness	0.704	0.381	0.379
Kurtosis	0.223	0.619	1.081

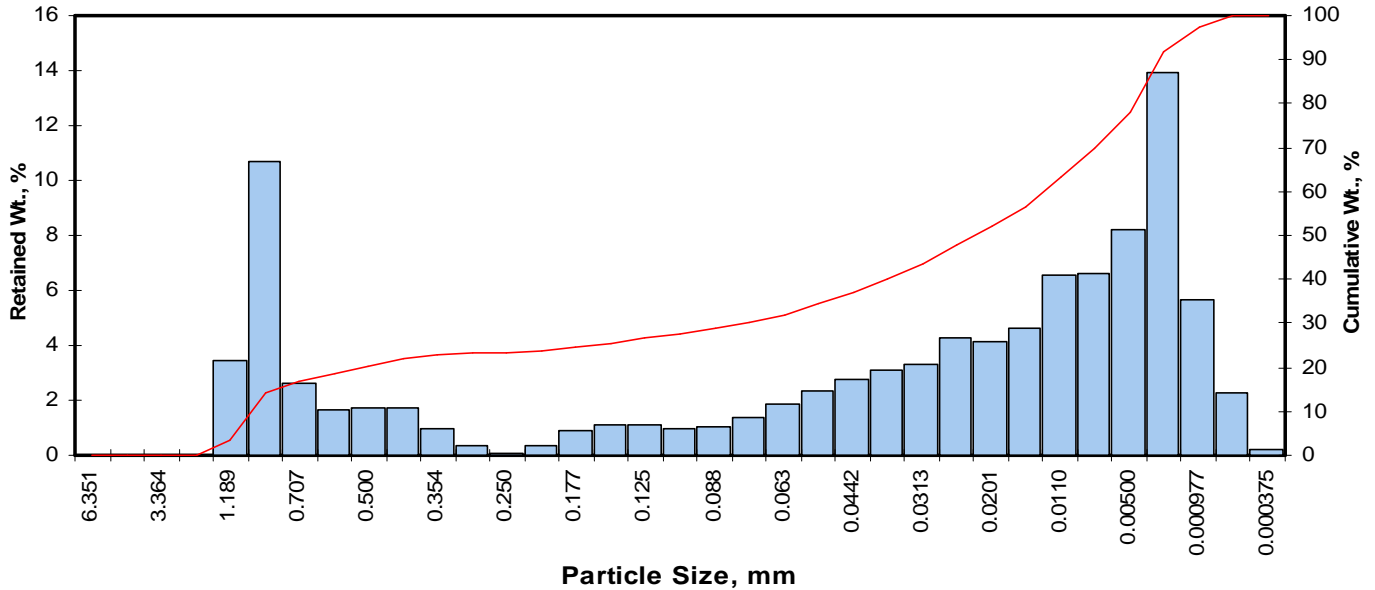
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.53
Fine Sand	200	50.02
Silt	>0.005 mm	32.74
Clay	<0.005 mm	9.71
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-7-83.2-83.6
Depth, ft: 83.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	3.42	3.42	3.42
0.0331	0.841	0.25	20	10.70	10.70	14.12
0.0278	0.707	0.50	25	2.63	2.63	16.75
0.0234	0.595	0.75	30	1.67	1.67	18.42
0.0197	0.500	1.00	35	1.72	1.72	20.15
0.0166	0.420	1.25	40	1.73	1.73	21.88
0.0139	0.354	1.50	45	0.95	0.95	22.83
0.0117	0.297	1.75	50	0.37	0.37	23.20
0.0098	0.250	2.00	60	0.08	0.08	23.27
0.0083	0.210	2.25	70	0.37	0.37	23.64
0.0070	0.177	2.50	80	0.87	0.87	24.51
0.0059	0.149	2.75	100	1.13	1.13	25.64
0.0049	0.125	3.00	120	1.11	1.11	26.75
0.0041	0.105	3.25	140	0.97	0.97	27.72
0.0035	0.088	3.50	170	1.02	1.02	28.74
0.0029	0.074	3.75	200	1.38	1.38	30.12
0.0025	0.063	4.00	230	1.89	1.89	32.01
0.0021	0.053	4.25	270	2.34	2.34	34.35
0.00174	0.0442	4.50	325	2.77	2.77	37.12
0.00146	0.0372	4.75	400	3.11	3.11	40.24
0.00123	0.0313	5.00	450	3.33	3.33	43.57
0.000986	0.0250	5.32	500	4.26	4.26	47.83
0.000790	0.0201	5.64	635	4.16	4.16	51.99
0.000615	0.0156	6.00		4.61	4.61	56.60
0.000435	0.0110	6.50		6.58	6.58	63.18
0.000308	0.00781	7.00		6.63	6.63	69.81
0.000197	0.00500	7.65		8.19	8.19	78.00
0.000077	0.00195	9.00		13.90	13.90	91.91
0.000038	0.000977	10.00		5.62	5.62	97.53
0.000019	0.000488	11.00		2.26	2.26	99.79
0.000015	0.000375	11.38		0.21	0.21	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.18	0.0445	1.130
10	0.06	0.0378	0.961
16	0.43	0.0293	0.743
25	2.61	0.0065	0.164
40	4.73	0.0015	0.038
50	5.49	0.0009	0.022
60	6.26	0.0005	0.013
75	7.41	0.0002	0.006
84	8.23	0.0001	0.003
90	8.81	0.0001	0.002
95	9.55	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.49	5.49	5.49
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.022	0.022	0.022
Mean, phi	3.56	4.33	4.71
Mean, in.	0.0033	0.0020	0.0015
Mean, mm	0.085	0.050	0.038
Sorting	5.279	3.900	3.424
Skewness	1.394	-0.297	-0.231
Kurtosis	0.082	0.247	0.830

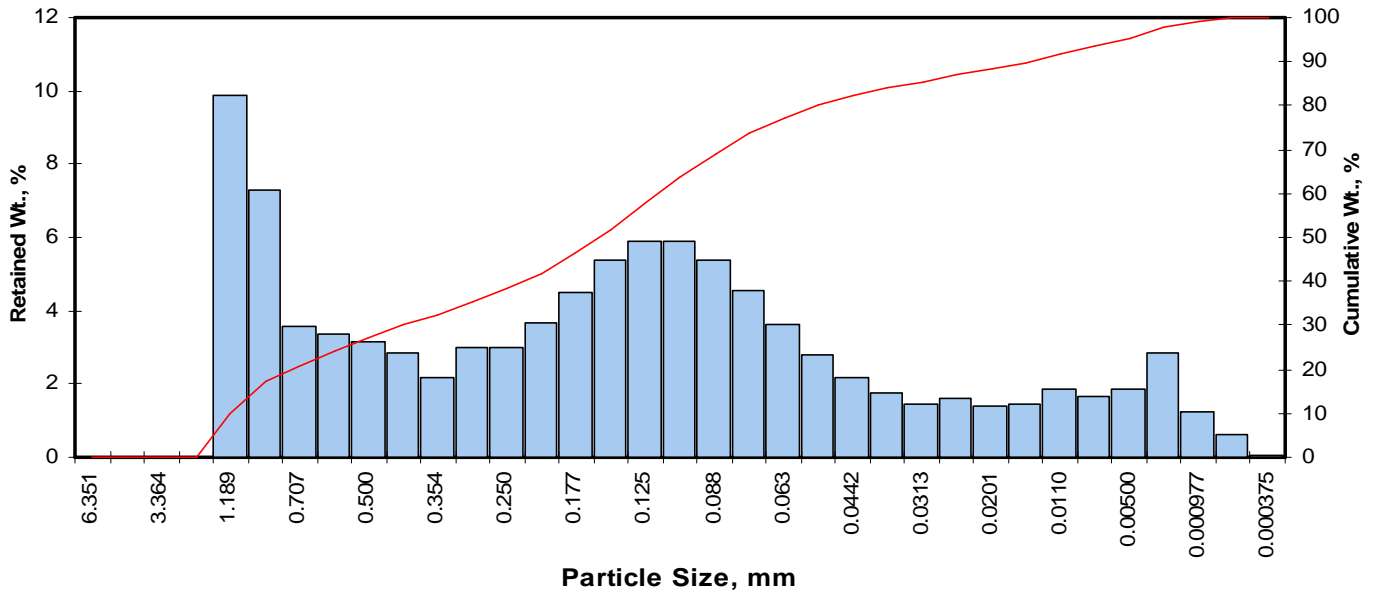
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	21.88
Fine Sand	200	8.25
Silt	>0.005 mm	47.88
Clay	<0.005 mm	22.00
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-M-203-8.0-8.4
Depth, ft: 8.0-8.4

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	9.86	9.86	9.86
0.0331	0.841	0.25	20	7.29	7.29	17.15
0.0278	0.707	0.50	25	3.55	3.55	20.71
0.0234	0.595	0.75	30	3.37	3.37	24.08
0.0197	0.500	1.00	35	3.16	3.16	27.24
0.0166	0.420	1.25	40	2.85	2.85	30.09
0.0139	0.354	1.50	45	2.17	2.17	32.26
0.0117	0.297	1.75	50	3.02	3.02	35.28
0.0098	0.250	2.00	60	3.01	3.01	38.29
0.0083	0.210	2.25	70	3.68	3.68	41.97
0.0070	0.177	2.50	80	4.49	4.49	46.46
0.0059	0.149	2.75	100	5.36	5.36	51.82
0.0049	0.125	3.00	120	5.90	5.90	57.73
0.0041	0.105	3.25	140	5.91	5.91	63.64
0.0035	0.088	3.50	170	5.40	5.40	69.04
0.0029	0.074	3.75	200	4.55	4.55	73.59
0.0025	0.063	4.00	230	3.62	3.62	77.21
0.0021	0.053	4.25	270	2.80	2.80	80.01
0.00174	0.0442	4.50	325	2.18	2.18	82.19
0.00146	0.0372	4.75	400	1.75	1.75	83.94
0.00123	0.0313	5.00	450	1.45	1.45	85.39
0.000986	0.0250	5.32	500	1.58	1.58	86.97
0.000790	0.0201	5.64	635	1.40	1.40	88.37
0.000615	0.0156	6.00		1.44	1.44	89.81
0.000435	0.0110	6.50		1.86	1.86	91.67
0.000308	0.00781	7.00		1.67	1.67	93.35
0.000197	0.00500	7.65		1.86	1.86	95.21
0.000077	0.00195	9.00		2.84	2.84	98.05
0.000038	0.000977	10.00		1.26	1.26	99.31
0.000019	0.000488	11.00		0.63	0.63	99.94
0.000015	0.000375	11.38		0.06	0.06	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.62	0.0605	1.537
10	-0.24	0.0465	1.181
16	0.17	0.0350	0.888
25	0.82	0.0223	0.565
40	2.12	0.0091	0.231
50	2.66	0.0062	0.158
60	3.10	0.0046	0.117
75	3.85	0.0027	0.069
84	4.76	0.0015	0.037
90	6.05	0.0006	0.015
95	7.57	0.0002	0.005

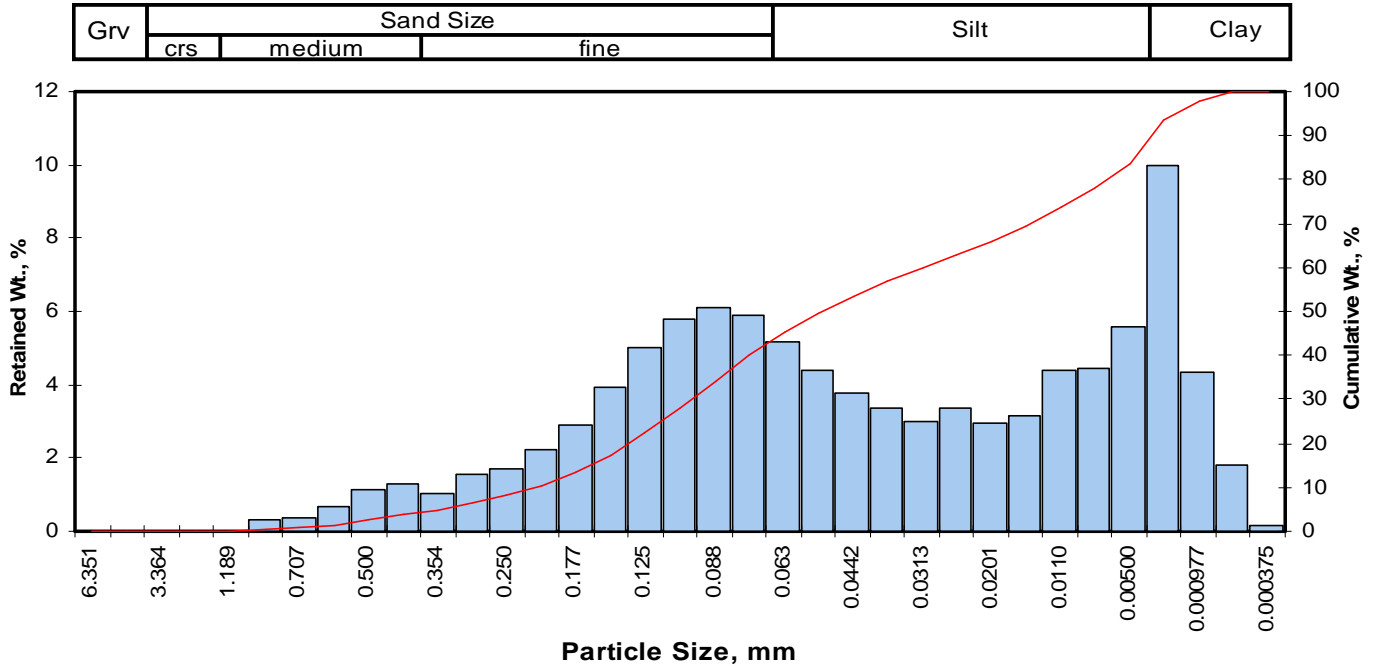
Measure	Trask	Inman	Folk-Ward
Median, phi	2.66	2.66	2.66
Median, in.	0.0062	0.0062	0.0062
Median, mm	0.158	0.158	0.158
Mean, phi	1.66	2.47	2.53
Mean, in.	0.0125	0.0071	0.0068
Mean, mm	0.317	0.181	0.173
Sorting	2.852	2.295	2.389
Skewness	1.257	-0.087	0.056
Kurtosis	0.213	0.785	1.110

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	30.09
Fine Sand	200	43.50
Silt	>0.005 mm	21.62
Clay	<0.005 mm	4.79
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-M-203-13.6-14.0
Depth, ft: 13.9



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.01	0.01	0.01
0.0331	0.841	0.25	20	0.32	0.32	0.33
0.0278	0.707	0.50	25	0.37	0.37	0.70
0.0234	0.595	0.75	30	0.67	0.67	1.37
0.0197	0.500	1.00	35	1.12	1.12	2.49
0.0166	0.420	1.25	40	1.29	1.29	3.78
0.0139	0.354	1.50	45	1.05	1.05	4.83
0.0117	0.297	1.75	50	1.56	1.56	6.39
0.0098	0.250	2.00	60	1.72	1.72	8.11
0.0083	0.210	2.25	70	2.23	2.23	10.34
0.0070	0.177	2.50	80	2.91	2.91	13.25
0.0059	0.149	2.75	100	3.95	3.95	17.20
0.0049	0.125	3.00	120	5.02	5.02	22.23
0.0041	0.105	3.25	140	5.80	5.80	28.03
0.0035	0.088	3.50	170	6.11	6.11	34.14
0.0029	0.074	3.75	200	5.87	5.87	40.02
0.0025	0.063	4.00	230	5.19	5.19	45.21
0.0021	0.053	4.25	270	4.37	4.37	49.58
0.00174	0.0442	4.50	325	3.77	3.77	53.35
0.00146	0.0372	4.75	400	3.37	3.37	56.73
0.00123	0.0313	5.00	450	3.02	3.02	59.75
0.000986	0.0250	5.32	500	3.36	3.36	63.11
0.000790	0.0201	5.64	635	2.97	2.97	66.08
0.000615	0.0156	6.00		3.16	3.16	69.24
0.000435	0.0110	6.50		4.41	4.41	73.66
0.000308	0.00781	7.00		4.44	4.44	78.10
0.000197	0.00500	7.65		5.59	5.59	83.69
0.000077	0.00195	9.00		10.00	10.01	93.70
0.000038	0.000977	10.00		4.35	4.35	98.05
0.000019	0.000488	11.00		1.79	1.79	99.84
0.000015	0.000375	11.38		0.16	0.16	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.53	0.0137	0.347
10	2.21	0.0085	0.216
16	2.67	0.0062	0.157
25	3.12	0.0045	0.115
40	3.75	0.0029	0.074
50	4.28	0.0020	0.052
60	5.02	0.0012	0.031
75	6.65	0.0004	0.010
84	7.69	0.0002	0.005
90	8.50	0.0001	0.003
95	9.30	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.28	4.28	4.28
Median, in.	0.0020	0.0020	0.0020
Median, mm	0.052	0.052	0.052
Mean, phi	4.00	5.18	4.88
Mean, in.	0.0025	0.0011	0.0013
Mean, mm	0.063	0.028	0.034
Sorting	3.401	2.507	2.431
Skewness	0.656	0.360	0.326
Kurtosis	0.247	0.550	0.902

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.78
Fine Sand	200	36.24
Silt	>0.005 mm	43.67
Clay	<0.005 mm	16.31
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3D

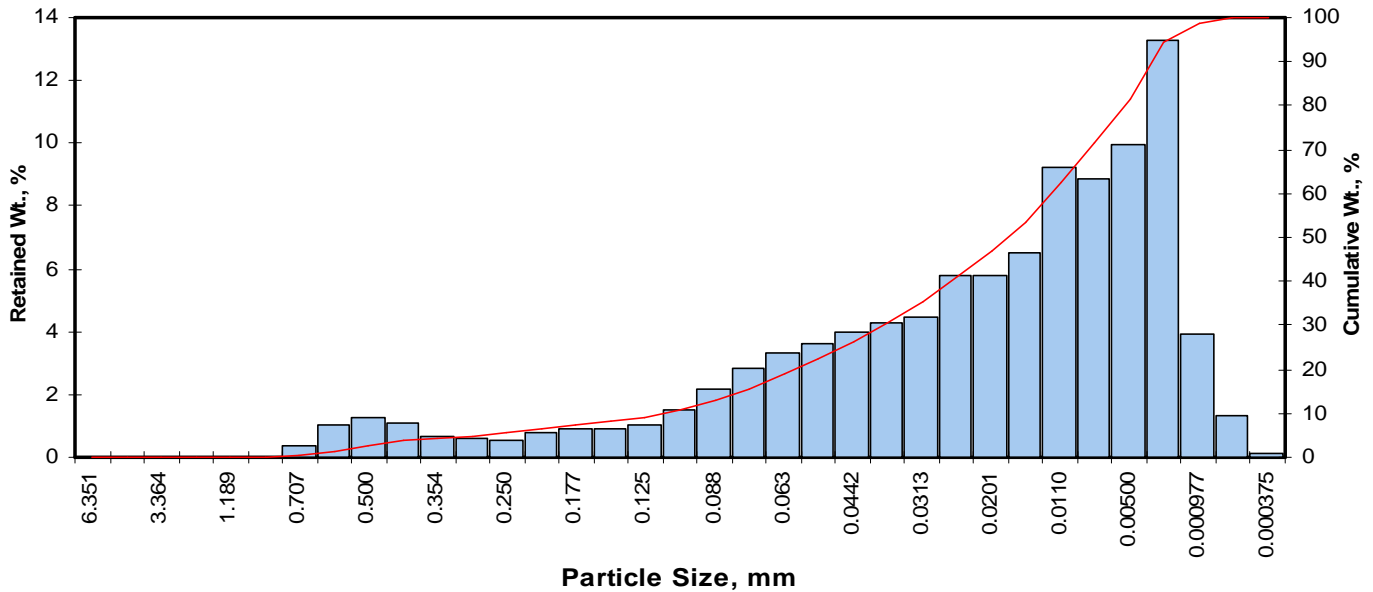
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-M-203-18.0-18.4	18.0-18.2	Silt	0.018	0.00	0.00	3.68	11.93	65.69	18.70	84.38
PT-M-203-31.2-31.6	31.2-31.4	Silt	0.021	0.00	0.00	0.00	15.10	65.07	19.83	84.90
PT-M-203-41.3-41.7	41.3-41.5	Fine sand	0.072	0.00	0.00	22.79	26.77	36.90	13.54	50.44
PT-M-203-50.7-51.0	50.7-50.9	Silt	0.017	0.00	0.00	5.02	13.90	62.87	18.21	81.08
PT-RIDB19-72.3-72.6	72.3-72.6	Silt	0.074	0.00	0.00	2.89	46.77	42.11	8.23	50.33
PT-RIDB19-77.4-77.8	77.4-77.6	Silt	0.046	0.00	0.00	3.03	33.94	52.25	10.79	63.04
PT-RIDB19-84.1-84.5	84.1-84.3	Fine sand	0.058	0.00	0.00	7.44	35.01	48.28	9.28	57.55
PT-RIDB12-28.0-28.5	28.0-28.3	Fine sand	0.086	0.00	0.00	28.22	24.15	36.69	10.94	47.63

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-M-203-18.0-18.4
Depth, ft: 18.0-18.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.02	0.02	0.02
0.0278	0.707	0.50	25	0.34	0.34	0.36
0.0234	0.595	0.75	30	1.02	1.02	1.38
0.0197	0.500	1.00	35	1.24	1.24	2.62
0.0166	0.420	1.25	40	1.06	1.06	3.68
0.0139	0.354	1.50	45	0.64	0.64	4.32
0.0117	0.297	1.75	50	0.62	0.62	4.94
0.0098	0.250	2.00	60	0.57	0.57	5.51
0.0083	0.210	2.25	70	0.78	0.78	6.29
0.0070	0.177	2.50	80	0.89	0.89	7.18
0.0059	0.149	2.75	100	0.88	0.88	8.06
0.0049	0.125	3.00	120	1.04	1.04	9.10
0.0041	0.105	3.25	140	1.51	1.51	10.61
0.0035	0.088	3.50	170	2.18	2.18	12.79
0.0029	0.074	3.75	200	2.82	2.82	15.62
0.0025	0.063	4.00	230	3.29	3.29	18.91
0.0021	0.053	4.25	270	3.62	3.62	22.53
0.00174	0.0442	4.50	325	3.97	3.97	26.50
0.00146	0.0372	4.75	400	4.29	4.29	30.79
0.00123	0.0313	5.00	450	4.48	4.48	35.27
0.000986	0.0250	5.32	500	5.77	5.77	41.04
0.000790	0.0201	5.64	635	5.77	5.77	46.81
0.000615	0.0156	6.00		6.49	6.49	53.31
0.000435	0.0110	6.50		9.20	9.20	62.51
0.000308	0.00781	7.00		8.85	8.85	71.36
0.000197	0.00500	7.65		9.94	9.94	81.30
0.000077	0.00195	9.00		13.30	13.30	94.61
0.000038	0.000977	10.00		3.94	3.94	98.55
0.000019	0.000488	11.00		1.33	1.33	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.78	0.0115	0.292
10	3.15	0.0044	0.113
16	3.78	0.0029	0.073
25	4.41	0.0019	0.047
40	5.26	0.0010	0.026
50	5.82	0.0007	0.018
60	6.36	0.0005	0.012
75	7.24	0.0003	0.007
84	7.92	0.0002	0.004
90	8.53	0.0001	0.003
95	9.10	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.82	5.82	5.82
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.018	0.018	0.018
Mean, phi	5.22	5.85	5.84
Mean, in.	0.0011	0.0007	0.0007
Mean, mm	0.027	0.017	0.017
Sorting	2.667	2.070	2.145
Skewness	0.997	0.016	-0.044
Kurtosis	0.184	0.769	1.061

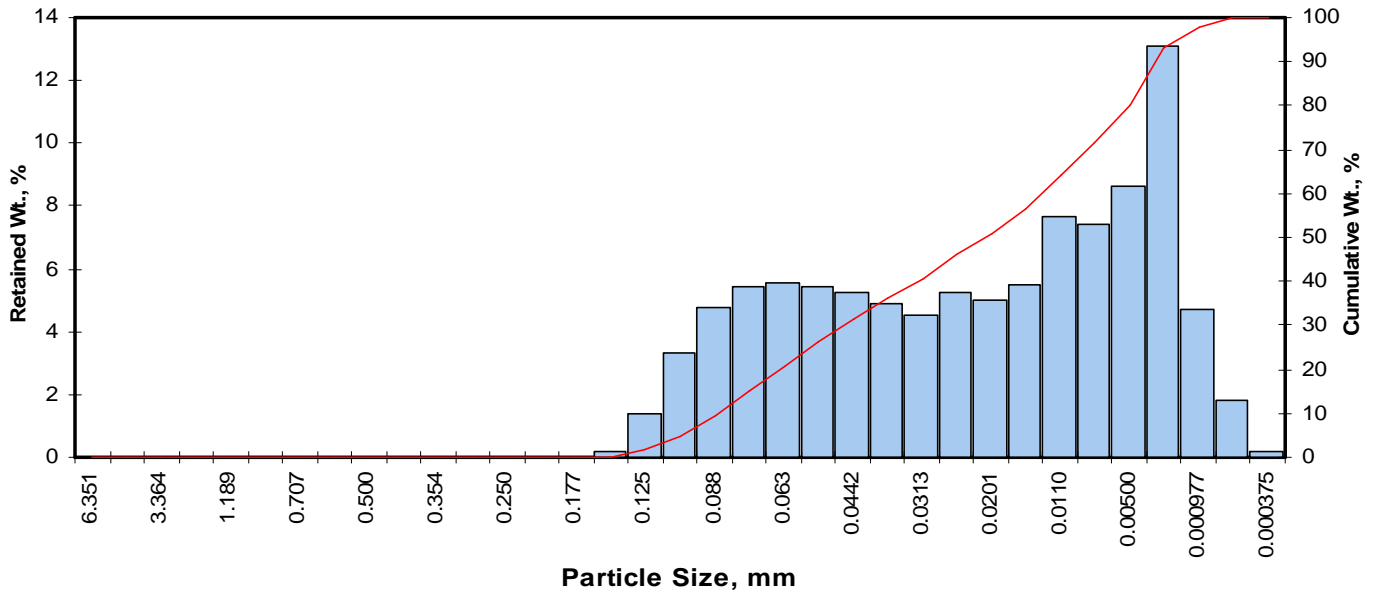
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.68
Fine Sand	200	11.93
Silt	>0.005 mm	65.69
Clay	<0.005 mm	18.70
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-M-203-31.2-31.6
Depth, ft: 31.2-31.4

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.20	0.20	0.20
0.0049	0.125	3.00	120	1.40	1.40	1.60
0.0041	0.105	3.25	140	3.31	3.31	4.91
0.0035	0.088	3.50	170	4.77	4.77	9.68
0.0029	0.074	3.75	200	5.42	5.42	15.10
0.0025	0.063	4.00	230	5.56	5.56	20.66
0.0021	0.053	4.25	270	5.46	5.46	26.12
0.00174	0.0442	4.50	325	5.23	5.23	31.35
0.00146	0.0372	4.75	400	4.88	4.88	36.23
0.00123	0.0313	5.00	450	4.50	4.50	40.73
0.000986	0.0250	5.32	500	5.28	5.28	46.01
0.000790	0.0201	5.64	635	4.99	4.99	51.00
0.000615	0.0156	6.00		5.47	5.47	56.47
0.000435	0.0110	6.50		7.65	7.65	64.12
0.000308	0.00781	7.00		7.40	7.40	71.52
0.000197	0.00500	7.65		8.65	8.65	80.17
0.000077	0.00195	9.00		13.10	13.10	93.27
0.000038	0.000977	10.00		4.73	4.73	98.00
0.000019	0.000488	11.00		1.83	1.83	99.83
0.000015	0.000375	11.38		0.17	0.17	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.25	0.0041	0.105
10	3.51	0.0034	0.087
16	3.79	0.0028	0.072
25	4.20	0.0021	0.054
40	4.96	0.0013	0.032
50	5.58	0.0008	0.021
60	6.23	0.0005	0.013
75	7.26	0.0003	0.007
84	8.04	0.0001	0.004
90	8.66	0.0001	0.002
95	9.37	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.58	5.58	5.58
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	5.04	5.92	5.80
Mean, in.	0.0012	0.0007	0.0007
Mean, mm	0.030	0.017	0.018
Sorting	2.889	2.125	1.989
Skewness	0.899	0.160	0.200
Kurtosis	0.282	0.438	0.818

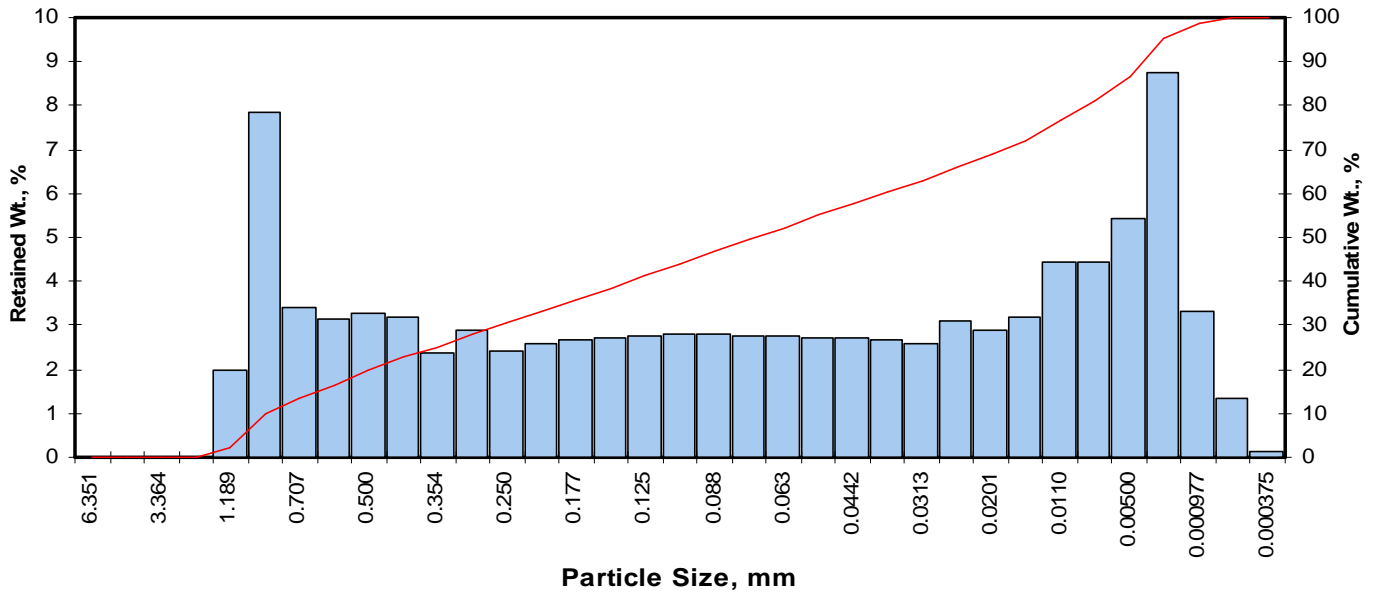
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	15.10
Silt	>0.005 mm	65.07
Clay	<0.005 mm	19.83
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-M-203-41.3-41.7
Depth, ft: 41.3-41.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.98	1.98	1.98
0.0331	0.841	0.25	20	7.86	7.86	9.84
0.0278	0.707	0.50	25	3.39	3.39	13.23
0.0234	0.595	0.75	30	3.13	3.13	16.36
0.0197	0.500	1.00	35	3.26	3.26	19.62
0.0166	0.420	1.25	40	3.17	3.17	22.79
0.0139	0.354	1.50	45	2.36	2.36	25.14
0.0117	0.297	1.75	50	2.87	2.87	28.01
0.0098	0.250	2.00	60	2.43	2.43	30.44
0.0083	0.210	2.25	70	2.59	2.59	33.03
0.0070	0.177	2.50	80	2.69	2.69	35.72
0.0059	0.149	2.75	100	2.72	2.72	38.44
0.0049	0.125	3.00	120	2.75	2.75	41.19
0.0041	0.105	3.25	140	2.79	2.79	43.98
0.0035	0.088	3.50	170	2.80	2.80	46.78
0.0029	0.074	3.75	200	2.78	2.78	49.56
0.0025	0.063	4.00	230	2.74	2.74	52.30
0.0021	0.053	4.25	270	2.70	2.70	55.00
0.00174	0.0442	4.50	325	2.70	2.70	57.70
0.00146	0.0372	4.75	400	2.66	2.66	60.36
0.00123	0.0313	5.00	450	2.57	2.57	62.93
0.000986	0.0250	5.32	500	3.09	3.09	66.02
0.000790	0.0201	5.64	635	2.91	2.91	68.93
0.000615	0.0156	6.00		3.17	3.17	72.10
0.000435	0.0110	6.50		4.46	4.46	76.55
0.000308	0.00781	7.00		4.46	4.46	81.01
0.000197	0.00500	7.65		5.45	5.45	86.46
0.000077	0.00195	9.00		8.74	8.74	95.20
0.000038	0.000977	10.00		3.32	3.32	98.52
0.000019	0.000488	11.00		1.35	1.35	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.06	0.0410	1.041
10	0.26	0.0328	0.834
16	0.72	0.0239	0.606
25	1.48	0.0141	0.357
40	2.89	0.0053	0.135
50	3.79	0.0028	0.072
60	4.72	0.0015	0.038
75	6.33	0.0005	0.012
84	7.35	0.0002	0.006
90	8.19	0.0001	0.003
95	8.97	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	3.79	3.79	3.79
Median, in.	0.0028	0.0028	0.0028
Median, mm	0.072	0.072	0.072
Mean, phi	2.44	4.04	3.96
Mean, in.	0.0073	0.0024	0.0025
Mean, mm	0.185	0.061	0.064
Sorting	5.354	3.316	3.026
Skewness	0.923	0.075	0.111
Kurtosis	0.208	0.361	0.764

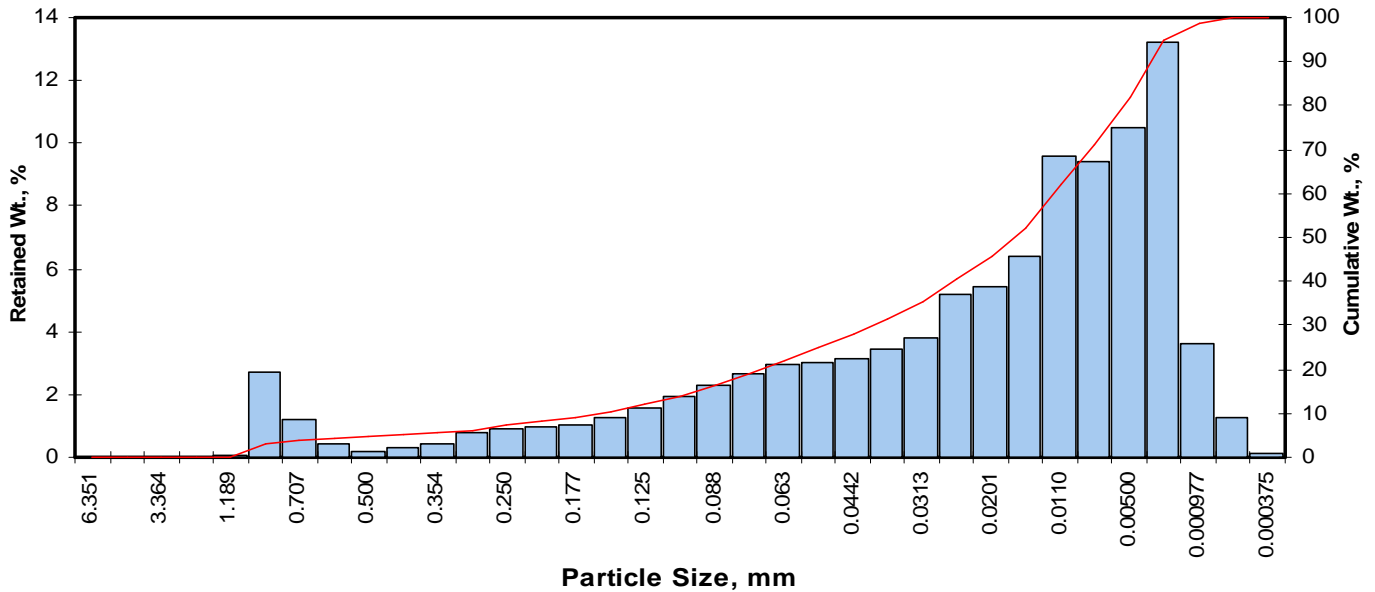
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	22.79
Fine Sand	200	26.77
Silt	>0.005 mm	36.90
Clay	<0.005 mm	13.54
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-M-203-50.7-51.0
Depth, ft: 50.7-50.9

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.09	0.09	0.09
0.0331	0.841	0.25	20	2.73	2.73	2.82
0.0278	0.707	0.50	25	1.22	1.22	4.04
0.0234	0.595	0.75	30	0.45	0.45	4.49
0.0197	0.500	1.00	35	0.20	0.20	4.69
0.0166	0.420	1.25	40	0.33	0.33	5.02
0.0139	0.354	1.50	45	0.43	0.43	5.45
0.0117	0.297	1.75	50	0.80	0.80	6.25
0.0098	0.250	2.00	60	0.88	0.88	7.13
0.0083	0.210	2.25	70	0.99	0.99	8.12
0.0070	0.177	2.50	80	1.04	1.04	9.16
0.0059	0.149	2.75	100	1.24	1.24	10.40
0.0049	0.125	3.00	120	1.59	1.59	11.99
0.0041	0.105	3.25	140	1.95	1.95	13.94
0.0035	0.088	3.50	170	2.30	2.30	16.24
0.0029	0.074	3.75	200	2.68	2.68	18.92
0.0025	0.063	4.00	230	2.94	2.94	21.86
0.0021	0.053	4.25	270	3.00	3.00	24.86
0.00174	0.0442	4.50	325	3.12	3.12	27.98
0.00146	0.0372	4.75	400	3.43	3.43	31.41
0.00123	0.0313	5.00	450	3.82	3.82	35.23
0.000986	0.0250	5.32	500	5.20	5.20	40.43
0.000790	0.0201	5.64	635	5.43	5.43	45.86
0.000615	0.0156	6.00		6.40	6.40	52.26
0.000435	0.0110	6.50		9.59	9.59	61.86
0.000308	0.00781	7.00		9.43	9.43	71.29
0.000197	0.00500	7.65		10.50	10.50	81.79
0.000077	0.00195	9.00		13.20	13.20	94.99
0.000038	0.000977	10.00		3.64	3.64	98.63
0.000019	0.000488	11.00		1.26	1.26	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.24	0.0167	0.425
10	2.67	0.0062	0.157
16	3.47	0.0035	0.090
25	4.26	0.0021	0.052
40	5.29	0.0010	0.025
50	5.87	0.0007	0.017
60	6.40	0.0005	0.012
75	7.23	0.0003	0.007
84	7.87	0.0002	0.004
90	8.49	0.0001	0.003
95	9.00	0.0001	0.002

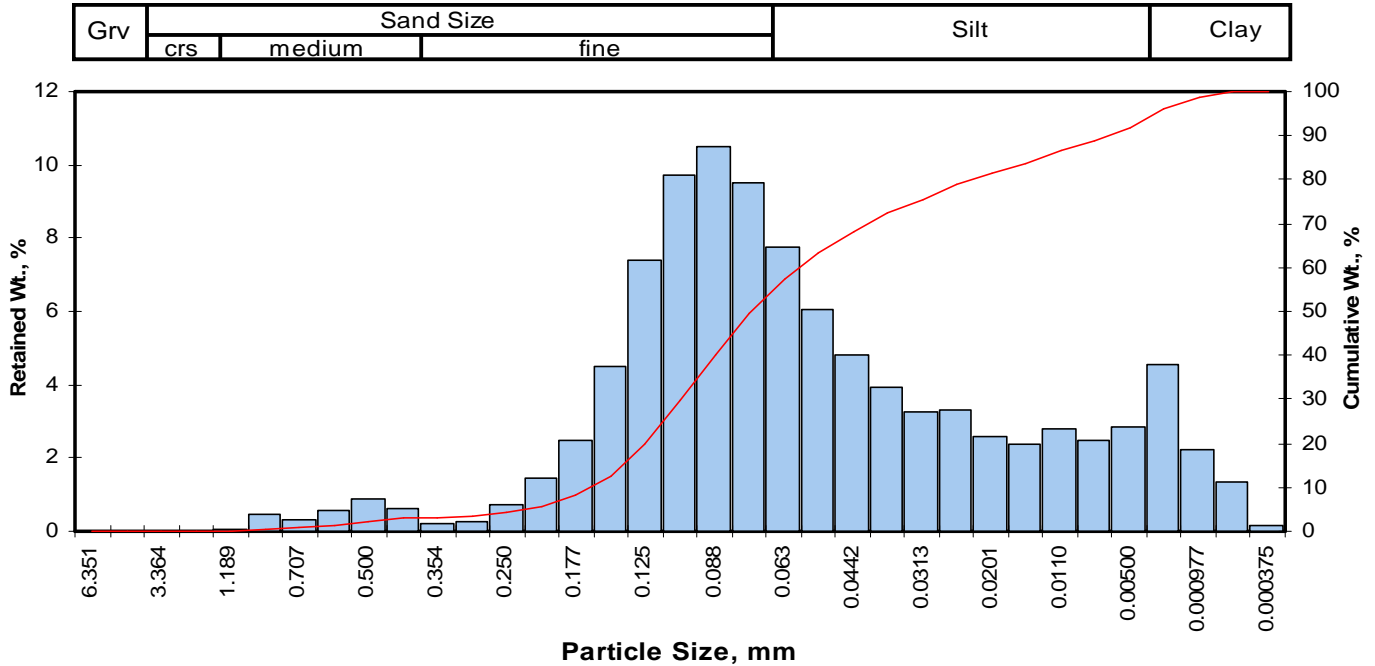
Measure	Trask	Inman	Folk-Ward
Median, phi	5.87	5.87	5.87
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	5.09	5.67	5.74
Mean, in.	0.0012	0.0008	0.0007
Mean, mm	0.029	0.020	0.019
Sorting	2.796	2.199	2.276
Skewness	1.093	-0.091	-0.142
Kurtosis	0.147	0.766	1.073

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.02
Fine Sand	200	13.90
Silt	>0.005 mm	62.87
Clay	<0.005 mm	18.21
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB19-72.3-72.6
Depth, ft: 72.3-72.6



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.08	0.08	0.08
0.0331	0.841	0.25	20	0.45	0.45	0.53
0.0278	0.707	0.50	25	0.32	0.32	0.85
0.0234	0.595	0.75	30	0.58	0.58	1.43
0.0197	0.500	1.00	35	0.86	0.86	2.28
0.0166	0.420	1.25	40	0.61	0.61	2.89
0.0139	0.354	1.50	45	0.20	0.20	3.09
0.0117	0.297	1.75	50	0.27	0.27	3.36
0.0098	0.250	2.00	60	0.74	0.74	4.10
0.0083	0.210	2.25	70	1.46	1.46	5.56
0.0070	0.177	2.50	80	2.47	2.47	8.03
0.0059	0.149	2.75	100	4.52	4.52	12.55
0.0049	0.125	3.00	120	7.38	7.38	19.92
0.0041	0.105	3.25	140	9.73	9.72	29.65
0.0035	0.088	3.50	170	10.50	10.49	40.14
0.0029	0.074	3.75	200	9.53	9.52	49.67
0.0025	0.063	4.00	230	7.76	7.76	57.42
0.0021	0.053	4.25	270	6.05	6.05	63.47
0.00174	0.0442	4.50	325	4.80	4.80	68.27
0.00146	0.0372	4.75	400	3.94	3.94	72.21
0.00123	0.0313	5.00	450	3.24	3.24	75.44
0.000986	0.0250	5.32	500	3.29	3.29	78.73
0.000790	0.0201	5.64	635	2.57	2.57	81.30
0.000615	0.0156	6.00		2.37	2.37	83.67
0.000435	0.0110	6.50		2.79	2.79	86.46
0.000308	0.00781	7.00		2.47	2.47	88.93
0.000197	0.00500	7.65		2.85	2.85	91.77
0.000077	0.00195	9.00		4.55	4.55	96.32
0.000038	0.000977	10.00		2.22	2.22	98.54
0.000019	0.000488	11.00		1.32	1.32	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				100.10	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.15	0.0088	0.225
10	2.61	0.0065	0.164
16	2.87	0.0054	0.137
25	3.13	0.0045	0.114
40	3.50	0.0035	0.089
50	3.76	0.0029	0.074
60	4.11	0.0023	0.058
75	4.97	0.0013	0.032
84	6.06	0.0006	0.015
90	7.24	0.0003	0.007
95	8.61	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	3.76	3.76	3.76
Median, in.	0.0029	0.0029	0.0029
Median, mm	0.074	0.074	0.074
Mean, phi	3.77	4.46	4.23
Mean, in.	0.0029	0.0018	0.0021
Mean, mm	0.073	0.045	0.053
Sorting	1.889	1.596	1.776
Skewness	0.819	0.440	0.471
Kurtosis	0.261	1.021	1.441

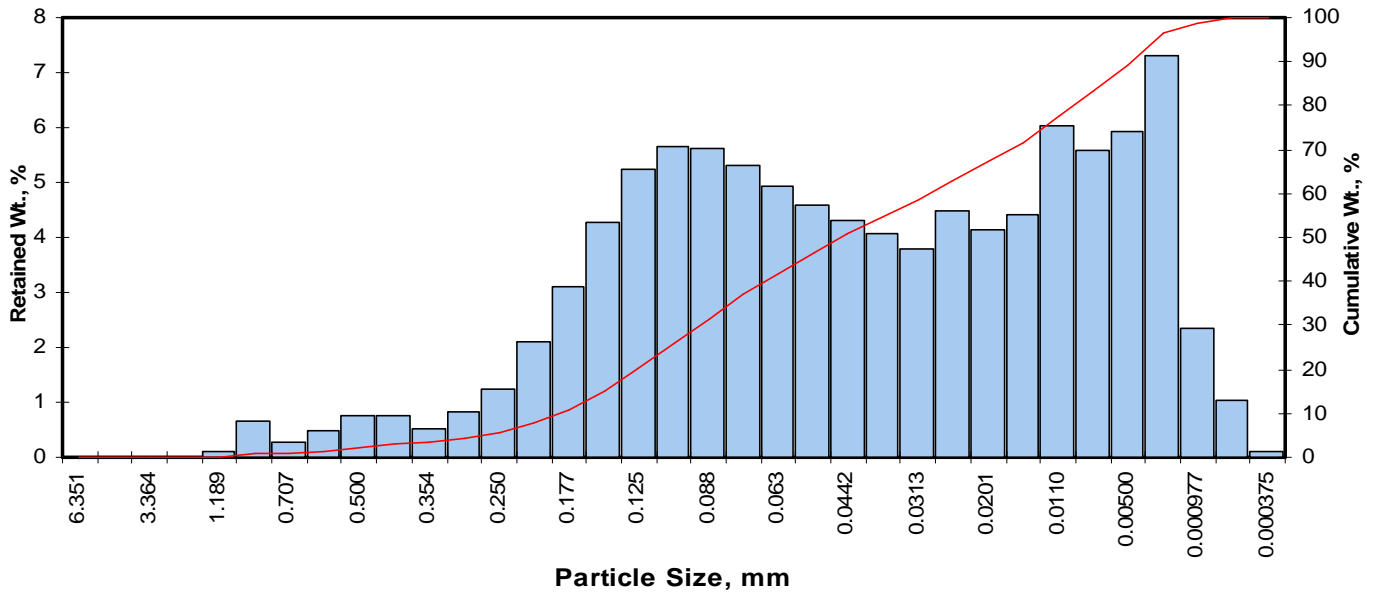
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.89
Fine Sand	200	46.77
Silt	>0.005 mm	42.11
Clay	<0.005 mm	8.23
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB19-77.4-77.8
Depth, ft: 77.4-77.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.09	0.09	0.09
0.0331	0.841	0.25	20	0.65	0.65	0.74
0.0278	0.707	0.50	25	0.29	0.29	1.03
0.0234	0.595	0.75	30	0.48	0.48	1.51
0.0197	0.500	1.00	35	0.76	0.76	2.27
0.0166	0.420	1.25	40	0.76	0.76	3.03
0.0139	0.354	1.50	45	0.53	0.53	3.56
0.0117	0.297	1.75	50	0.84	0.84	4.40
0.0098	0.250	2.00	60	1.25	1.25	5.65
0.0083	0.210	2.25	70	2.10	2.10	7.75
0.0070	0.177	2.50	80	3.11	3.11	10.86
0.0059	0.149	2.75	100	4.29	4.29	15.15
0.0049	0.125	3.00	120	5.23	5.23	20.38
0.0041	0.105	3.25	140	5.67	5.67	26.05
0.0035	0.088	3.50	170	5.62	5.62	31.66
0.0029	0.074	3.75	200	5.30	5.30	36.96
0.0025	0.063	4.00	230	4.92	4.92	41.88
0.0021	0.053	4.25	270	4.58	4.58	46.46
0.00174	0.0442	4.50	325	4.32	4.32	50.78
0.00146	0.0372	4.75	400	4.07	4.07	54.85
0.00123	0.0313	5.00	450	3.81	3.81	58.66
0.000986	0.0250	5.32	500	4.48	4.48	63.14
0.000790	0.0201	5.64	635	4.13	4.13	67.27
0.000615	0.0156	6.00		4.41	4.41	71.68
0.000435	0.0110	6.50		6.02	6.02	77.70
0.000308	0.00781	7.00		5.58	5.58	83.28
0.000197	0.00500	7.65		5.93	5.93	89.21
0.000077	0.00195	9.00		7.30	7.30	96.51
0.000038	0.000977	10.00		2.34	2.34	98.85
0.000019	0.000488	11.00		1.05	1.05	99.90
0.000015	0.000375	11.38		0.10	0.10	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.87	0.0108	0.273
10	2.43	0.0073	0.185
16	2.79	0.0057	0.145
25	3.20	0.0043	0.109
40	3.90	0.0026	0.067
50	4.45	0.0018	0.046
60	5.10	0.0012	0.029
75	6.28	0.0005	0.013
84	7.08	0.0003	0.007
90	7.79	0.0002	0.005
95	8.72	0.0001	0.002

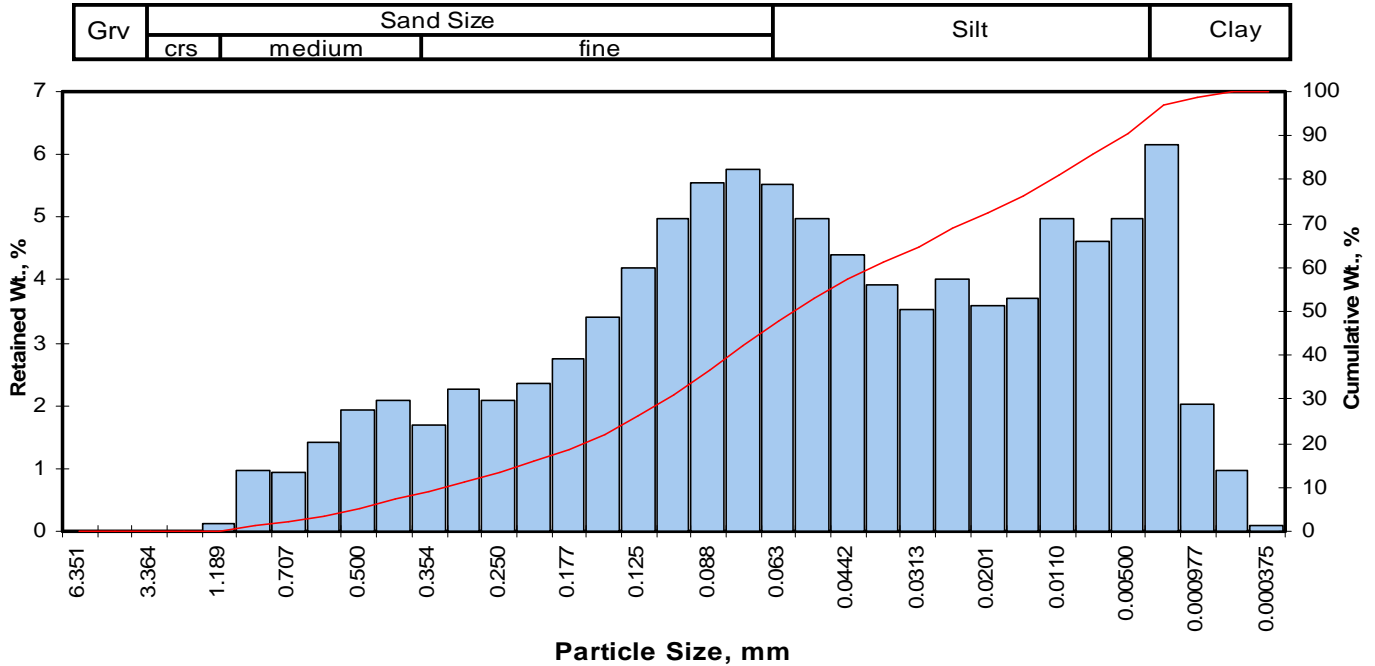
Measure	Trask	Inman	Folk-Ward
Median, phi	4.45	4.45	4.45
Median, in.	0.0018	0.0018	0.0018
Median, mm	0.046	0.046	0.046
Mean, phi	4.04	4.93	4.77
Mean, in.	0.0024	0.0013	0.0014
Mean, mm	0.061	0.033	0.037
Sorting	2.900	2.144	2.110
Skewness	0.821	0.224	0.235
Kurtosis	0.264	0.597	0.914

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.03
Fine Sand	200	33.94
Silt	>0.005 mm	52.25
Clay	<0.005 mm	10.79
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB19-84.1-84.5
Depth, ft: 84.1-84.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.11	0.11	0.11
0.0331	0.841	0.25	20	0.97	0.97	1.08
0.0278	0.707	0.50	25	0.94	0.94	2.02
0.0234	0.595	0.75	30	1.42	1.42	3.44
0.0197	0.500	1.00	35	1.92	1.92	5.36
0.0166	0.420	1.25	40	2.08	2.08	7.44
0.0139	0.354	1.50	45	1.68	1.68	9.12
0.0117	0.297	1.75	50	2.27	2.27	11.39
0.0098	0.250	2.00	60	2.08	2.08	13.47
0.0083	0.210	2.25	70	2.36	2.36	15.83
0.0070	0.177	2.50	80	2.76	2.76	18.59
0.0059	0.149	2.75	100	3.41	3.41	22.00
0.0049	0.125	3.00	120	4.19	4.19	26.19
0.0041	0.105	3.25	140	4.97	4.97	31.16
0.0035	0.088	3.50	170	5.54	5.54	36.70
0.0029	0.074	3.75	200	5.75	5.75	42.45
0.0025	0.063	4.00	230	5.52	5.52	47.97
0.0021	0.053	4.25	270	4.99	4.99	52.95
0.00174	0.0442	4.50	325	4.41	4.41	57.36
0.00146	0.0372	4.75	400	3.92	3.92	61.28
0.00123	0.0313	5.00	450	3.53	3.53	64.81
0.000986	0.0250	5.32	500	4.02	4.02	68.83
0.000790	0.0201	5.64	635	3.59	3.59	72.42
0.000615	0.0156	6.00		3.72	3.72	76.14
0.000435	0.0110	6.50		4.99	4.99	81.13
0.000308	0.00781	7.00		4.62	4.62	85.75
0.000197	0.00500	7.65		4.97	4.97	90.72
0.000077	0.00195	9.00		6.17	6.17	96.89
0.000038	0.000977	10.00		2.03	2.03	98.92
0.000019	0.000488	11.00		0.98	0.98	99.90
0.000015	0.000375	11.38		0.10	0.10	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.95	0.0203	0.516
10	1.60	0.0130	0.331
16	2.27	0.0082	0.208
25	2.93	0.0052	0.131
40	3.64	0.0032	0.080
50	4.10	0.0023	0.058
60	4.67	0.0015	0.039
75	5.89	0.0007	0.017
84	6.81	0.0004	0.009
90	7.55	0.0002	0.005
95	8.58	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	4.10	4.10	4.10
Median, in.	0.0023	0.0023	0.0023
Median, mm	0.058	0.058	0.058
Mean, phi	3.75	4.54	4.39
Mean, in.	0.0029	0.0017	0.0019
Mean, mm	0.074	0.043	0.048
Sorting	2.790	2.272	2.293
Skewness	0.808	0.192	0.183
Kurtosis	0.176	0.679	1.057

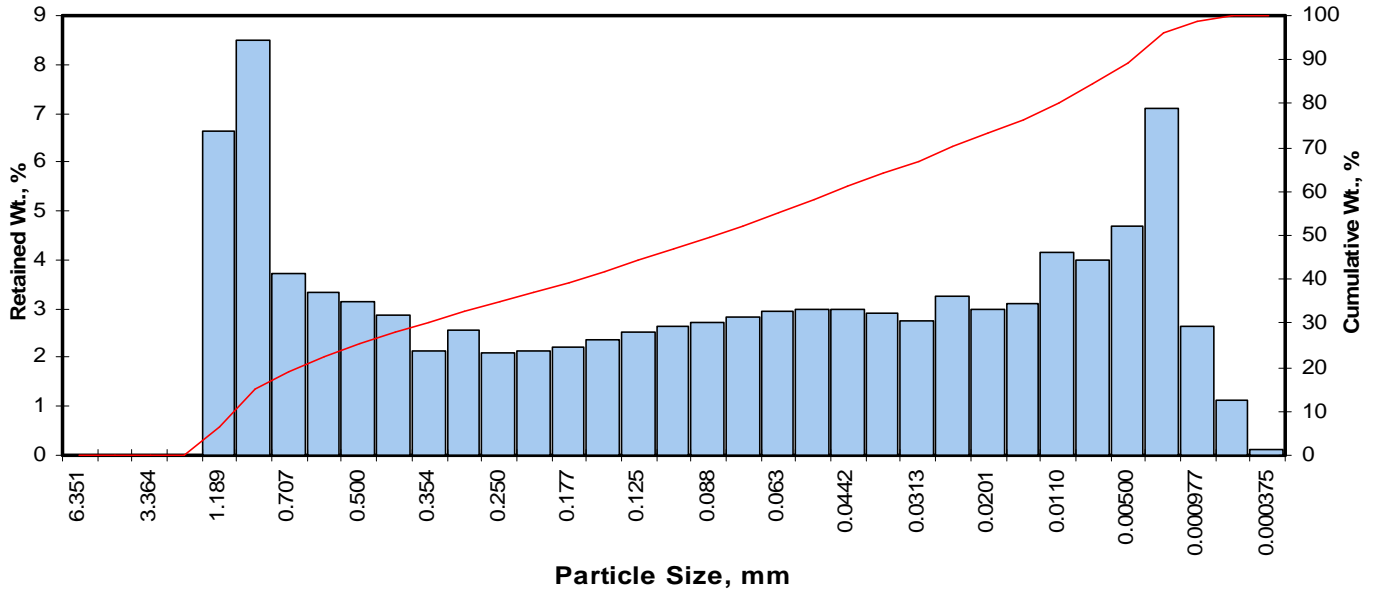
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.44
Fine Sand	200	35.01
Silt	>0.005 mm	48.28
Clay	<0.005 mm	9.28
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB12-28.0-28.5
Depth, ft: 28.0-28.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	6.63	6.63	6.63
0.0331	0.841	0.25	20	8.49	8.49	15.12
0.0278	0.707	0.50	25	3.73	3.73	18.85
0.0234	0.595	0.75	30	3.35	3.35	22.20
0.0197	0.500	1.00	35	3.14	3.14	25.34
0.0166	0.420	1.25	40	2.88	2.88	28.22
0.0139	0.354	1.50	45	2.12	2.12	30.34
0.0117	0.297	1.75	50	2.57	2.57	32.91
0.0098	0.250	2.00	60	2.08	2.08	34.99
0.0083	0.210	2.25	70	2.12	2.12	37.11
0.0070	0.177	2.50	80	2.22	2.22	39.33
0.0059	0.149	2.75	100	2.37	2.37	41.70
0.0049	0.125	3.00	120	2.51	2.51	44.21
0.0041	0.105	3.25	140	2.62	2.62	46.83
0.0035	0.088	3.50	170	2.71	2.71	49.54
0.0029	0.074	3.75	200	2.83	2.83	52.37
0.0025	0.063	4.00	230	2.93	2.93	55.30
0.0021	0.053	4.25	270	2.97	2.97	58.27
0.00174	0.0442	4.50	325	2.97	2.97	61.24
0.00146	0.0372	4.75	400	2.90	2.90	64.14
0.00123	0.0313	5.00	450	2.76	2.76	66.90
0.000986	0.0250	5.32	500	3.25	3.25	70.15
0.000790	0.0201	5.64	635	2.98	2.98	73.13
0.000615	0.0156	6.00		3.11	3.11	76.24
0.000435	0.0110	6.50		4.14	4.14	80.38
0.000308	0.00781	7.00		3.98	3.98	84.36
0.000197	0.00500	7.65		4.70	4.70	89.06
0.000077	0.00195	9.00		7.08	7.08	96.14
0.000038	0.000977	10.00		2.62	2.62	98.76
0.000019	0.000488	11.00		1.13	1.13	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.43	0.0532	1.351
10	-0.05	0.0408	1.036
16	0.31	0.0318	0.807
25	0.97	0.0201	0.509
40	2.57	0.0066	0.168
50	3.54	0.0034	0.086
60	4.40	0.0019	0.048
75	5.86	0.0007	0.017
84	6.95	0.0003	0.008
90	7.82	0.0002	0.004
95	8.78	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	3.54	3.54	3.54
Median, in.	0.0034	0.0034	0.0034
Median, mm	0.086	0.086	0.086
Mean, phi	1.92	3.63	3.60
Mean, in.	0.0104	0.0032	0.0032
Mean, mm	0.263	0.081	0.082
Sorting	5.433	3.323	3.058
Skewness	1.091	0.027	0.082
Kurtosis	0.238	0.387	0.773

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	28.22
Fine Sand	200	24.15
Silt	>0.005 mm	36.69
Clay	<0.005 mm	10.94
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

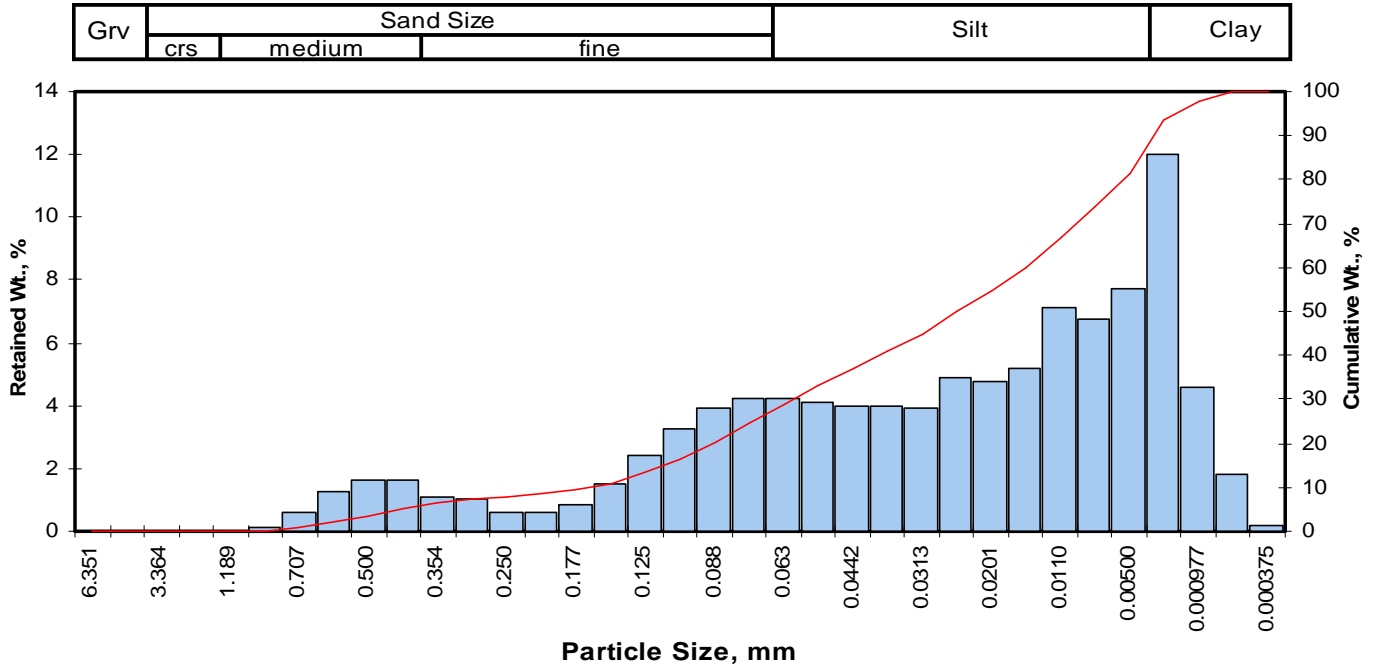
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3D

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RIDB12-33.6-34.0	33.9	Silt	0.025	0.00	0.00	5.20	19.50	56.74	18.56	75.30
PT-RIDB12-68.6-69.0	68.6-68.9	Silt	0.058	0.00	0.00	12.77	27.82	50.72	8.69	59.41
PT-RIDB12-71.0-71.3	71.0-71.3	Fine sand	0.055	0.00	0.00	10.40	33.22	43.17	13.22	56.38
PT-RIDB12-74.5-75.0	74.9	Silt	0.021	0.00	0.00	3.56	16.18	60.63	19.63	80.26
PT-RIDB12-84.5-85.0	84.5-84.7	Silt	0.020	0.00	0.00	0.00	15.22	58.59	26.19	84.78
PT-RIDB28-37.2-37.5	37.2-37.5	Fine sand	0.052	0.00	0.00	18.56	23.81	45.72	11.91	57.63
PT-RIDB28-68.5-69.0	68.5-68.7	Silt	0.010	0.00	0.00	0.02	10.91	58.08	31.00	89.08
PT-RIDB28-85.5-85.8	85.5-85.8	Silt	0.076	0.00	0.00	4.66	46.35	40.33	8.67	49.00

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB12-33.6-34.0
Depth, ft: 33.9



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.10	0.10	0.10
0.0278	0.707	0.50	25	0.63	0.63	0.73
0.0234	0.595	0.75	30	1.26	1.26	1.99
0.0197	0.500	1.00	35	1.61	1.61	3.60
0.0166	0.420	1.25	40	1.60	1.60	5.20
0.0139	0.354	1.50	45	1.08	1.08	6.28
0.0117	0.297	1.75	50	1.02	1.02	7.30
0.0098	0.250	2.00	60	0.60	0.60	7.90
0.0083	0.210	2.25	70	0.60	0.60	8.50
0.0070	0.177	2.50	80	0.87	0.87	9.37
0.0059	0.149	2.75	100	1.51	1.51	10.88
0.0049	0.125	3.00	120	2.39	2.39	13.26
0.0041	0.105	3.25	140	3.28	3.28	16.54
0.0035	0.088	3.50	170	3.93	3.93	20.47
0.0029	0.074	3.75	200	4.23	4.23	24.70
0.0025	0.063	4.00	230	4.23	4.23	28.93
0.0021	0.053	4.25	270	4.08	4.08	33.01
0.00174	0.0442	4.50	325	4.01	4.01	37.02
0.00146	0.0372	4.75	400	3.99	3.99	41.00
0.00123	0.0313	5.00	450	3.95	3.95	44.95
0.000986	0.0250	5.32	500	4.89	4.89	49.84
0.000790	0.0201	5.64	635	4.75	4.75	54.59
0.000615	0.0156	6.00		5.22	5.22	59.81
0.000435	0.0110	6.50		7.15	7.15	66.95
0.000308	0.00781	7.00		6.74	6.74	73.69
0.000197	0.00500	7.65		7.75	7.75	81.44
0.000077	0.00195	9.00		12.00	12.00	93.43
0.000038	0.000977	10.00		4.57	4.57	98.00
0.000019	0.000488	11.00		1.83	1.83	99.83
0.000015	0.000375	11.38		0.17	0.17	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.22	0.0169	0.430
10	2.60	0.0065	0.164
16	3.21	0.0043	0.108
25	3.77	0.0029	0.073
40	4.69	0.0015	0.039
50	5.33	0.0010	0.025
60	6.01	0.0006	0.015
75	7.11	0.0003	0.007
84	7.93	0.0002	0.004
90	8.61	0.0001	0.003
95	9.34	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.33	5.33	5.33
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.025	0.025	0.025
Mean, phi	4.63	5.57	5.49
Mean, in.	0.0016	0.0008	0.0009
Mean, mm	0.040	0.021	0.022
Sorting	3.184	2.363	2.412
Skewness	0.928	0.102	0.045
Kurtosis	0.204	0.719	0.996

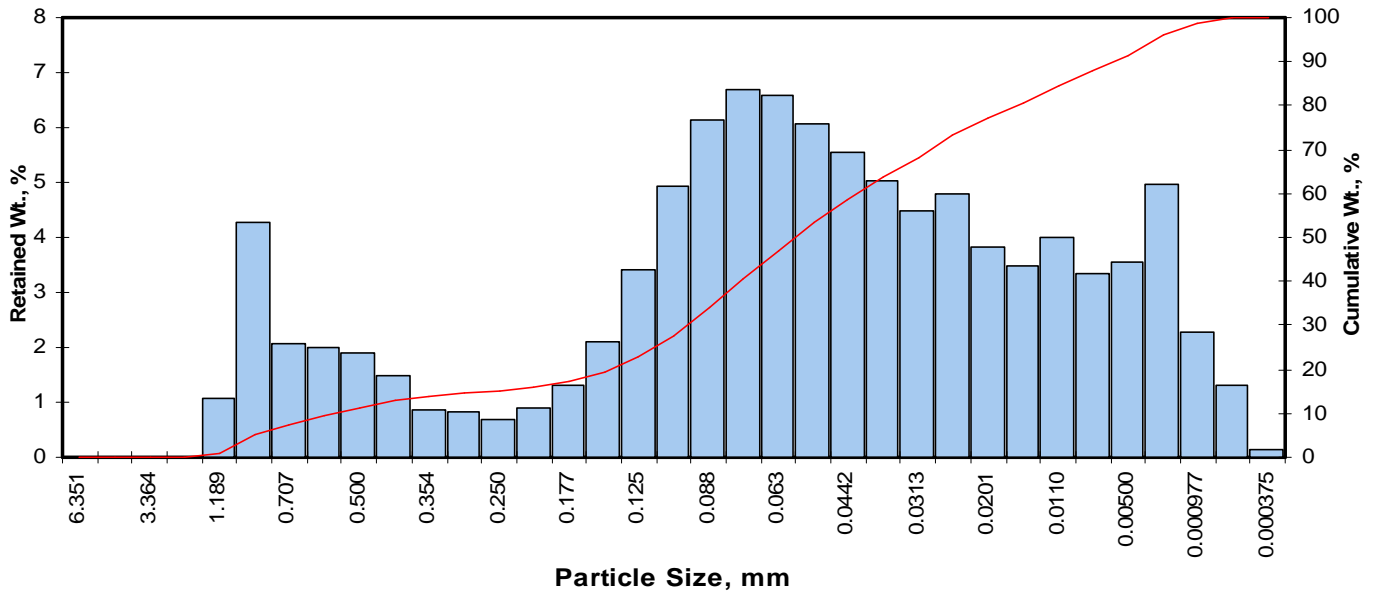
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.20
Fine Sand	200	19.50
Silt	>0.005 mm	56.74
Clay	<0.005 mm	18.56
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB12-68.6-69.0
Depth, ft: 68.6-68.9

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.06	1.06	1.06
0.0331	0.841	0.25	20	4.27	4.27	5.33
0.0278	0.707	0.50	25	2.08	2.08	7.41
0.0234	0.595	0.75	30	2.00	2.00	9.41
0.0197	0.500	1.00	35	1.88	1.88	11.29
0.0166	0.420	1.25	40	1.48	1.48	12.77
0.0139	0.354	1.50	45	0.86	0.86	13.63
0.0117	0.297	1.75	50	0.82	0.82	14.45
0.0098	0.250	2.00	60	0.68	0.68	15.13
0.0083	0.210	2.25	70	0.89	0.89	16.02
0.0070	0.177	2.50	80	1.30	1.30	17.32
0.0059	0.149	2.75	100	2.12	2.12	19.44
0.0049	0.125	3.00	120	3.42	3.42	22.86
0.0041	0.105	3.25	140	4.92	4.92	27.78
0.0035	0.088	3.50	170	6.13	6.13	33.91
0.0029	0.074	3.75	200	6.68	6.68	40.59
0.0025	0.063	4.00	230	6.57	6.57	47.16
0.0021	0.053	4.25	270	6.08	6.08	53.23
0.00174	0.0442	4.50	325	5.56	5.56	58.79
0.00146	0.0372	4.75	400	5.04	5.04	63.83
0.00123	0.0313	5.00	450	4.47	4.47	68.30
0.000986	0.0250	5.32	500	4.80	4.80	73.10
0.000790	0.0201	5.64	635	3.84	3.84	76.94
0.000615	0.0156	6.00		3.49	3.49	80.43
0.000435	0.0110	6.50		3.99	3.99	84.42
0.000308	0.00781	7.00		3.35	3.35	87.77
0.000197	0.00500	7.65		3.54	3.54	91.31
0.000077	0.00195	9.00		4.97	4.97	96.28
0.000038	0.000977	10.00		2.26	2.26	98.54
0.000019	0.000488	11.00		1.32	1.32	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.21	0.0340	0.864
10	0.83	0.0222	0.563
16	2.24	0.0083	0.211
25	3.11	0.0046	0.116
40	3.73	0.0030	0.075
50	4.12	0.0023	0.058
60	4.56	0.0017	0.042
75	5.48	0.0009	0.022
84	6.45	0.0005	0.011
90	7.41	0.0002	0.006
95	8.65	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.12	4.12	4.12
Median, in.	0.0023	0.0023	0.0023
Median, mm	0.058	0.058	0.058
Mean, phi	3.85	4.35	4.27
Mean, in.	0.0027	0.0019	0.0020
Mean, mm	0.069	0.049	0.052
Sorting	2.273	2.101	2.329
Skewness	0.885	0.109	0.092
Kurtosis	0.084	1.008	1.460

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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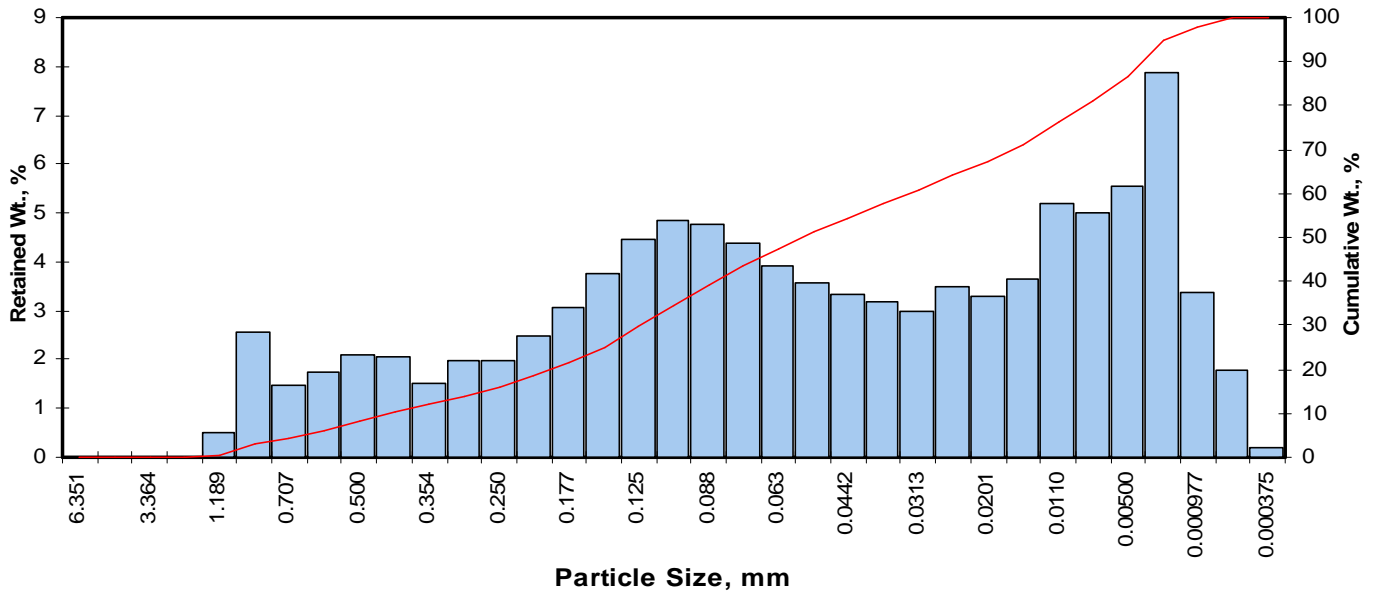
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	12.77
Fine Sand	200	27.82
Silt	>0.005 mm	50.72
Clay	<0.005 mm	8.69

Total	100
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Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB12-71.0-71.3
Depth, ft: 71.0-71.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.49	0.49	0.49
0.0331	0.841	0.25	20	2.55	2.55	3.04
0.0278	0.707	0.50	25	1.47	1.47	4.51
0.0234	0.595	0.75	30	1.74	1.74	6.25
0.0197	0.500	1.00	35	2.09	2.09	8.34
0.0166	0.420	1.25	40	2.06	2.06	10.40
0.0139	0.354	1.50	45	1.51	1.51	11.91
0.0117	0.297	1.75	50	1.98	1.98	13.89
0.0098	0.250	2.00	60	1.99	1.99	15.88
0.0083	0.210	2.25	70	2.49	2.49	18.37
0.0070	0.177	2.50	80	3.05	3.05	21.42
0.0059	0.149	2.75	100	3.76	3.76	25.18
0.0049	0.125	3.00	120	4.45	4.45	29.63
0.0041	0.105	3.25	140	4.84	4.84	34.47
0.0035	0.088	3.50	170	4.77	4.77	39.24
0.0029	0.074	3.75	200	4.38	4.38	43.62
0.0025	0.063	4.00	230	3.92	3.92	47.54
0.0021	0.053	4.25	270	3.55	3.55	51.08
0.00174	0.0442	4.50	325	3.34	3.34	54.42
0.00146	0.0372	4.75	400	3.17	3.17	57.59
0.00123	0.0313	5.00	450	2.97	2.97	60.56
0.000986	0.0250	5.32	500	3.49	3.49	64.05
0.000790	0.0201	5.64	635	3.30	3.30	67.35
0.000615	0.0156	6.00		3.66	3.66	71.01
0.000435	0.0110	6.50		5.21	5.21	76.22
0.000308	0.00781	7.00		5.00	5.00	81.22
0.000197	0.00500	7.65		5.56	5.56	86.78
0.000077	0.00195	9.00		7.86	7.86	94.64
0.000038	0.000977	10.00		3.37	3.37	98.01
0.000019	0.000488	11.00		1.80	1.80	99.81
0.000015	0.000375	11.38		0.19	0.19	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.57	0.0265	0.673
10	1.20	0.0171	0.435
16	2.01	0.0098	0.248
25	2.74	0.0059	0.150
40	3.54	0.0034	0.086
50	4.17	0.0022	0.055
60	4.95	0.0013	0.032
75	6.38	0.0005	0.012
84	7.32	0.0002	0.006
90	8.20	0.0001	0.003
95	9.11	0.0001	0.002

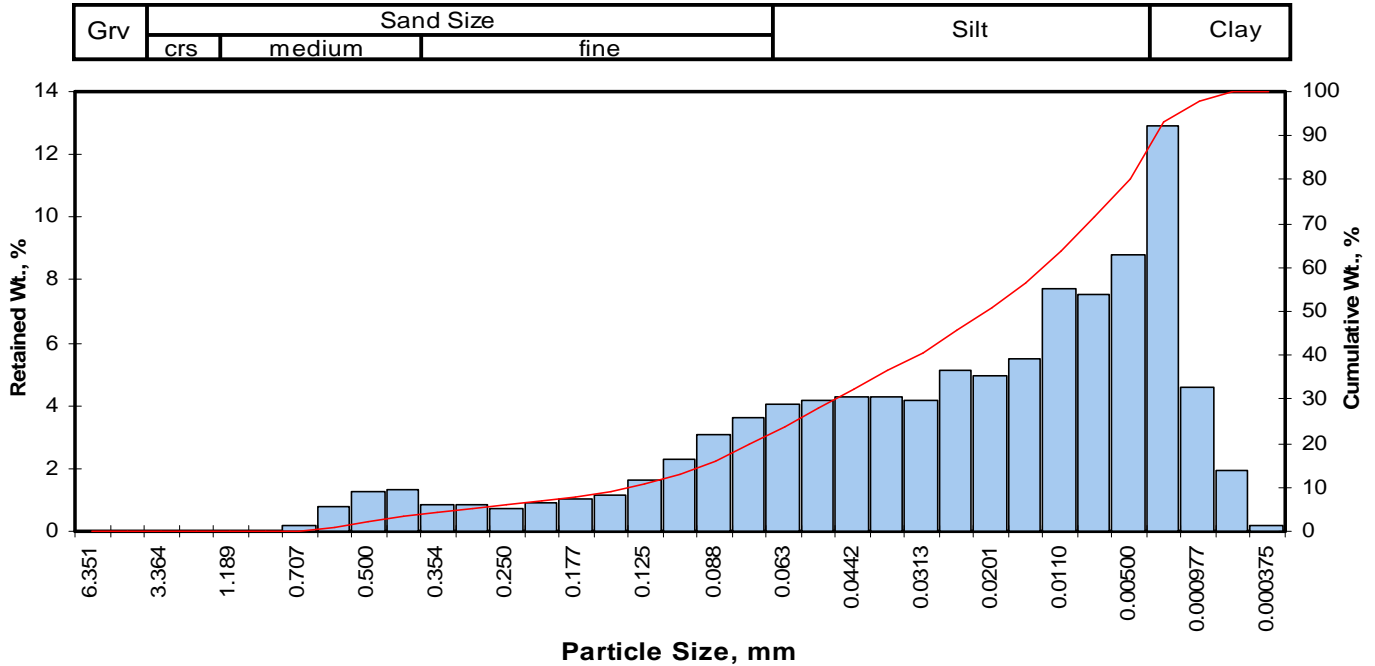
Measure	Trask	Inman	Folk-Ward
Median, phi	4.17	4.17	4.17
Median, in.	0.0022	0.0022	0.0022
Median, mm	0.055	0.055	0.055
Mean, phi	3.63	4.67	4.50
Mean, in.	0.0032	0.0015	0.0017
Mean, mm	0.081	0.039	0.044
Sorting	3.536	2.655	2.621
Skewness	0.765	0.186	0.171
Kurtosis	0.160	0.608	0.960

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	10.40
Fine Sand	200	33.22
Silt	>0.005 mm	43.17
Clay	<0.005 mm	13.22
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB12-74.5-75.0
Depth, ft: 74.9



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.01	0.01	0.01
0.0278	0.707	0.50	25	0.20	0.20	0.21
0.0234	0.595	0.75	30	0.78	0.78	0.99
0.0197	0.500	1.00	35	1.27	1.27	2.26
0.0166	0.420	1.25	40	1.30	1.30	3.56
0.0139	0.354	1.50	45	0.85	0.85	4.41
0.0117	0.297	1.75	50	0.87	0.87	5.28
0.0098	0.250	2.00	60	0.75	0.75	6.03
0.0083	0.210	2.25	70	0.90	0.90	6.93
0.0070	0.177	2.50	80	1.00	1.00	7.93
0.0059	0.149	2.75	100	1.17	1.17	9.10
0.0049	0.125	3.00	120	1.62	1.62	10.73
0.0041	0.105	3.25	140	2.32	2.32	13.05
0.0035	0.088	3.50	170	3.05	3.05	16.10
0.0029	0.074	3.75	200	3.64	3.64	19.74
0.0025	0.063	4.00	230	4.02	4.02	23.76
0.0021	0.053	4.25	270	4.19	4.19	27.95
0.00174	0.0442	4.50	325	4.29	4.29	32.24
0.00146	0.0372	4.75	400	4.27	4.27	36.52
0.00123	0.0313	5.00	450	4.18	4.18	40.70
0.000986	0.0250	5.32	500	5.12	5.12	45.82
0.000790	0.0201	5.64	635	4.95	4.95	50.77
0.000615	0.0156	6.00		5.48	5.48	56.25
0.000435	0.0110	6.50		7.74	7.74	64.00
0.000308	0.00781	7.00		7.56	7.56	71.56
0.000197	0.00500	7.65		8.81	8.81	80.37
0.000077	0.00195	9.00		12.90	12.91	93.28
0.000038	0.000977	10.00		4.61	4.61	97.89
0.000019	0.000488	11.00		1.93	1.93	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.67	0.0124	0.315
10	2.89	0.0053	0.135
16	3.49	0.0035	0.089
25	4.07	0.0023	0.059
40	4.96	0.0013	0.032
50	5.59	0.0008	0.021
60	6.24	0.0005	0.013
75	7.25	0.0003	0.007
84	8.03	0.0002	0.004
90	8.66	0.0001	0.002
95	9.37	0.0001	0.002

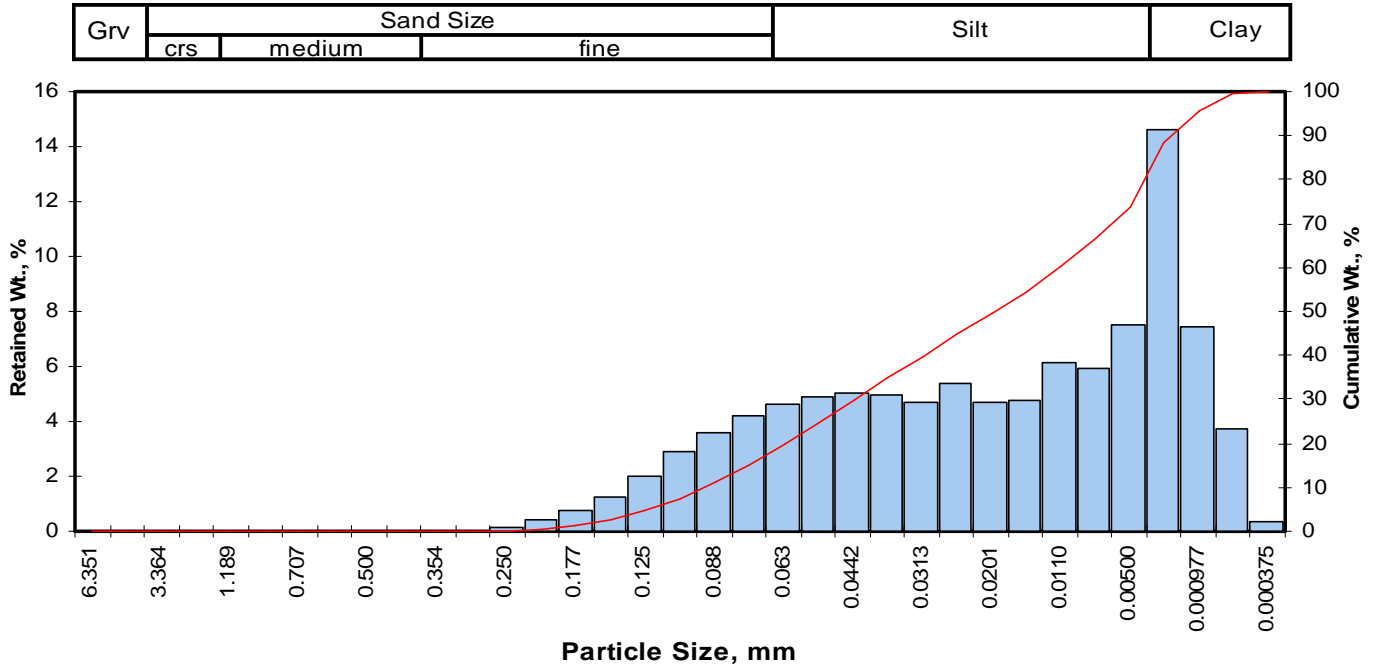
Measure	Trask	Inman	Folk-Ward
Median, phi	5.59	5.59	5.59
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	4.92	5.76	5.70
Mean, in.	0.0013	0.0007	0.0008
Mean, mm	0.033	0.018	0.019
Sorting	3.008	2.267	2.301
Skewness	0.951	0.074	0.028
Kurtosis	0.199	0.699	0.994

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.56
Fine Sand	200	16.18
Silt	>0.005 mm	60.63
Clay	<0.005 mm	19.63
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB12-84.5-85.0
Depth, ft: 84.5-84.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.02	0.02	0.02
0.0098	0.250	2.00	60	0.14	0.14	0.16
0.0083	0.210	2.25	70	0.40	0.40	0.56
0.0070	0.177	2.50	80	0.74	0.74	1.30
0.0059	0.149	2.75	100	1.26	1.26	2.56
0.0049	0.125	3.00	120	2.01	2.01	4.57
0.0041	0.105	3.25	140	2.87	2.87	7.43
0.0035	0.088	3.50	170	3.61	3.61	11.04
0.0029	0.074	3.75	200	4.18	4.18	15.22
0.0025	0.063	4.00	230	4.60	4.60	19.82
0.0021	0.053	4.25	270	4.87	4.87	24.69
0.00174	0.0442	4.50	325	5.05	5.05	29.74
0.00146	0.0372	4.75	400	5.00	5.00	34.74
0.00123	0.0313	5.00	450	4.72	4.72	39.46
0.000986	0.0250	5.32	500	5.36	5.36	44.82
0.000790	0.0201	5.64	635	4.68	4.68	49.50
0.000615	0.0156	6.00		4.74	4.74	54.24
0.000435	0.0110	6.50		6.12	6.12	60.36
0.000308	0.00781	7.00		5.92	5.92	66.28
0.000197	0.00500	7.65		7.54	7.54	73.81
0.000077	0.00195	9.00		14.60	14.60	88.41
0.000038	0.000977	10.00		7.47	7.47	95.88
0.000019	0.000488	11.00		3.75	3.75	99.63
0.000015	0.000375	11.38		0.37	0.37	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.04	0.0048	0.122
10	3.43	0.0037	0.093
16	3.79	0.0028	0.072
25	4.27	0.0020	0.052
40	5.03	0.0012	0.031
50	5.68	0.0008	0.020
60	6.47	0.0004	0.011
75	7.76	0.0002	0.005
84	8.59	0.0001	0.003
90	9.21	0.0001	0.002
95	9.88	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.68	5.68	5.68
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.020	0.020	0.020
Mean, phi	5.14	6.19	6.02
Mean, in.	0.0011	0.0005	0.0006
Mean, mm	0.028	0.014	0.015
Sorting	3.352	2.399	2.237
Skewness	0.794	0.214	0.221
Kurtosis	0.260	0.426	0.804

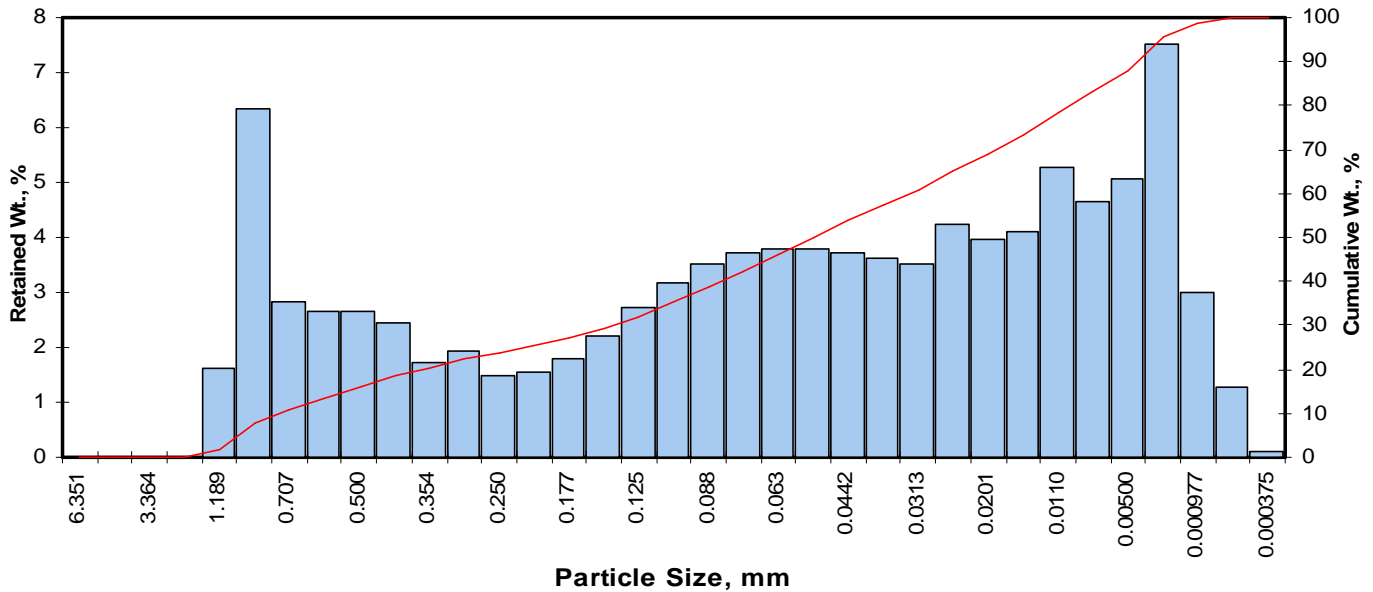
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	15.22
Silt	>0.005 mm	58.59
Clay	<0.005 mm	26.19
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB28-37.2-37.5
Depth, ft: 37.2-37.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.62	1.62	1.62
0.0331	0.841	0.25	20	6.34	6.34	7.96
0.0278	0.707	0.50	25	2.84	2.84	10.80
0.0234	0.595	0.75	30	2.66	2.66	13.46
0.0197	0.500	1.00	35	2.65	2.65	16.11
0.0166	0.420	1.25	40	2.45	2.45	18.56
0.0139	0.354	1.50	45	1.72	1.72	20.28
0.0117	0.297	1.75	50	1.94	1.94	22.22
0.0098	0.250	2.00	60	1.48	1.48	23.70
0.0083	0.210	2.25	70	1.55	1.55	25.25
0.0070	0.177	2.50	80	1.78	1.78	27.03
0.0059	0.149	2.75	100	2.21	2.21	29.24
0.0049	0.125	3.00	120	2.72	2.72	31.96
0.0041	0.105	3.25	140	3.17	3.17	35.13
0.0035	0.088	3.50	170	3.51	3.51	38.64
0.0029	0.074	3.75	200	3.73	3.73	42.37
0.0025	0.063	4.00	230	3.81	3.81	46.18
0.0021	0.053	4.25	270	3.78	3.78	49.96
0.00174	0.0442	4.50	325	3.72	3.72	53.68
0.00146	0.0372	4.75	400	3.63	3.63	57.31
0.00123	0.0313	5.00	450	3.51	3.51	60.82
0.000986	0.0250	5.32	500	4.23	4.23	65.05
0.000790	0.0201	5.64	635	3.95	3.95	69.00
0.000615	0.0156	6.00		4.11	4.11	73.11
0.000435	0.0110	6.50		5.27	5.27	78.38
0.000308	0.00781	7.00		4.65	4.65	83.03
0.000197	0.00500	7.65		5.06	5.06	88.09
0.000077	0.00195	9.00		7.51	7.51	95.60
0.000038	0.000977	10.00		2.99	2.99	98.59
0.000019	0.000488	11.00		1.29	1.29	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.02	0.0389	0.989
10	0.43	0.0292	0.742
16	0.99	0.0198	0.504
25	2.21	0.0085	0.216
40	3.59	0.0033	0.083
50	4.25	0.0021	0.052
60	4.94	0.0013	0.033
75	6.18	0.0005	0.014
84	7.12	0.0003	0.007
90	7.99	0.0002	0.004
95	8.89	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.25	4.25	4.25
Median, in.	0.0021	0.0021	0.0021
Median, mm	0.052	0.052	0.052
Mean, phi	3.12	4.06	4.12
Mean, in.	0.0045	0.0024	0.0023
Mean, mm	0.115	0.060	0.057
Sorting	3.958	3.067	2.878
Skewness	1.041	-0.064	-0.009
Kurtosis	0.137	0.447	0.916

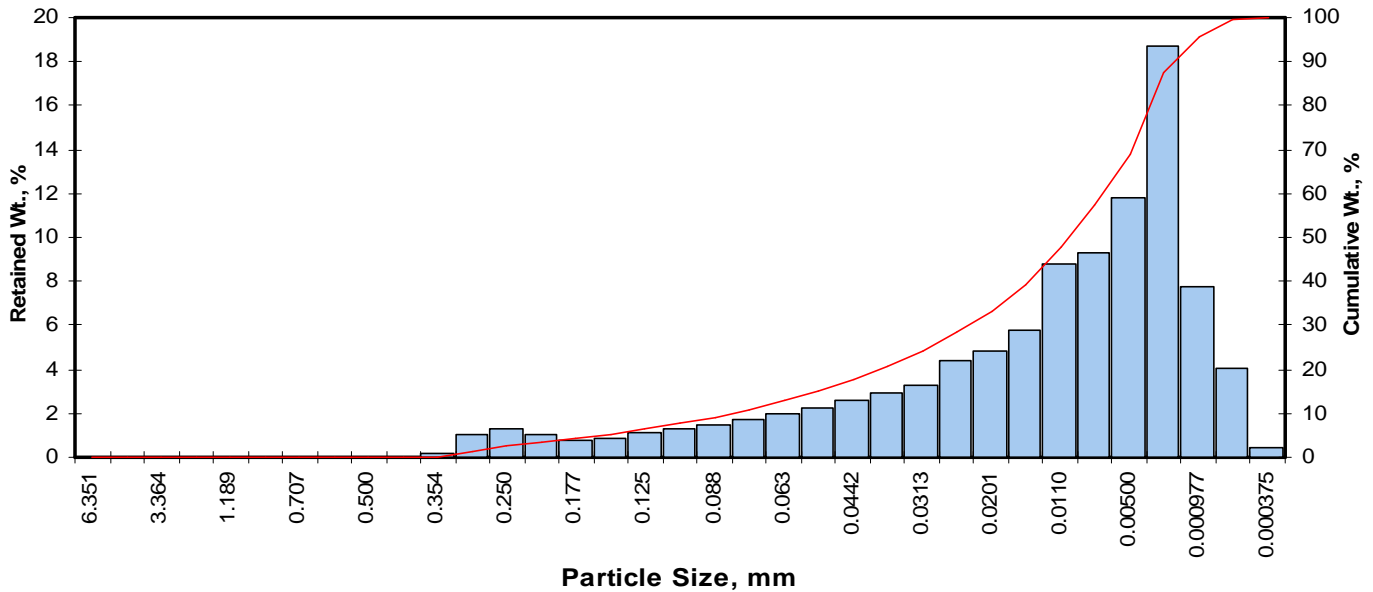
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	18.56
Fine Sand	200	23.81
Silt	>0.005 mm	45.72
Clay	<0.005 mm	11.91
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB28-68.5-69.0
Depth, ft: 68.5-68.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.02	0.02	0.02
0.0139	0.354	1.50	45	0.19	0.19	0.21
0.0117	0.297	1.75	50	1.02	1.02	1.23
0.0098	0.250	2.00	60	1.28	1.28	2.51
0.0083	0.210	2.25	70	1.05	1.05	3.56
0.0070	0.177	2.50	80	0.77	0.77	4.33
0.0059	0.149	2.75	100	0.88	0.88	5.21
0.0049	0.125	3.00	120	1.15	1.15	6.35
0.0041	0.105	3.25	140	1.33	1.33	7.68
0.0035	0.088	3.50	170	1.50	1.50	9.18
0.0029	0.074	3.75	200	1.74	1.74	10.92
0.0025	0.063	4.00	230	2.00	2.00	12.92
0.0021	0.053	4.25	270	2.27	2.27	15.19
0.00174	0.0442	4.50	325	2.61	2.61	17.80
0.00146	0.0372	4.75	400	2.96	2.96	20.76
0.00123	0.0313	5.00	450	3.25	3.25	24.01
0.000986	0.0250	5.32	500	4.44	4.44	28.45
0.000790	0.0201	5.64	635	4.82	4.82	33.27
0.000615	0.0156	6.00		5.80	5.80	39.07
0.000435	0.0110	6.50		8.81	8.81	47.88
0.000308	0.00781	7.00		9.33	9.33	57.21
0.000197	0.00500	7.65		11.80	11.80	69.00
0.000077	0.00195	9.00		18.70	18.70	87.70
0.000038	0.000977	10.00		7.78	7.78	95.48
0.000019	0.000488	11.00		4.09	4.09	99.57
0.000015	0.000375	11.38		0.43	0.43	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.69	0.0061	0.155
10	3.62	0.0032	0.081
16	4.33	0.0020	0.050
25	5.07	0.0012	0.030
40	6.05	0.0006	0.015
50	6.61	0.0004	0.010
60	7.15	0.0003	0.007
75	8.08	0.0001	0.004
84	8.73	0.0001	0.002
90	9.30	0.0001	0.002
95	9.94	0.0000	0.001

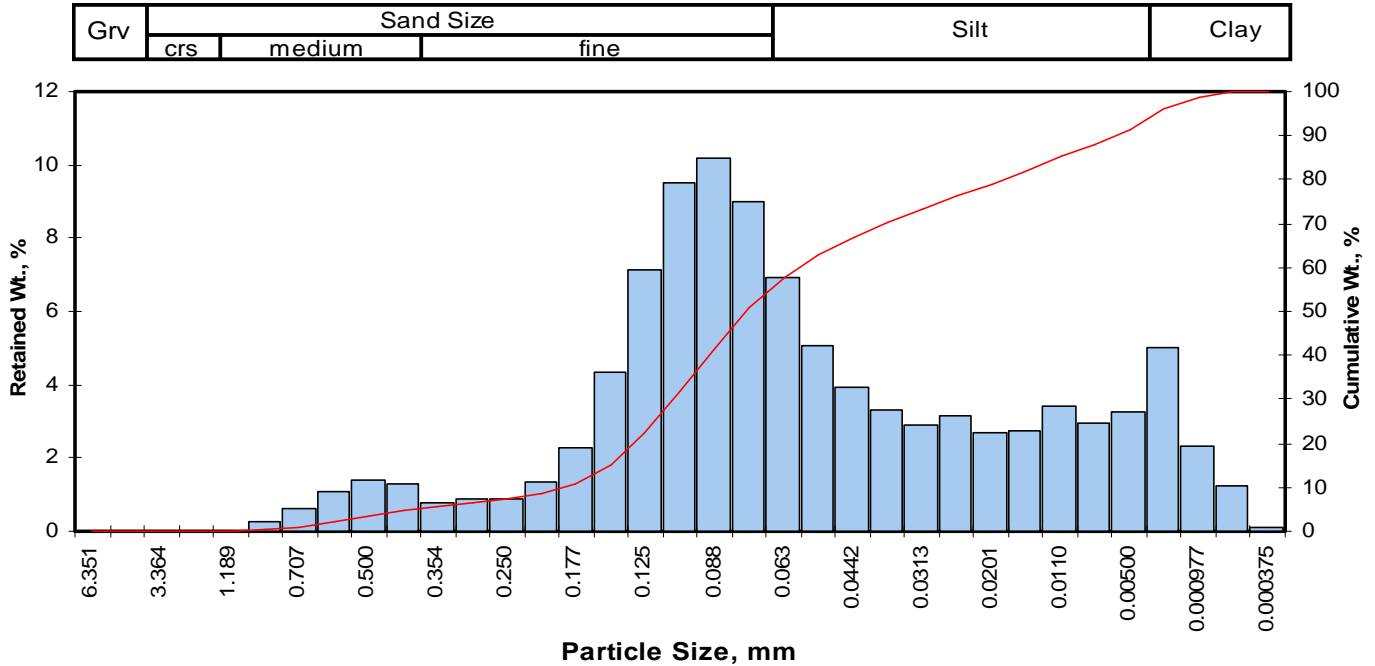
Measure	Trask	Inman	Folk-Ward
Median, phi	6.61	6.61	6.61
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.010	0.010	0.010
Mean, phi	5.90	6.53	6.56
Mean, in.	0.0007	0.0004	0.0004
Mean, mm	0.017	0.011	0.011
Sorting	2.837	2.202	2.199
Skewness	1.027	-0.038	-0.060
Kurtosis	0.163	0.645	0.987

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.02
Fine Sand	200	10.91
Silt	>0.005 mm	58.08
Clay	<0.005 mm	31.00
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB28-85.5-85.8
Depth, ft: 85.5-85.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.28	0.28	0.28
0.0278	0.707	0.50	25	0.60	0.60	0.88
0.0234	0.595	0.75	30	1.07	1.07	1.95
0.0197	0.500	1.00	35	1.42	1.42	3.37
0.0166	0.420	1.25	40	1.29	1.29	4.66
0.0139	0.354	1.50	45	0.80	0.80	5.46
0.0117	0.297	1.75	50	0.87	0.87	6.33
0.0098	0.250	2.00	60	0.89	0.89	7.22
0.0083	0.210	2.25	70	1.34	1.34	8.56
0.0070	0.177	2.50	80	2.28	2.28	10.84
0.0059	0.149	2.75	100	4.33	4.33	15.16
0.0049	0.125	3.00	120	7.16	7.16	22.32
0.0041	0.105	3.25	140	9.51	9.51	31.82
0.0035	0.088	3.50	170	10.20	10.19	42.02
0.0029	0.074	3.75	200	8.99	8.99	51.00
0.0025	0.063	4.00	230	6.94	6.94	57.94
0.0021	0.053	4.25	270	5.09	5.09	63.03
0.00174	0.0442	4.50	325	3.94	3.94	66.97
0.00146	0.0372	4.75	400	3.32	3.32	70.29
0.00123	0.0313	5.00	450	2.89	2.89	73.17
0.000986	0.0250	5.32	500	3.15	3.15	76.32
0.000790	0.0201	5.64	635	2.71	2.71	79.03
0.000615	0.0156	6.00		2.72	2.72	81.75
0.000435	0.0110	6.50		3.39	3.39	85.14
0.000308	0.00781	7.00		2.96	2.96	88.10
0.000197	0.00500	7.65		3.24	3.24	91.33
0.000077	0.00195	9.00		5.00	5.00	96.33
0.000038	0.000977	10.00		2.33	2.33	98.66
0.000019	0.000488	11.00		1.22	1.22	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.10	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.36	0.0154	0.390
10	2.41	0.0074	0.188
16	2.78	0.0057	0.146
25	3.07	0.0047	0.119
40	3.45	0.0036	0.091
50	3.72	0.0030	0.076
60	4.10	0.0023	0.058
75	5.19	0.0011	0.027
84	6.33	0.0005	0.012
90	7.38	0.0002	0.006
95	8.64	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	3.72	3.72	3.72
Median, in.	0.0030	0.0030	0.0030
Median, mm	0.076	0.076	0.076
Mean, phi	3.77	4.56	4.28
Mean, in.	0.0029	0.0017	0.0020
Mean, mm	0.073	0.043	0.052
Sorting	2.081	1.776	1.992
Skewness	0.755	0.469	0.410
Kurtosis	0.251	1.050	1.411

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	4.66
Fine Sand	200	46.35
Silt	>0.005 mm	40.33
Clay	<0.005 mm	8.67
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3D

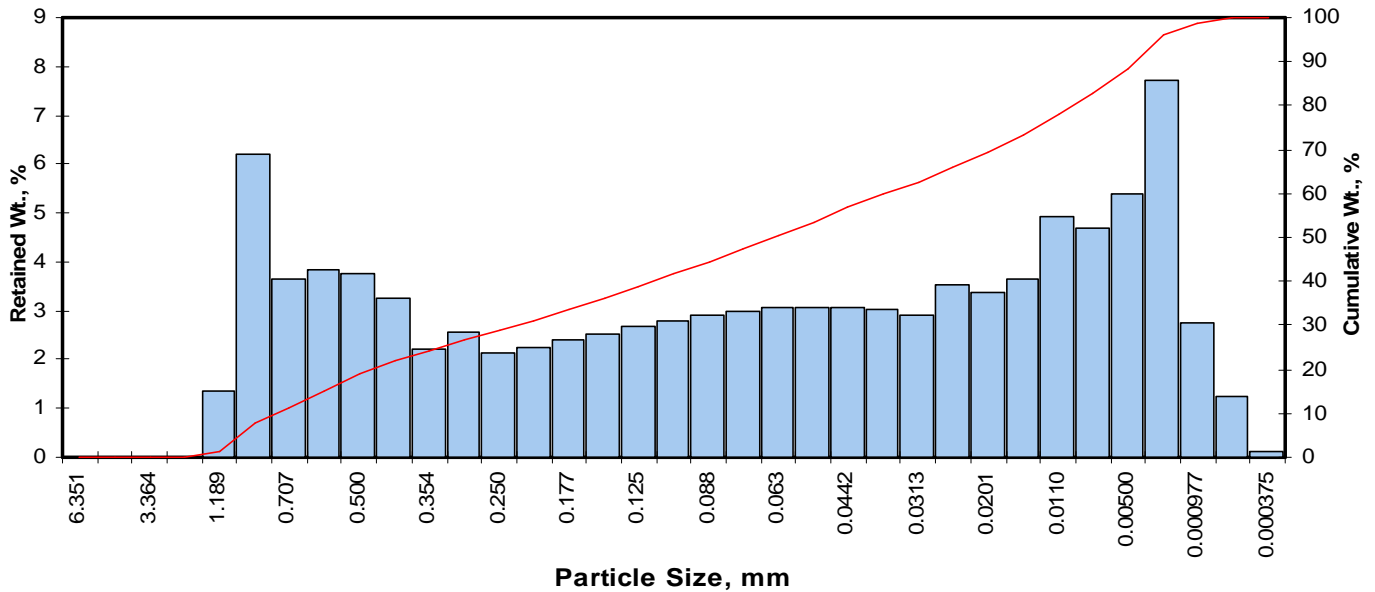
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-M220-62.0-62.4	62.0-62.2	Fine sand	0.065	0.00	0.00	22.06	25.46	40.66	11.82	52.48
PT-RIDB22-42.9-43.3	42.9-43.0	Silt	0.021	0.00	0.00	1.77	19.85	56.22	22.15	78.38
PT-RIDB22-71.6-72.0	71.6-71.8	Fine sand	0.061	0.00	0.00	34.30	13.87	38.27	13.55	51.83
PT-RIDB22-87.7-88.0	87.7-88.0	Silt	0.026	0.00	0.00	0.05	26.61	52.73	20.62	73.35

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-M220-62.0-62.4
Depth, ft: 62.0-62.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.36	1.36	1.36
0.0331	0.841	0.25	20	6.21	6.21	7.57
0.0278	0.707	0.50	25	3.66	3.66	11.23
0.0234	0.595	0.75	30	3.83	3.83	15.06
0.0197	0.500	1.00	35	3.75	3.75	18.81
0.0166	0.420	1.25	40	3.25	3.25	22.06
0.0139	0.354	1.50	45	2.22	2.22	24.28
0.0117	0.297	1.75	50	2.57	2.57	26.85
0.0098	0.250	2.00	60	2.13	2.13	28.98
0.0083	0.210	2.25	70	2.26	2.26	31.24
0.0070	0.177	2.50	80	2.40	2.40	33.64
0.0059	0.149	2.75	100	2.53	2.53	36.17
0.0049	0.125	3.00	120	2.67	2.67	38.84
0.0041	0.105	3.25	140	2.79	2.79	41.63
0.0035	0.088	3.50	170	2.90	2.90	44.53
0.0029	0.074	3.75	200	2.99	2.99	47.52
0.0025	0.063	4.00	230	3.05	3.05	50.57
0.0021	0.053	4.25	270	3.06	3.06	53.63
0.00174	0.0442	4.50	325	3.06	3.06	56.69
0.00146	0.0372	4.75	400	3.01	3.01	59.70
0.00123	0.0313	5.00	450	2.92	2.92	62.62
0.000986	0.0250	5.32	500	3.54	3.54	66.16
0.000790	0.0201	5.64	635	3.37	3.37	69.53
0.000615	0.0156	6.00		3.63	3.63	73.16
0.000435	0.0110	6.50		4.93	4.93	78.09
0.000308	0.00781	7.00		4.69	4.69	82.78
0.000197	0.00500	7.65		5.40	5.40	88.18
0.000077	0.00195	9.00		7.73	7.73	95.91
0.000038	0.000977	10.00		2.74	2.74	98.65
0.000019	0.000488	11.00		1.23	1.23	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.04	0.0382	0.971
10	0.42	0.0295	0.750
16	0.81	0.0224	0.569
25	1.57	0.0133	0.337
40	3.10	0.0046	0.116
50	3.95	0.0025	0.065
60	4.78	0.0014	0.037
75	6.19	0.0005	0.014
84	7.15	0.0003	0.007
90	7.96	0.0002	0.004
95	8.84	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	3.95	3.95	3.95
Median, in.	0.0025	0.0025	0.0025
Median, mm	0.065	0.065	0.065
Mean, phi	2.51	3.98	3.97
Mean, in.	0.0069	0.0025	0.0025
Mean, mm	0.175	0.063	0.064
Sorting	4.953	3.167	2.916
Skewness	1.053	0.008	0.060
Kurtosis	0.217	0.389	0.781

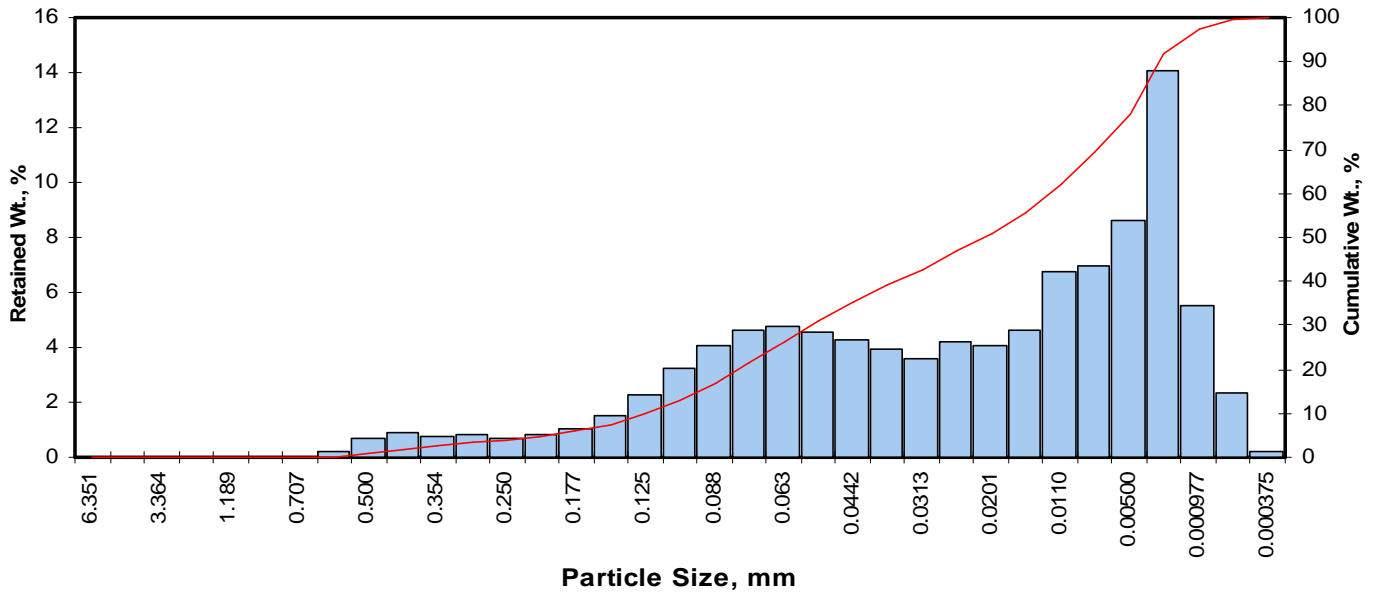
Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	22.06
Fine Sand	200	25.46
Silt	>0.005 mm	40.66
Clay	<0.005 mm	11.82
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB22-42.9-43.3
Depth, ft: 42.9-43.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.01	0.01	0.01
0.0234	0.595	0.75	30	0.18	0.18	0.19
0.0197	0.500	1.00	35	0.66	0.66	0.85
0.0166	0.420	1.25	40	0.92	0.92	1.77
0.0139	0.354	1.50	45	0.74	0.74	2.51
0.0117	0.297	1.75	50	0.85	0.85	3.36
0.0098	0.250	2.00	60	0.69	0.69	4.05
0.0083	0.210	2.25	70	0.80	0.80	4.85
0.0070	0.177	2.50	80	1.05	1.05	5.90
0.0059	0.149	2.75	100	1.54	1.54	7.44
0.0049	0.125	3.00	120	2.30	2.30	9.74
0.0041	0.105	3.25	140	3.21	3.21	12.95
0.0035	0.088	3.50	170	4.06	4.06	17.01
0.0029	0.074	3.75	200	4.61	4.61	21.62
0.0025	0.063	4.00	230	4.75	4.75	26.37
0.0021	0.053	4.25	270	4.56	4.56	30.94
0.00174	0.0442	4.50	325	4.25	4.25	35.19
0.00146	0.0372	4.75	400	3.90	3.90	39.09
0.00123	0.0313	5.00	450	3.58	3.58	42.67
0.000986	0.0250	5.32	500	4.20	4.20	46.87
0.000790	0.0201	5.64	635	4.05	4.05	50.92
0.000615	0.0156	6.00		4.60	4.60	55.52
0.000435	0.0110	6.50		6.75	6.75	62.27
0.000308	0.00781	7.00		6.95	6.95	69.22
0.000197	0.00500	7.65		8.63	8.63	77.85
0.000077	0.00195	9.00		14.10	14.10	91.95
0.000038	0.000977	10.00		5.49	5.49	97.44
0.000019	0.000488	11.00		2.34	2.34	99.78
0.000015	0.000375	11.38		0.22	0.22	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.28	0.0081	0.205
10	3.02	0.0049	0.123
16	3.44	0.0036	0.092
25	3.93	0.0026	0.066
40	4.81	0.0014	0.036
50	5.57	0.0008	0.021
60	6.33	0.0005	0.012
75	7.43	0.0002	0.006
84	8.24	0.0001	0.003
90	8.81	0.0001	0.002
95	9.56	0.0001	0.001

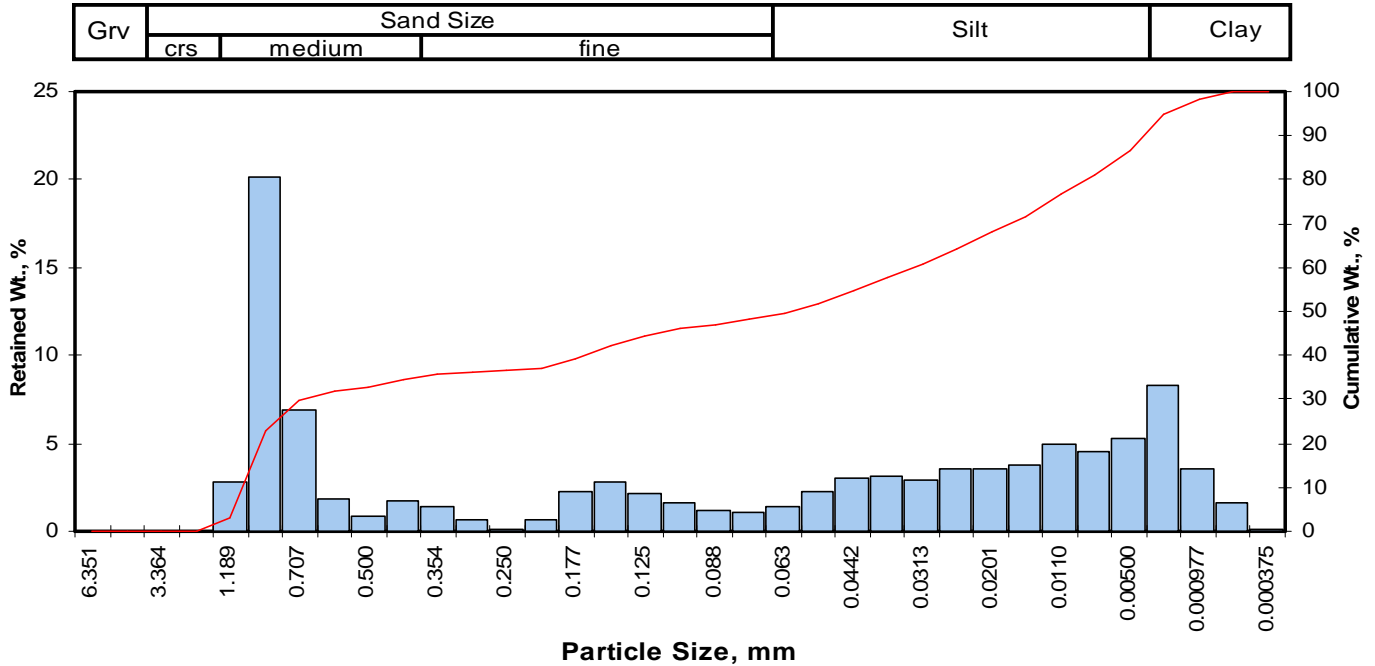
Measure	Trask	Inman	Folk-Ward
Median, phi	5.57	5.57	5.57
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	4.81	5.84	5.75
Mean, in.	0.0014	0.0007	0.0007
Mean, mm	0.036	0.017	0.019
Sorting	3.369	2.399	2.301
Skewness	0.925	0.112	0.105
Kurtosis	0.248	0.515	0.850

Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.77
Fine Sand	200	19.85
Silt	>0.005 mm	56.22
Clay	<0.005 mm	22.15
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB22-71.6-72.0
Depth, ft: 71.6-71.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	2.83	2.83	2.83
0.0331	0.841	0.25	20	20.10	20.10	22.93
0.0278	0.707	0.50	25	6.90	6.90	29.83
0.0234	0.595	0.75	30	1.87	1.87	31.70
0.0197	0.500	1.00	35	0.86	0.86	32.56
0.0166	0.420	1.25	40	1.74	1.74	34.30
0.0139	0.354	1.50	45	1.44	1.44	35.74
0.0117	0.297	1.75	50	0.64	0.64	36.38
0.0098	0.250	2.00	60	0.07	0.07	36.45
0.0083	0.210	2.25	70	0.67	0.67	37.12
0.0070	0.177	2.50	80	2.23	2.23	39.35
0.0059	0.149	2.75	100	2.78	2.78	42.13
0.0049	0.125	3.00	120	2.19	2.19	44.32
0.0041	0.105	3.25	140	1.59	1.59	45.91
0.0035	0.088	3.50	170	1.21	1.21	47.12
0.0029	0.074	3.75	200	1.05	1.05	48.17
0.0025	0.063	4.00	230	1.41	1.41	49.58
0.0021	0.053	4.25	270	2.27	2.27	51.85
0.00174	0.0442	4.50	325	3.02	3.02	54.88
0.00146	0.0372	4.75	400	3.08	3.08	57.96
0.00123	0.0313	5.00	450	2.90	2.90	60.86
0.000986	0.0250	5.32	500	3.58	3.58	64.44
0.000790	0.0201	5.64	635	3.56	3.56	68.00
0.000615	0.0156	6.00		3.73	3.73	71.73
0.000435	0.0110	6.50		4.91	4.91	76.64
0.000308	0.00781	7.00		4.57	4.57	81.21
0.000197	0.00500	7.65		5.24	5.24	86.45
0.000077	0.00195	9.00		8.26	8.26	94.71
0.000038	0.000977	10.00		3.51	3.51	98.22
0.000019	0.000488	11.00		1.62	1.62	99.84
0.000015	0.000375	11.38		0.16	0.16	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.20	0.0451	1.146
10	-0.07	0.0414	1.051
16	0.08	0.0373	0.948
25	0.32	0.0314	0.798
40	2.56	0.0067	0.170
50	4.05	0.0024	0.061
60	4.93	0.0013	0.033
75	6.33	0.0005	0.012
84	7.34	0.0002	0.006
90	8.23	0.0001	0.003
95	9.08	0.0001	0.002

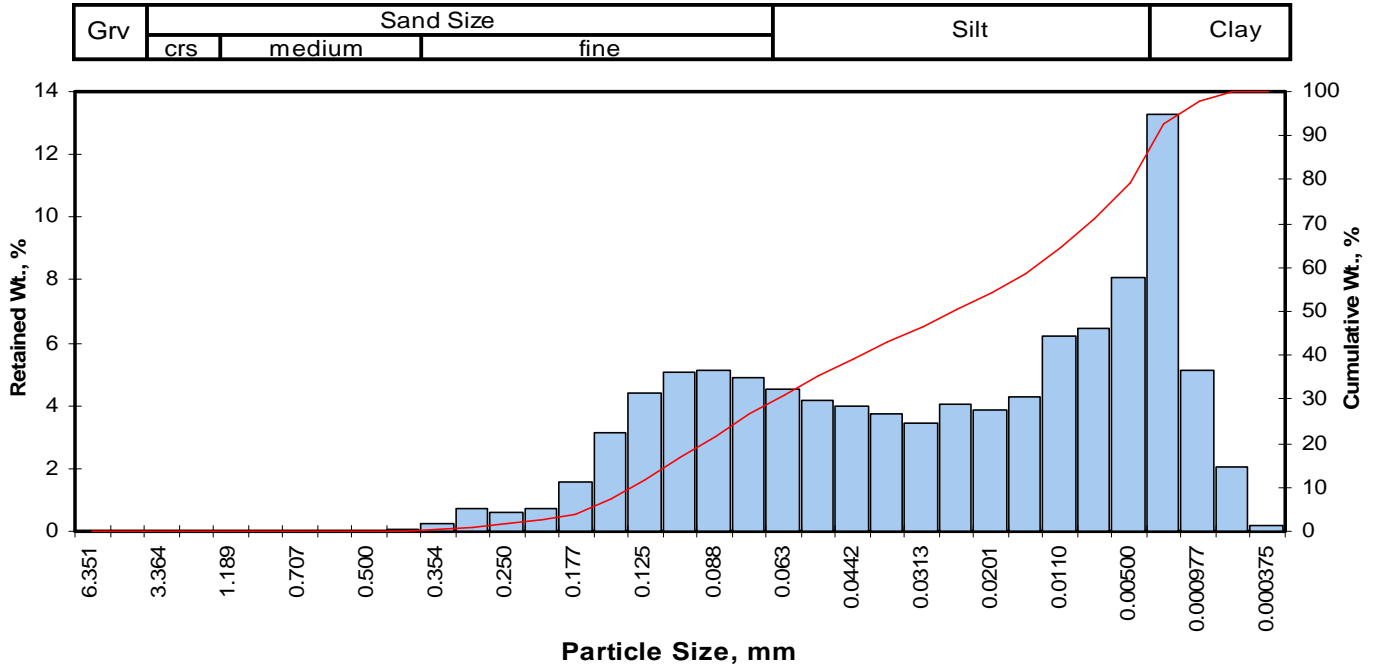
Measure	Trask	Inman	Folk-Ward
Median, phi	4.05	4.05	4.05
Median, in.	0.0024	0.0024	0.0024
Median, mm	0.061	0.061	0.061
Mean, phi	1.30	3.71	3.82
Mean, in.	0.0160	0.0030	0.0028
Mean, mm	0.405	0.076	0.071
Sorting	8.023	3.633	3.222
Skewness	1.643	-0.092	-0.003
Kurtosis	0.375	0.277	0.633

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	34.30
Fine Sand	200	13.87
Silt	>0.005 mm	38.27
Clay	<0.005 mm	13.55
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB22-87.7-88.0
Depth, ft: 87.7-88.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.05	0.04	0.05
0.0139	0.354	1.50	45	0.26	0.26	0.31
0.0117	0.297	1.75	50	0.75	0.75	1.05
0.0098	0.250	2.00	60	0.62	0.62	1.67
0.0083	0.210	2.25	70	0.74	0.74	2.41
0.0070	0.177	2.50	80	1.59	1.59	4.00
0.0059	0.149	2.75	100	3.14	3.14	7.14
0.0049	0.125	3.00	120	4.41	4.41	11.55
0.0041	0.105	3.25	140	5.06	5.06	16.61
0.0035	0.088	3.50	170	5.15	5.15	21.76
0.0029	0.074	3.75	200	4.90	4.90	26.65
0.0025	0.063	4.00	230	4.53	4.53	31.18
0.0021	0.053	4.25	270	4.19	4.19	35.37
0.00174	0.0442	4.50	325	3.96	3.96	39.33
0.00146	0.0372	4.75	400	3.72	3.72	43.05
0.00123	0.0313	5.00	450	3.44	3.44	46.48
0.000986	0.0250	5.32	500	4.03	4.03	50.51
0.000790	0.0201	5.64	635	3.84	3.84	54.35
0.000615	0.0156	6.00		4.29	4.29	58.64
0.000435	0.0110	6.50		6.23	6.23	64.87
0.000308	0.00781	7.00		6.45	6.45	71.31
0.000197	0.00500	7.65		8.07	8.07	79.38
0.000077	0.00195	9.00		13.30	13.29	92.67
0.000038	0.000977	10.00		5.12	5.12	97.79
0.000019	0.000488	11.00		2.03	2.03	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.58	0.0066	0.167
10	2.91	0.0052	0.133
16	3.22	0.0042	0.107
25	3.67	0.0031	0.079
40	4.55	0.0017	0.043
50	5.28	0.0010	0.026
60	6.11	0.0006	0.014
75	7.29	0.0003	0.006
84	8.12	0.0001	0.004
90	8.73	0.0001	0.002
95	9.45	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.28	5.28	5.28
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.026	0.026	0.026
Mean, phi	4.55	5.67	5.54
Mean, in.	0.0017	0.0008	0.0008
Mean, mm	0.043	0.020	0.022
Sorting	3.518	2.448	2.266
Skewness	0.870	0.159	0.187
Kurtosis	0.278	0.404	0.776

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.05
Fine Sand	200	26.61
Silt	>0.005 mm	52.73
Clay	<0.005 mm	20.62
Total		100

PARTICLE SIZE SUMMARY

(METHODOLOGY: Sieve + Laser Diffraction Analysis - ASTM D422/4464)

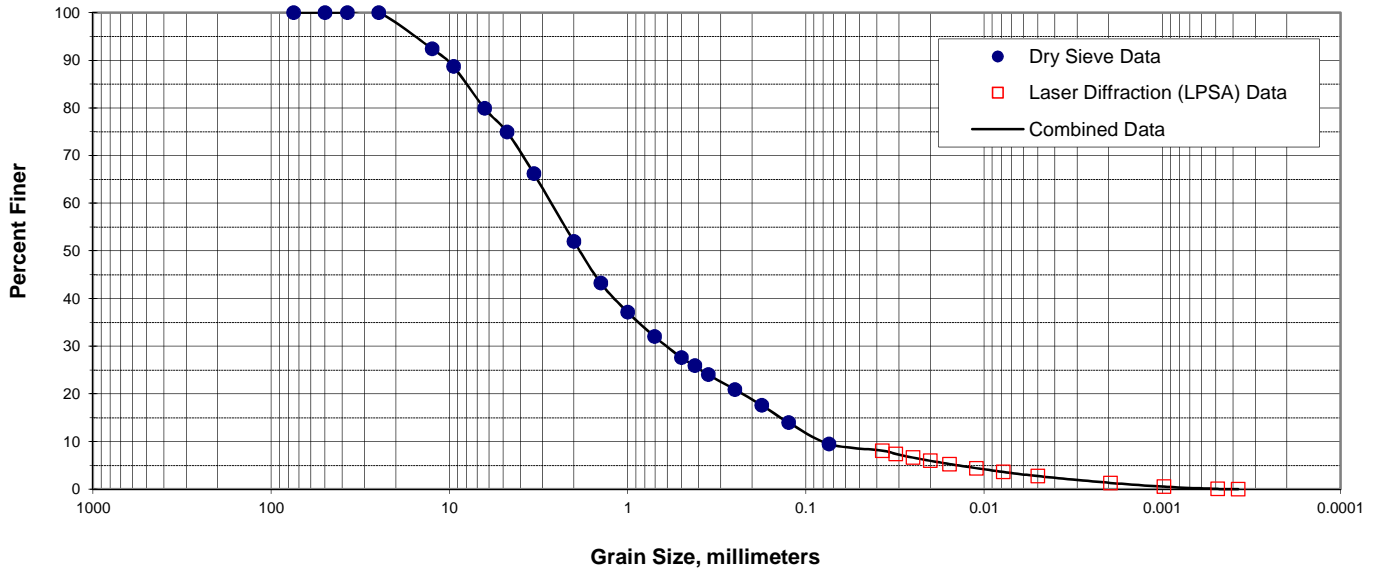
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3

Sample ID	Depth, ft.	Median Grain Size Description	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RIDB-20-15.5-16.0	15.5-16.0	Medium sand	1.849	25.03	22.99	26.06	16.43	6.75	2.74	9.49
PT-RIDB-20-21.5-22.0	21.5-22.0	Medium sand	1.094	16.23	20.88	29.03	17.59	10.63	5.65	16.27
PT-M-203-26.6-27.0	26.6-26.8	Silt	0.045	21.91	2.67	1.94	18.11	43.40	11.97	55.38
PT-RIDB12-17.5-17.8	17.5-17.8	Medium sand	1.016	20.42	18.01	25.13	20.80	10.74	4.90	15.64
PT-RIDB28-16.2-16.5	16.2-16.5	Coarse sand	2.986	41.30	14.52	14.46	14.74	5.80	9.17	14.98
PT-RIDB28-39.1-39.5	39.1-39.3	Silt	0.053	14.03	4.68	12.03	16.55	39.56	13.15	52.71
PT-RIDB28-88.7-89.0	88.7-89.0	Silt	0.051	14.68	7.03	6.92	17.93	38.96	14.48	53.44
PT-RIDB22-14.0-14.3	14.0-14.3	Medium sand	0.462	10.72	14.16	26.75	34.37	10.08	3.93	14.00
PT-RIDB22-18.2-18.5	18.2-18.5	Medium sand	1.434	18.67	21.88	39.29	15.15	3.95	1.06	5.01

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3D

PTS File No: 47178
 Sample ID: PT-RIDB-20-15.5-16.0
 Depth, ft: 15.5-16.0

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	7.60	92.40	0.047	1.189	-0.25	16	32.70	67.30
0.374	9.50	-3.25	3/8	11.32	88.68	0.033	0.841	0.25	20	49.61	50.39
0.250	6.35	-2.67	1/4	20.11	79.89	0.028	0.707	0.50	25	55.84	44.16
0.187	4.76	-2.25	4	25.03	74.97	0.023	0.595	0.75	30	60.91	39.09
0.132	3.36	-1.75	6	33.78	66.22	0.020	0.500	1.00	35	65.13	34.87
0.079	2.00	-1.00	10	48.02	51.98	0.017	0.420	1.25	40	68.66	31.34
0.056	1.414	-0.50	14	56.76	43.24	0.0139	0.3536	1.50	45	71.13	28.87
0.039	1.000	0.00	18	62.86	37.14	0.0117	0.2973	1.75	50	73.97	26.03
0.028	0.707	0.50	25	67.96	32.04	0.0098	0.2500	2.00	60	76.06	23.94
0.020	0.500	1.00	35	72.39	27.61	0.0083	0.2102	2.25	70	77.95	22.05
0.017	0.420	1.25	40	74.08	25.92	0.0070	0.1768	2.50	80	79.74	20.26
0.014	0.354	1.50	45	75.99	24.01	0.0059	0.1487	2.75	100	81.53	18.47
0.010	0.250	2.00	60	79.10	20.90	0.0049	0.1250	3.00	120	83.31	16.69
0.007	0.1768	2.50	80	82.39	17.61	0.0041	0.1051	3.25	140	84.99	15.01
0.005	0.1250	3.00	120	86.01	13.99	0.0035	0.0884	3.50	170	86.52	13.48
0.003	0.0743	3.75	200	90.51	9.49	0.0029	0.0743	3.75	200	87.90	12.10
0.002	0.0526	4.25	270	91.45	8.55	0.0025	0.0625	4.00	230	89.12	10.88
0.001	0.0372	4.75	400	91.64	8.36	0.0021	0.0526	4.25	270	90.19	9.81
			PAN	100	0.00	0.0017	0.0442	4.50	325	91.11	8.89
						0.0015	0.0372	4.75	400	91.91	8.09
						0.0012	0.0313	5.00	450	92.61	7.39
						0.0010	0.0250	5.32	500	93.38	6.62
						0.0008	0.0201	5.64	635	94.05	5.95
						0.0006	0.0156	6.00		94.73	5.27
						0.0004	0.0110	6.50		95.60	4.40
						0.0003	0.0078	7.00		96.38	3.62
						0.0002	0.0050	7.65		97.26	2.74
						0.00008	0.00195	9.00		98.69	1.31
						0.00004	0.00098	10.00		99.48	0.52
						0.00002	0.00049	11.00		99.95	0.05
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-20-15.5-16.0
Depth, ft: 15.5-16.0

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	7.6	92.4	7.6
0.374	9.50	-3.25	3/8	3.7	88.7	11.3
0.250	6.35	-2.67	1/4	8.8	79.9	20.1
0.1873	4.76	-2.25	4	4.9	75.0	25.0
0.1324	3.364	-1.75	6	8.7	66.2	33.8
0.0787	2.000	-1.00	10	14.2	52.0	48.0
0.0557	1.414	-0.50	14	8.7	43.2	56.8
0.0394	1.000	0.00	18	6.1	37.1	62.9
0.0278	0.707	0.50	25	5.1	32.0	68.0
0.0197	0.500	1.00	35	4.4	27.6	72.4
0.01655	0.420	1.25	40	1.7	25.9	74.1
0.01392	0.354	1.50	45	1.9	24.0	76.0
0.00984	0.2500	2.00	60	3.1	20.9	79.1
0.00696	0.1768	2.50	80	3.3	17.6	82.4
0.00492	0.1250	3.00	120	3.6	14.0	86.0
0.00293	0.0743	3.75	200	4.5	9.5	90.5
0.00146	0.0372	4.75	400	1.4	8.1	91.9
0.00123	0.0313	5.00	450	0.7	7.4	92.6
0.00099	0.0250	5.32	500	0.8	6.6	93.4
0.00079	0.0201	5.64	635	0.7	5.9	94.1
0.00062	0.0156	6.00		0.7	5.3	94.7
0.00043	0.0110	6.50		0.9	4.4	95.6
0.00031	0.0078	7.00		0.8	3.6	96.4
0.00020	0.0050	7.65		0.9	2.7	97.3
0.00008	0.0020	9.00		1.4	1.3	98.7
0.00004	0.0010	10.00		0.8	0.5	99.5
0.00002	0.0005	11.00		0.5	0.0	100.0
0.00001	0.0004	11.38		0.0	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.99	0.6240	15.850
10	-3.39	0.4124	10.475
16	-2.94	0.3019	7.668
25	-2.25	0.1876	4.766
40	-1.42	0.1055	2.680
50	-0.89	0.0728	1.849
60	-0.23	0.0463	1.177
75	1.37	0.0152	0.387
84	2.72	0.0060	0.151
90	3.67	0.0031	0.079
95	6.15	0.0006	0.014

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.89	-0.89	-0.89
Median, in.	0.0728	0.0728	0.0728
Median, mm	1.849	1.849	1.849
Mean, phi	-1.37	-0.11	-0.37
Mean, in.	0.1014	0.0424	0.0508
Mean, mm	2.576	1.078	1.290
Sorting	3.510	2.831	2.952
Skewness	0.734	0.275	0.332
Kurtosis	0.211	0.791	1.147

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

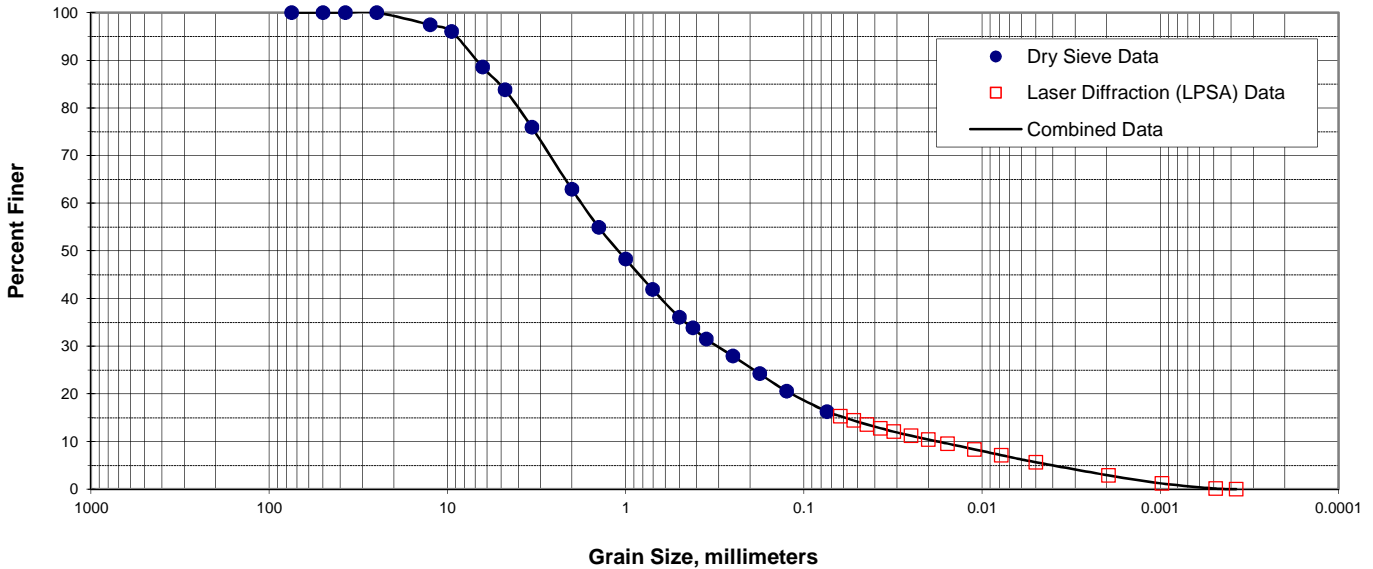
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	25.0
Coarse Sand	10	23.0
Medium Sand	40	26.1
Fine Sand	200	16.4
Silt	>0.005 mm	6.8
Clay	<0.005 mm	2.7
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3D

PTS File No: 47178
 Sample ID: PT-RIDB-20-21.5-22.0
 Depth, ft: 21.5-22.0

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	2.58	97.42	0.047	1.189	-0.25	16	26.69	73.31
0.374	9.50	-3.25	3/8	4.01	95.99	0.033	0.841	0.25	20	43.99	56.01
0.250	6.35	-2.67	1/4	11.45	88.55	0.028	0.707	0.50	25	50.89	49.11
0.187	4.76	-2.25	4	16.23	83.77	0.023	0.595	0.75	30	56.73	43.27
0.132	3.36	-1.75	6	24.06	75.94	0.020	0.500	1.00	35	61.72	38.28
0.079	2.00	-1.00	10	37.10	62.90	0.017	0.420	1.25	40	65.82	34.18
0.056	1.414	-0.50	14	45.05	54.95	0.0139	0.3536	1.50	45	68.53	31.47
0.039	1.000	0.00	18	51.73	48.27	0.0117	0.2973	1.75	50	71.45	28.55
0.028	0.707	0.50	25	58.06	41.94	0.0098	0.2500	2.00	60	73.56	26.44
0.020	0.500	1.00	35	63.97	36.03	0.0083	0.2102	2.25	70	75.47	24.53
0.017	0.420	1.25	40	66.14	33.86	0.0070	0.1768	2.50	80	77.16	22.84
0.014	0.354	1.50	45	68.52	31.48	0.0059	0.1487	2.75	100	78.62	21.38
0.010	0.250	2.00	60	72.09	27.91	0.0049	0.1250	3.00	120	79.96	20.04
0.007	0.1768	2.50	80	75.79	24.21	0.0041	0.1051	3.25	140	81.26	18.74
0.005	0.1250	3.00	120	79.43	20.57	0.0035	0.0884	3.50	170	82.50	17.50
0.003	0.0743	3.75	200	83.73	16.27	0.0029	0.0743	3.75	200	83.64	16.36
0.002	0.0526	4.25	270	84.27	15.73	0.0025	0.0625	4.00	230	84.66	15.34
0.001	0.0372	4.75	400	84.32	15.68	0.0021	0.0526	4.25	270	85.58	14.42
			PAN	100	0.00	0.0017	0.0442	4.50	325	86.42	13.58
						0.0015	0.0372	4.75	400	87.21	12.79
						0.0012	0.0313	5.00	450	87.94	12.06
						0.0010	0.0250	5.32	500	88.79	11.21
						0.0008	0.0201	5.64	635	89.57	10.43
						0.0006	0.0156	6.00		90.43	9.57
						0.0004	0.0110	6.50		91.64	8.36
						0.0003	0.0078	7.00		92.86	7.14
						0.0002	0.0050	7.65		94.35	5.65
						0.00008	0.00195	9.00		97.11	2.89
						0.00004	0.00098	10.00		98.82	1.18
						0.00002	0.00049	11.00		99.88	0.12
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB-20-21.5-22.0
Depth, ft: 21.5-22.0

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	2.6	97.4	2.6
0.374	9.50	-3.25	3/8	1.4	96.0	4.0
0.250	6.35	-2.67	1/4	7.4	88.6	11.4
0.1873	4.76	-2.25	4	4.8	83.8	16.2
0.1324	3.364	-1.75	6	7.8	75.9	24.1
0.0787	2.000	-1.00	10	13.0	62.9	37.1
0.0557	1.414	-0.50	14	7.9	54.9	45.1
0.0394	1.000	0.00	18	6.7	48.3	51.7
0.0278	0.707	0.50	25	6.3	41.9	58.1
0.0197	0.500	1.00	35	5.9	36.0	64.0
0.01655	0.420	1.25	40	2.2	33.9	66.1
0.01392	0.354	1.50	45	2.4	31.5	68.5
0.00984	0.2500	2.00	60	3.6	27.9	72.1
0.00696	0.1768	2.50	80	3.7	24.2	75.8
0.00492	0.1250	3.00	120	3.6	20.6	79.4
0.00293	0.0743	3.75	200	4.3	16.3	83.7
0.00246	0.0625	4.00	230	0.9	15.3	84.7
0.00207	0.0526	4.25	270	0.9	14.4	85.6
0.00174	0.0442	4.50	325	0.8	13.6	86.4
0.00146	0.0372	4.75	400	0.8	12.8	87.2
0.00123	0.0313	5.00	450	0.7	12.1	87.9
0.00099	0.0250	5.32	500	0.8	11.2	88.8
0.00079	0.0201	5.64	635	0.8	10.4	89.6
0.00062	0.0156	6.00		0.9	9.6	90.4
0.00043	0.0110	6.50		1.2	8.4	91.6
0.00031	0.0078	7.00		1.2	7.1	92.9
0.00020	0.0050	7.65		1.5	5.6	94.4
0.00008	0.0020	9.00		2.8	2.9	97.1
0.00004	0.0010	10.00		1.7	1.2	98.8
0.00002	0.0005	11.00		1.1	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0	100.0	100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.17	0.3544	9.003
10	-2.78	0.2704	6.868
16	-2.27	0.1899	4.823
25	-1.70	0.1276	3.240
40	-0.82	0.0694	1.763
50	-0.13	0.0431	1.094
60	0.66	0.0248	0.631
75	2.39	0.0075	0.190
84	3.82	0.0028	0.071
90	5.82	0.0007	0.018
95	7.96	0.0002	0.004

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.13	-0.13	-0.13
Median, in.	0.0431	0.0431	0.0431
Median, mm	1.094	1.094	1.094
Mean, phi	-0.78	0.78	0.47
Mean, in.	0.0675	0.0230	0.0283
Mean, mm	1.715	0.584	0.720
Sorting	4.126	3.047	3.210
Skewness	0.718	0.297	0.376
Kurtosis	0.223	0.827	1.116

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

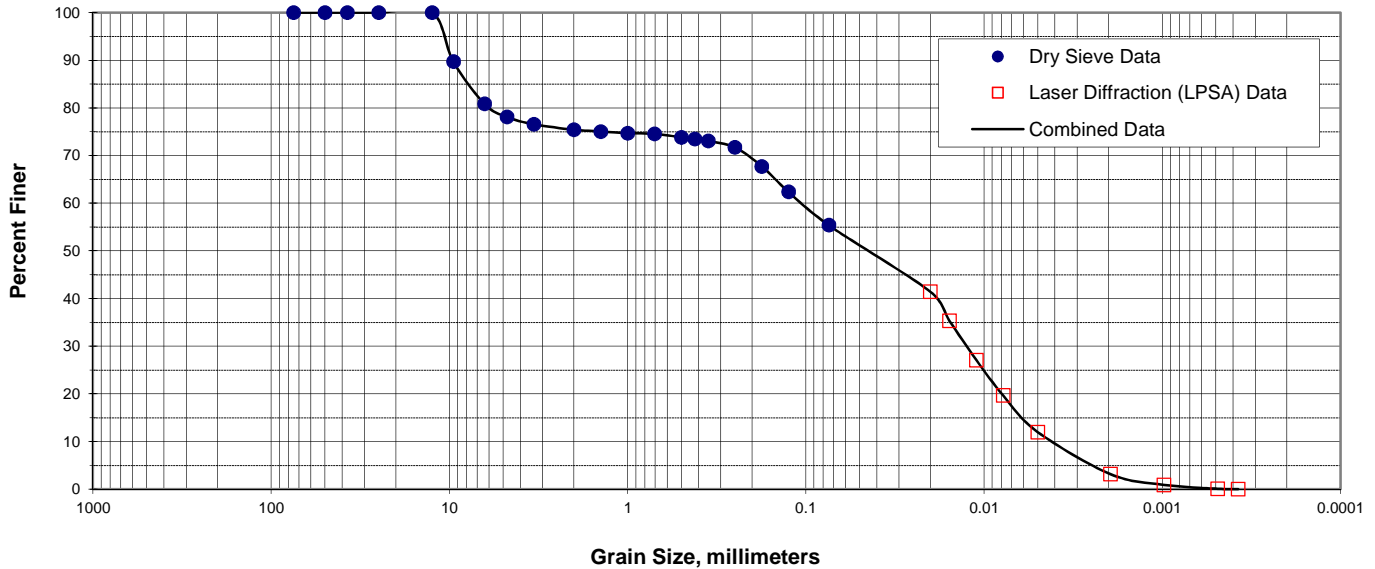
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	16.2
Coarse Sand	10	20.9
Medium Sand	40	29.0
Fine Sand	200	17.6
Silt	>0.005 mm	10.6
Clay	<0.005 mm	5.6
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3D

PTS File No: 47178
 Sample ID: PT-M-203-26.6-27.0
 Depth, ft: 26.6-26.8

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	0.02	99.98
0.374	9.50	-3.25	3/8	10.32	89.68	0.033	0.841	0.25	20	1.00	99.00
0.250	6.35	-2.67	1/4	19.18	80.82	0.028	0.707	0.50	25	2.00	98.00
0.187	4.76	-2.25	4	21.91	78.09	0.023	0.595	0.75	30	3.25	96.75
0.132	3.36	-1.75	6	23.44	76.56	0.020	0.500	1.00	35	4.60	95.40
0.079	2.00	-1.00	10	24.58	75.42	0.017	0.420	1.25	40	5.81	94.19
0.056	1.414	-0.50	14	24.97	75.03	0.0139	0.3536	1.50	45	6.64	93.36
0.039	1.000	0.00	18	25.31	74.69	0.0117	0.2973	1.75	50	7.65	92.35
0.028	0.707	0.50	25	25.44	74.56	0.0098	0.2500	2.00	60	8.57	91.43
0.020	0.500	1.00	35	26.17	73.83	0.0083	0.2102	2.25	70	9.64	90.36
0.017	0.420	1.25	40	26.52	73.48	0.0070	0.1768	2.50	80	10.93	89.07
0.014	0.354	1.50	45	26.92	73.08	0.0059	0.1487	2.75	100	12.60	87.40
0.010	0.250	2.00	60	28.30	71.70	0.0049	0.1250	3.00	120	14.77	85.23
0.007	0.1768	2.50	80	32.28	67.72	0.0041	0.1051	3.25	140	17.42	82.58
0.005	0.1250	3.00	120	37.63	62.37	0.0035	0.0884	3.50	170	20.53	79.47
0.003	0.0743	3.75	200	44.62	55.38	0.0029	0.0743	3.75	200	24.09	75.91
0.002	0.0526	4.25	270	47.44	52.56	0.0025	0.0625	4.00	230	28.09	71.91
0.001	0.0372	4.75	400	48.49	51.51	0.0021	0.0526	4.25	270	32.43	67.57
			PAN	100	0.00	0.0017	0.0442	4.50	325	37.09	62.91
						0.0015	0.0372	4.75	400	41.92	58.08
						0.0012	0.0313	5.00	450	46.79	53.21
						0.0010	0.0250	5.32	500	52.82	47.18
						0.0008	0.0201	5.64	635	58.55	41.45
						0.0006	0.0156	6.00		64.69	35.31
						0.0004	0.0110	6.50		72.91	27.09
						0.0003	0.0078	7.00		80.33	19.67
						0.0002	0.0050	7.65		88.03	11.97
						0.00008	0.00195	9.00		96.84	3.16
						0.00004	0.00098	10.00		99.09	0.91
						0.00002	0.00049	11.00		99.92	0.08
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-M-203-26.6-27.0
Depth, ft: 26.6-26.8

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	10.3	89.7	10.3
0.250	6.35	-2.67	1/4	8.9	80.8	19.2
0.1873	4.76	-2.25	4	2.7	78.1	21.9
0.1324	3.364	-1.75	6	1.5	76.6	23.4
0.0787	2.000	-1.00	10	1.1	75.4	24.6
0.0557	1.414	-0.50	14	0.4	75.0	25.0
0.0394	1.000	0.00	18	0.3	74.7	25.3
0.0278	0.707	0.50	25	0.1	74.6	25.4
0.0197	0.500	1.00	35	0.7	73.8	26.2
0.01655	0.420	1.25	40	0.3	73.5	26.5
0.01392	0.354	1.50	45	0.4	73.1	26.9
0.00984	0.2500	2.00	60	1.4	71.7	28.3
0.00696	0.1768	2.50	80	4.0	67.7	32.3
0.00492	0.1250	3.00	120	5.4	62.4	37.6
0.00293	0.0743	3.75	200	7.0	55.4	44.6
0.00079	0.0201	5.64	635	13.9	41.4	58.6
0.00062	0.0156	6.00		6.1	35.3	64.7
0.00043	0.0110	6.50		8.2	27.1	72.9
0.00031	0.0078	7.00		7.4	19.7	80.3
0.00020	0.0050	7.65		7.7	12.0	88.0
0.00008	0.0020	9.00		8.8	3.2	96.8
0.00004	0.0010	10.00		2.2	0.9	99.1
0.00002	0.0005	11.00		0.8	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.45	0.4309	10.945
10	-3.26	0.3773	9.582
16	-2.88	0.2890	7.340
25	-0.45	0.0539	1.369
40	3.25	0.0041	0.105
50	4.48	0.0018	0.045
60	5.72	0.0007	0.019
75	6.64	0.0004	0.010
84	7.31	0.0002	0.006
90	7.95	0.0002	0.004
95	8.72	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.48	4.48	4.48
Median, in.	0.0018	0.0018	0.0018
Median, mm	0.045	0.045	0.045
Mean, phi	0.54	2.22	2.97
Mean, in.	0.0271	0.0085	0.0050
Mean, mm	0.690	0.215	0.128
Sorting	11.688	5.092	4.390
Skewness	2.613	-0.445	-0.374
Kurtosis	0.071	0.195	0.703

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Trask Median)

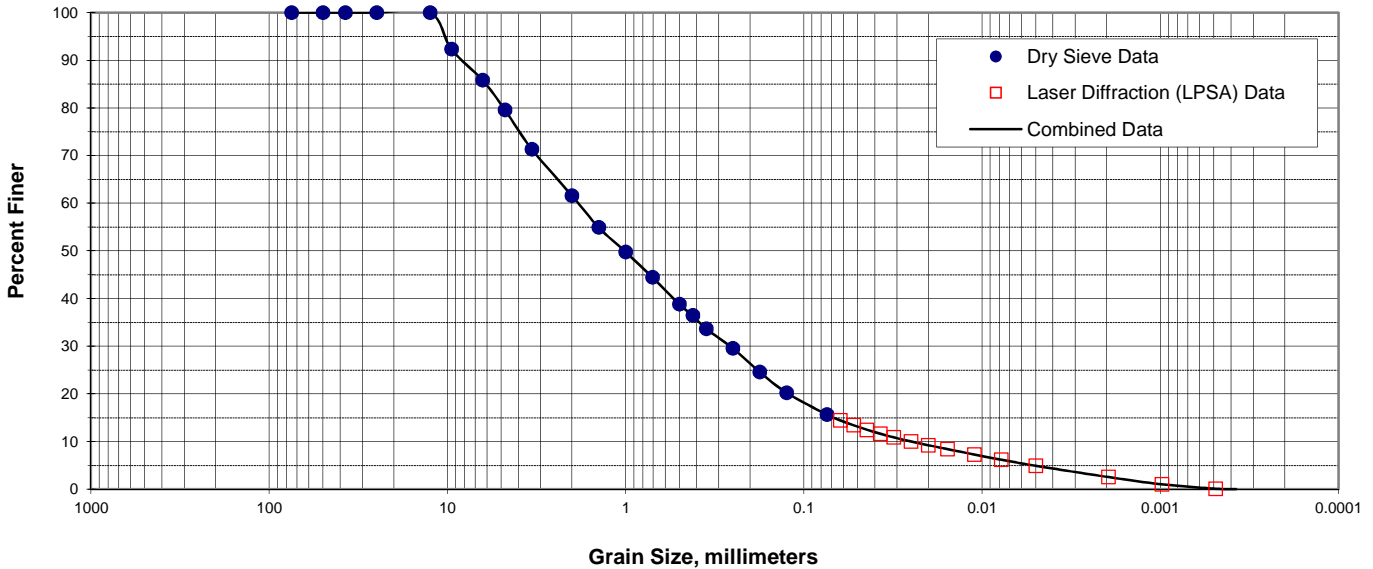
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	21.9
Coarse Sand	10	2.7
Medium Sand	40	1.9
Fine Sand	200	18.1
Silt	>0.005 mm	43.4
Clay	<0.005 mm	12.0
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3D

PTS File No: 47178
 Sample ID: PT-RIDB12-17.5-17.8
 Depth, ft: 17.5-17.8

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	22.50	77.50
0.374	9.50	-3.25	3/8	7.67	92.33	0.033	0.841	0.25	20	38.70	61.30
0.250	6.35	-2.67	1/4	14.19	85.81	0.028	0.707	0.50	25	45.79	54.21
0.187	4.76	-2.25	4	20.42	79.58	0.023	0.595	0.75	30	52.04	47.96
0.132	3.36	-1.75	6	28.66	71.34	0.020	0.500	1.00	35	57.49	42.51
0.079	2.00	-1.00	10	38.43	61.57	0.017	0.420	1.25	40	62.14	37.86
0.056	1.414	-0.50	14	45.09	54.91	0.0139	0.3536	1.50	45	65.42	34.58
0.039	1.000	0.00	18	50.24	49.76	0.0117	0.2973	1.75	50	69.21	30.79
0.028	0.707	0.50	25	55.56	44.44	0.0098	0.2500	2.00	60	71.93	28.07
0.020	0.500	1.00	35	61.21	38.79	0.0083	0.2102	2.25	70	74.27	25.73
0.017	0.420	1.25	40	63.56	36.44	0.0070	0.1768	2.50	80	76.33	23.67
0.014	0.354	1.50	45	66.33	33.67	0.0059	0.1487	2.75	100	78.21	21.79
0.010	0.250	2.00	60	70.46	29.54	0.0049	0.1250	3.00	120	79.96	20.04
0.007	0.1768	2.50	80	75.42	24.58	0.0041	0.1051	3.25	140	81.57	18.43
0.005	0.1250	3.00	120	79.76	20.24	0.0035	0.0884	3.50	170	83.03	16.97
0.003	0.0743	3.75	200	84.36	15.64	0.0029	0.0743	3.75	200	84.36	15.64
0.002	0.0526	4.25	270	85.17	14.83	0.0025	0.0625	4.00	230	85.55	14.45
0.001	0.0372	4.75	400	85.37	14.63	0.0021	0.0526	4.25	270	86.60	13.40
			PAN	100	0.00	0.0017	0.0442	4.50	325	87.54	12.46
						0.0015	0.0372	4.75	400	88.38	11.62
						0.0012	0.0313	5.00	450	89.14	10.86
						0.0010	0.0250	5.32	500	90.00	10.00
						0.0008	0.0201	5.64	635	90.77	9.23
						0.0006	0.0156	6.00		91.60	8.40
						0.0004	0.0110	6.50		92.73	7.27
						0.0003	0.0078	7.00		93.81	6.19
						0.0002	0.0050	7.65		95.10	4.90
						0.00008	0.00195	9.00		97.47	2.53
						0.00004	0.00098	10.00		98.98	1.02
						0.00002	0.00049	11.00		99.90	0.10
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB12-17.5-17.8
Depth, ft: 17.5-17.8

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	7.7	92.3	7.7
0.250	6.35	-2.67	1/4	6.5	85.8	14.2
0.1873	4.76	-2.25	4	6.2	79.6	20.4
0.1324	3.364	-1.75	6	8.2	71.3	28.7
0.0787	2.000	-1.00	10	9.8	61.6	38.4
0.0557	1.414	-0.50	14	6.7	54.9	45.1
0.0394	1.000	0.00	18	5.2	49.8	50.2
0.0278	0.707	0.50	25	5.3	44.4	55.6
0.0197	0.500	1.00	35	5.7	38.8	61.2
0.01655	0.420	1.25	40	2.4	36.4	63.6
0.01392	0.354	1.50	45	2.8	33.7	66.3
0.00984	0.2500	2.00	60	4.1	29.5	70.5
0.00696	0.1768	2.50	80	5.0	24.6	75.4
0.00492	0.1250	3.00	120	4.3	20.2	79.8
0.00293	0.0743	3.75	200	4.6	15.6	84.4
0.00246	0.0625	4.00	230	1.2	14.4	85.6
0.00207	0.0526	4.25	270	1.1	13.4	86.6
0.00174	0.0442	4.50	325	0.9	12.5	87.5
0.00146	0.0372	4.75	400	0.8	11.6	88.4
0.00123	0.0313	5.00	450	0.8	10.9	89.1
0.00099	0.0250	5.32	500	0.9	10.0	90.0
0.00079	0.0201	5.64	635	0.8	9.2	90.8
0.00062	0.0156	6.00		0.8	8.4	91.6
0.00043	0.0110	6.50		1.1	7.3	92.7
0.00031	0.0078	7.00		1.1	6.2	93.8
0.00020	0.0050	7.65		1.3	4.9	95.1
0.00008	0.0020	9.00		2.4	2.5	97.5
0.00004	0.0010	10.00		1.5	1.0	99.0
0.00002	0.0005	11.00		0.9	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0	100.0	100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.39	0.4115	10.453
10	-3.04	0.3239	8.227
16	-2.55	0.2299	5.840
25	-1.97	0.1545	3.923
40	-0.88	0.0726	1.843
50	-0.02	0.0400	1.016
60	0.89	0.0212	0.539
75	2.46	0.0072	0.182
84	3.69	0.0030	0.077
90	5.32	0.0010	0.025
95	7.59	0.0002	0.005

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.02	-0.02	-0.02
Median, in.	0.0400	0.0400	0.0400
Median, mm	1.016	1.016	1.016
Mean, phi	-1.04	0.57	0.37
Mean, in.	0.0808	0.0265	0.0304
Mean, mm	2.053	0.673	0.772
Sorting	4.642	3.118	3.223
Skewness	0.832	0.191	0.289
Kurtosis	0.228	0.761	1.016

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

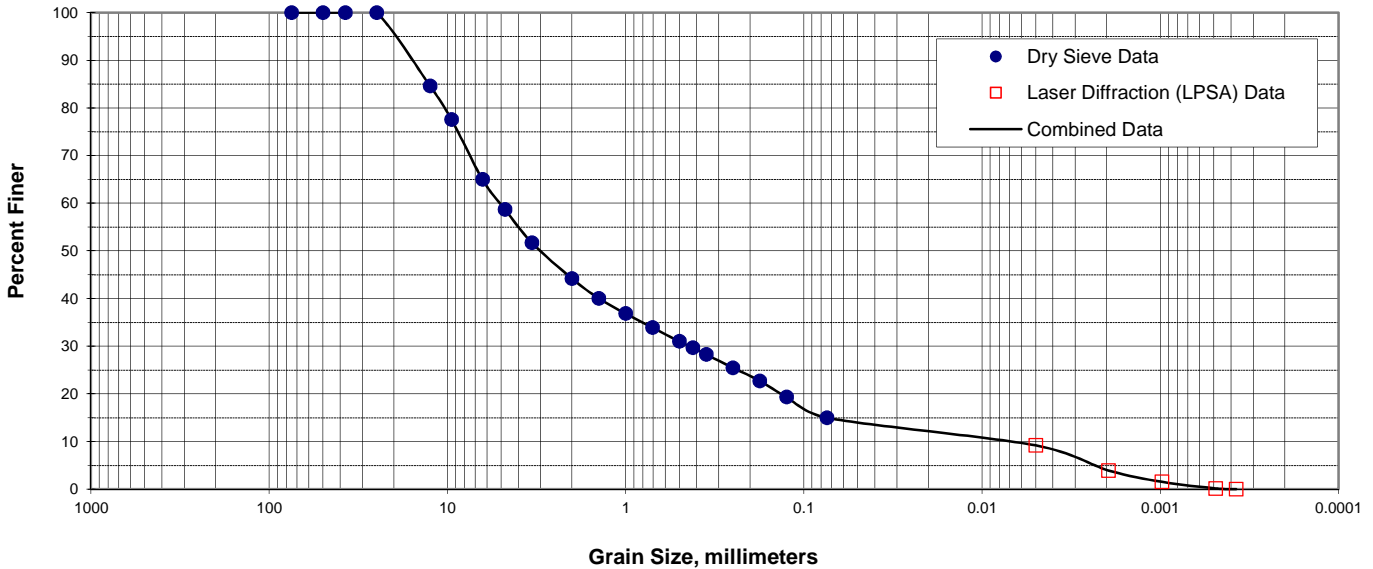
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	20.4
Coarse Sand	10	18.0
Medium Sand	40	25.1
Fine Sand	200	20.8
Silt	>0.005 mm	10.7
Clay	<0.005 mm	4.9
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB28-16.2-16.5
Depth, ft: 16.2-16.5

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	15.42	84.58	0.047	1.189	-0.25	16	10.89	89.11
0.374	9.50	-3.25	3/8	22.42	77.58	0.033	0.841	0.25	20	21.09	78.91
0.250	6.35	-2.67	1/4	35.03	64.97	0.028	0.707	0.50	25	25.78	74.22
0.187	4.76	-2.25	4	41.30	58.70	0.023	0.595	0.75	30	30.17	69.83
0.132	3.36	-1.75	6	48.27	51.73	0.020	0.500	1.00	35	34.39	65.61
0.079	2.00	-1.00	10	55.82	44.18	0.017	0.420	1.25	40	38.21	61.79
0.056	1.414	-0.50	14	59.96	40.04	0.0139	0.3536	1.50	45	40.95	59.05
0.039	1.000	0.00	18	63.15	36.85	0.0117	0.2973	1.75	50	44.10	55.90
0.028	0.707	0.50	25	66.09	33.91	0.0098	0.2500	2.00	60	46.47	53.53
0.020	0.500	1.00	35	69.01	30.99	0.0083	0.2102	2.25	70	48.76	51.24
0.017	0.420	1.25	40	70.29	29.71	0.0070	0.1768	2.50	80	51.04	48.96
0.014	0.354	1.50	45	71.74	28.26	0.0059	0.1487	2.75	100	53.41	46.59
0.010	0.250	2.00	60	74.54	25.46	0.0049	0.1250	3.00	120	55.88	44.12
0.007	0.1768	2.50	80	77.29	22.71	0.0041	0.1051	3.25	140	58.41	41.59
0.005	0.1250	3.00	120	80.69	19.31	0.0035	0.0884	3.50	170	60.95	39.05
0.003	0.0743	3.75	200	85.02	14.98	0.0029	0.0743	3.75	200	63.41	36.59
0.002	0.0526	4.25	270	85.50	14.50	0.0025	0.0625	4.00	230	65.70	34.30
0.001	0.0372	4.75	400	85.55	14.45	0.0021	0.0526	4.25	270	67.84	32.16
			PAN	100	0.00	0.0017	0.0442	4.50	325	69.88	30.12
						0.0015	0.0372	4.75	400	71.87	28.13
						0.0012	0.0313	5.00	450	73.81	26.19
						0.0010	0.0250	5.32	500	76.16	23.84
						0.0008	0.0201	5.64	635	78.39	21.61
						0.0006	0.0156	6.00		80.79	19.21
						0.0004	0.0110	6.50		84.10	15.90
						0.0003	0.0078	7.00		87.25	12.75
						0.0002	0.0050	7.65		90.83	9.17
						0.00008	0.00195	9.00		96.08	3.92
						0.00004	0.00098	10.00		98.47	1.53
						0.00002	0.00049	11.00		99.85	0.15
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB28-16.2-16.5
Depth, ft: 16.2-16.5

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	15.4	84.6	15.4
0.374	9.50	-3.25	3/8	7.0	77.6	22.4
0.250	6.35	-2.67	1/4	12.6	65.0	35.0
0.1873	4.76	-2.25	4	6.3	58.7	41.3
0.1324	3.364	-1.75	6	7.0	51.7	48.3
0.0787	2.000	-1.00	10	7.6	44.2	55.8
0.0557	1.414	-0.50	14	4.1	40.0	60.0
0.0394	1.000	0.00	18	3.2	36.8	63.2
0.0278	0.707	0.50	25	2.9	33.9	66.1
0.0197	0.500	1.00	35	2.9	31.0	69.0
0.01655	0.420	1.25	40	1.3	29.7	70.3
0.01392	0.354	1.50	45	1.5	28.3	71.7
0.00984	0.2500	2.00	60	2.8	25.5	74.5
0.00696	0.1768	2.50	80	2.8	22.7	77.3
0.00492	0.1250	3.00	120	3.4	19.3	80.7
0.00293	0.0743	3.75	200	4.3	15.0	85.0
0.00020	0.0050	7.65		5.8	9.2	90.8
0.00008	0.0020	9.00		5.3	3.9	96.1
0.00004	0.0010	10.00		2.4	1.5	98.5
0.00002	0.0005	11.00		1.4	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0	100.0	100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.32	0.7862	19.970
10	-4.00	0.6280	15.951
16	-3.61	0.4811	12.221
25	-3.13	0.3445	8.749
40	-2.34	0.1988	5.050
50	-1.58	0.1176	2.986
60	-0.49	0.0555	1.408
75	2.08	0.0093	0.236
84	3.57	0.0033	0.084
90	7.09	0.0003	0.007
95	8.72	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.58	-1.58	-1.58
Median, in.	0.1176	0.1176	0.1176
Median, mm	2.986	2.986	2.986
Mean, phi	-2.17	-0.02	-0.54
Mean, in.	0.1769	0.0399	0.0572
Mean, mm	4.493	1.013	1.453
Sorting	6.089	3.592	3.772
Skewness	0.481	0.434	0.507
Kurtosis	0.267	0.815	1.025

Grain Size Description Coarse sand
 (ASTM-USCS Scale) (based on Trask Median)

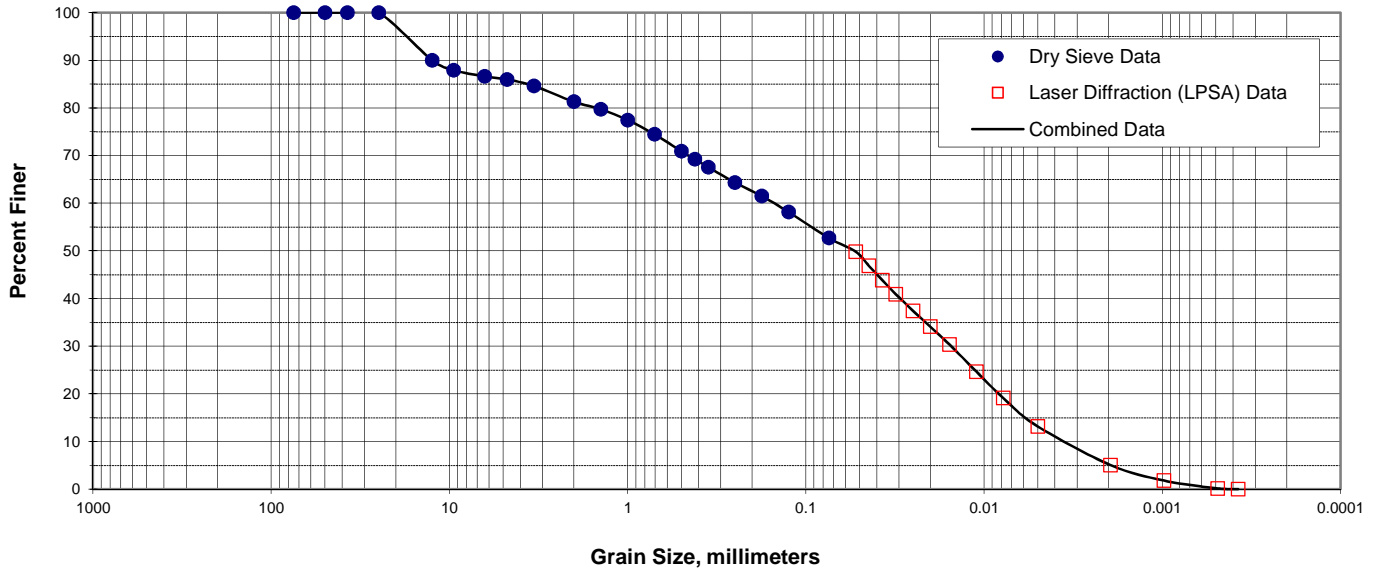
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	41.3
Coarse Sand	10	14.5
Medium Sand	40	14.5
Fine Sand	200	14.7
Silt	>0.005 mm	5.8
Clay	<0.005 mm	9.2
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3D

PTS File No: 47178
 Sample ID: PT-RIDB28-39.1-39.5
 Depth, ft: 39.1-39.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	10.01	89.99	0.047	1.189	-0.25	16	1.80	98.20
0.374	9.50	-3.25	3/8	12.08	87.92	0.033	0.841	0.25	20	8.69	91.31
0.250	6.35	-2.67	1/4	13.38	86.62	0.028	0.707	0.50	25	12.37	87.63
0.187	4.76	-2.25	4	14.03	85.97	0.023	0.595	0.75	30	16.20	83.80
0.132	3.36	-1.75	6	15.40	84.60	0.020	0.500	1.00	35	19.90	80.10
0.079	2.00	-1.00	10	18.72	81.28	0.017	0.420	1.25	40	22.97	77.03
0.056	1.414	-0.50	14	20.31	79.69	0.0139	0.3536	1.50	45	24.96	75.04
0.039	1.000	0.00	18	22.56	77.44	0.0117	0.2973	1.75	50	27.17	72.83
0.028	0.707	0.50	25	25.54	74.46	0.0098	0.2500	2.00	60	28.97	71.03
0.020	0.500	1.00	35	29.10	70.90	0.0083	0.2102	2.25	70	30.85	69.15
0.017	0.420	1.25	40	30.74	69.26	0.0070	0.1768	2.50	80	32.78	67.22
0.014	0.354	1.50	45	32.43	67.57	0.0059	0.1487	2.75	100	34.79	65.21
0.010	0.250	2.00	60	35.67	64.33	0.0049	0.1250	3.00	120	36.94	63.06
0.007	0.1768	2.50	80	38.50	61.50	0.0041	0.1051	3.25	140	39.25	60.75
0.005	0.1250	3.00	120	41.86	58.14	0.0035	0.0884	3.50	170	41.74	58.26
0.003	0.0743	3.75	200	47.29	52.71	0.0029	0.0743	3.75	200	44.40	55.60
0.002	0.0526	4.25	270	49.66	50.34	0.0025	0.0625	4.00	230	47.22	52.78
0.001	0.0372	4.75	400	50.65	49.35	0.0021	0.0526	4.25	270	50.14	49.86
			PAN	100	0.00	0.0017	0.0442	4.50	325	53.15	46.85
						0.0015	0.0372	4.75	400	56.16	43.84
						0.0012	0.0313	5.00	450	59.08	40.92
						0.0010	0.0250	5.32	500	62.57	37.43
						0.0008	0.0201	5.64	635	65.88	34.12
						0.0006	0.0156	6.00		69.65	30.35
						0.0004	0.0110	6.50		75.32	24.68
						0.0003	0.0078	7.00		80.86	19.14
						0.0002	0.0050	7.65		86.85	13.15
						0.00008	0.00195	9.00		94.94	5.06
						0.00004	0.00098	10.00		98.21	1.79
						0.00002	0.00049	11.00		99.84	0.16
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB28-39.1-39.5
Depth, ft: 39.1-39.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	10.0	90.0	10.0
0.374	9.50	-3.25	3/8	2.1	87.9	12.1
0.250	6.35	-2.67	1/4	1.3	86.6	13.4
0.1873	4.76	-2.25	4	0.7	86.0	14.0
0.1324	3.364	-1.75	6	1.4	84.6	15.4
0.0787	2.000	-1.00	10	3.3	81.3	18.7
0.0557	1.414	-0.50	14	1.6	79.7	20.3
0.0394	1.000	0.00	18	2.2	77.4	22.6
0.0278	0.707	0.50	25	3.0	74.5	25.5
0.0197	0.500	1.00	35	3.6	70.9	29.1
0.01655	0.420	1.25	40	1.6	69.3	30.7
0.01392	0.354	1.50	45	1.7	67.6	32.4
0.00984	0.2500	2.00	60	3.2	64.3	35.7
0.00696	0.1768	2.50	80	2.8	61.5	38.5
0.00492	0.1250	3.00	120	3.4	58.1	41.9
0.00293	0.0743	3.75	200	5.4	52.7	47.3
0.00207	0.0526	4.25	270	2.9	49.9	50.1
0.00174	0.0442	4.50	325	3.0	46.8	53.2
0.00146	0.0372	4.75	400	3.0	43.8	56.2
0.00123	0.0313	5.00	450	2.9	40.9	59.1
0.00099	0.0250	5.32	500	3.5	37.4	62.6
0.00079	0.0201	5.64	635	3.3	34.1	65.9
0.00062	0.0156	6.00		3.8	30.3	69.7
0.00043	0.0110	6.50		5.7	24.7	75.3
0.00031	0.0078	7.00		5.5	19.1	80.9
0.00020	0.0050	7.65		6.0	13.1	86.9
0.00008	0.0020	9.00		8.1	5.1	94.9
0.00004	0.0010	10.00		3.3	1.8	98.2
0.00002	0.0005	11.00		1.6	0.2	99.8
0.00001	0.0004	11.38		0.2	0.0	100.0
TOTALS				100.0	100.0	100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.14	0.6962	17.684
10	-3.64	0.4924	12.507
16	-1.61	0.1205	3.061
25	0.41	0.0296	0.753
40	2.72	0.0060	0.151
50	4.22	0.0021	0.053
60	5.08	0.0012	0.029
75	6.47	0.0004	0.011
84	7.34	0.0002	0.006
90	8.17	0.0001	0.003
95	9.02	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.22	4.22	4.22
Median, in.	0.0021	0.0021	0.0021
Median, mm	0.053	0.053	0.053
Mean, phi	1.39	2.86	3.32
Mean, in.	0.0150	0.0054	0.0040
Mean, mm	0.382	0.138	0.100
Sorting	8.173	4.476	4.232
Skewness	1.722	-0.304	-0.288
Kurtosis	0.030	0.470	0.890

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Trask Median)

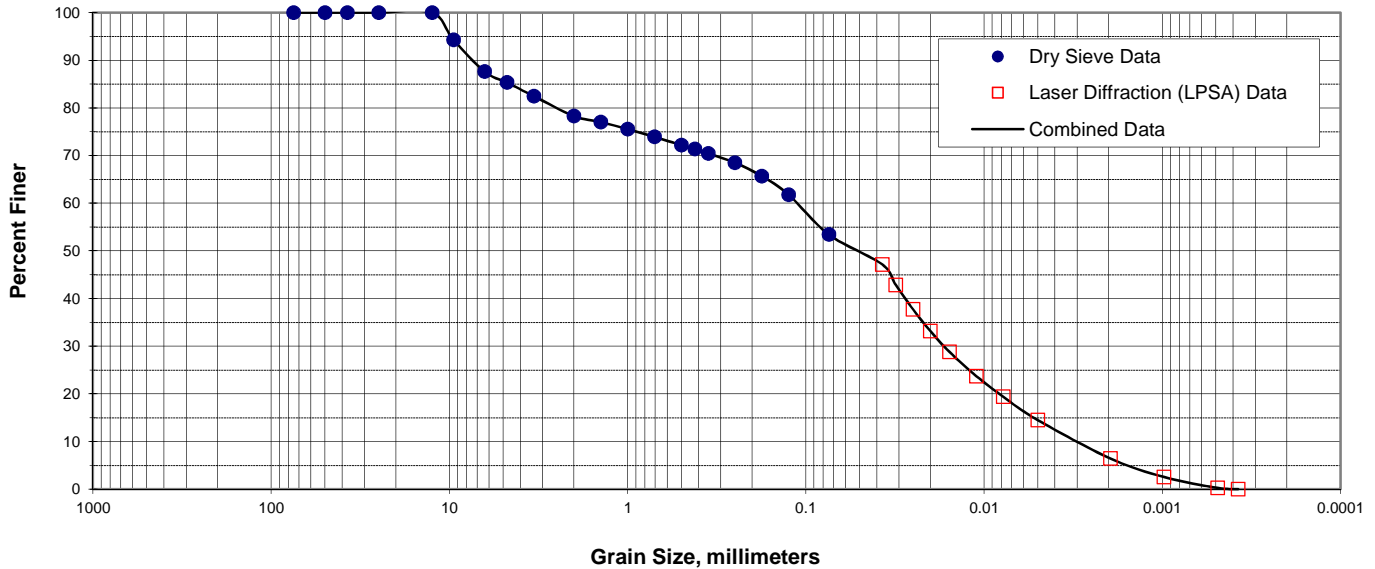
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	14.0
Coarse Sand	10	4.7
Medium Sand	40	12.0
Fine Sand	200	16.5
Silt	>0.005 mm	39.6
Clay	<0.005 mm	13.1
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3D

PTS File No: 47178
 Sample ID: PT-RIDB28-88.7-89.0
 Depth, ft: 88.7-89.0

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	1.84	98.16
0.374	9.50	-3.25	3/8	5.69	94.31	0.033	0.841	0.25	20	8.35	91.65
0.250	6.35	-2.67	1/4	12.37	87.63	0.028	0.707	0.50	25	10.93	89.07
0.187	4.76	-2.25	4	14.68	85.32	0.023	0.595	0.75	30	13.16	86.84
0.132	3.36	-1.75	6	17.53	82.47	0.020	0.500	1.00	35	15.22	84.78
0.079	2.00	-1.00	10	21.72	78.28	0.017	0.420	1.25	40	16.96	83.04
0.056	1.414	-0.50	14	22.96	77.04	0.0139	0.3536	1.50	45	18.07	81.93
0.039	1.000	0.00	18	24.45	75.55	0.0117	0.2973	1.75	50	19.22	80.78
0.028	0.707	0.50	25	26.09	73.91	0.0098	0.2500	2.00	60	20.13	79.87
0.020	0.500	1.00	35	27.80	72.20	0.0083	0.2102	2.25	70	21.15	78.85
0.017	0.420	1.25	40	28.64	71.36	0.0070	0.1768	2.50	80	22.37	77.63
0.014	0.354	1.50	45	29.57	70.43	0.0059	0.1487	2.75	100	23.97	76.03
0.010	0.250	2.00	60	31.50	68.50	0.0049	0.1250	3.00	120	26.13	73.87
0.007	0.1768	2.50	80	34.33	65.67	0.0041	0.1051	3.25	140	28.92	71.08
0.005	0.1250	3.00	120	38.20	61.80	0.0035	0.0884	3.50	170	32.24	67.76
0.003	0.0743	3.75	200	46.56	53.44	0.0029	0.0743	3.75	200	35.96	64.04
0.002	0.0526	4.25	270	49.90	50.10	0.0025	0.0625	4.00	230	39.95	60.05
0.001	0.0372	4.75	400	52.04	47.96	0.0021	0.0526	4.25	270	44.12	55.88
			PAN	100	0.00	0.0017	0.0442	4.50	325	48.46	51.54
						0.0015	0.0372	4.75	400	52.87	47.13
						0.0012	0.0313	5.00	450	57.17	42.83
						0.0010	0.0250	5.32	500	62.27	37.73
						0.0008	0.0201	5.64	635	66.81	33.19
						0.0006	0.0156	6.00		71.21	28.79
						0.0004	0.0110	6.50		76.29	23.71
						0.0003	0.0078	7.00		80.59	19.41
						0.0002	0.0050	7.65		85.52	14.48
						0.00008	0.00195	9.00		93.57	6.43
						0.00004	0.00098	10.00		97.46	2.54
						0.00002	0.00049	11.00		99.75	0.25
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB28-88.7-89.0
Depth, ft: 88.7-89.0

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	5.7	94.3	5.7
0.250	6.35	-2.67	1/4	6.7	87.6	12.4
0.1873	4.76	-2.25	4	2.3	85.3	14.7
0.1324	3.364	-1.75	6	2.8	82.5	17.5
0.0787	2.000	-1.00	10	4.2	78.3	21.7
0.0557	1.414	-0.50	14	1.2	77.0	23.0
0.0394	1.000	0.00	18	1.5	75.5	24.5
0.0278	0.707	0.50	25	1.6	73.9	26.1
0.0197	0.500	1.00	35	1.7	72.2	27.8
0.01655	0.420	1.25	40	0.8	71.4	28.6
0.01392	0.354	1.50	45	0.9	70.4	29.6
0.00984	0.2500	2.00	60	1.9	68.5	31.5
0.00696	0.1768	2.50	80	2.8	65.7	34.3
0.00492	0.1250	3.00	120	3.9	61.8	38.2
0.00293	0.0743	3.75	200	8.4	53.4	46.6
0.00146	0.0372	4.75	400	6.3	47.1	52.9
0.00123	0.0313	5.00	450	4.3	42.8	57.2
0.00099	0.0250	5.32	500	5.1	37.7	62.3
0.00079	0.0201	5.64	635	4.5	33.2	66.8
0.00062	0.0156	6.00		4.4	28.8	71.2
0.00043	0.0110	6.50		5.1	23.7	76.3
0.00031	0.0078	7.00		4.3	19.4	80.6
0.00020	0.0050	7.65		4.9	14.5	85.5
0.00008	0.0020	9.00		8.1	6.4	93.6
0.00004	0.0010	10.00		3.9	2.5	97.5
0.00002	0.0005	11.00		2.3	0.3	99.7
0.00001	0.0004	11.38		0.3	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.30	0.3867	9.823
10	-2.87	0.2885	7.328
16	-2.02	0.1596	4.053
25	0.17	0.0350	0.890
40	3.16	0.0044	0.112
50	4.30	0.0020	0.051
60	5.18	0.0011	0.028
75	6.37	0.0005	0.012
84	7.45	0.0002	0.006
90	8.40	0.0001	0.003
95	9.37	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.30	4.30	4.30
Median, in.	0.0020	0.0020	0.0020
Median, mm	0.051	0.051	0.051
Mean, phi	1.15	2.71	3.24
Mean, in.	0.0178	0.0060	0.0042
Mean, mm	0.451	0.152	0.106
Sorting	8.590	4.733	4.285
Skewness	2.035	-0.334	-0.267
Kurtosis	0.060	0.338	0.836

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Trask Median)

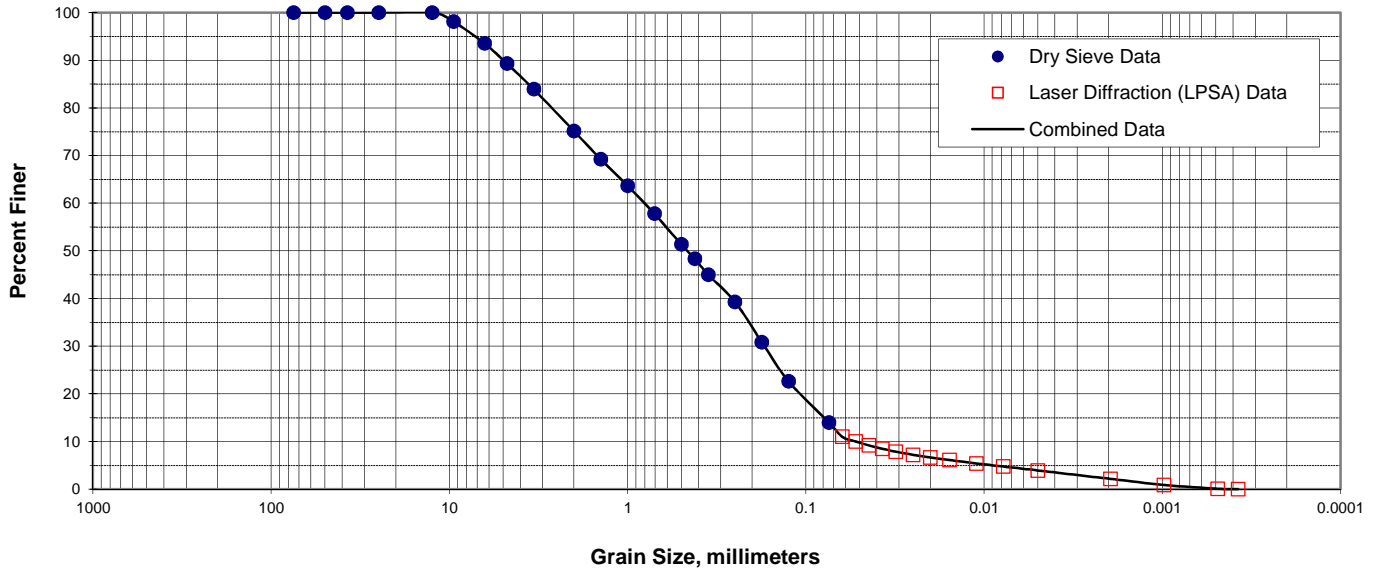
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	14.7
Coarse Sand	10	7.0
Medium Sand	40	6.9
Fine Sand	200	17.9
Silt	>0.005 mm	39.0
Clay	<0.005 mm	14.5
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3D

PTS File No: 47178
 Sample ID: PT-RIDB22-14.0-14.3
 Depth, ft: 14.0-14.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	22.11	77.89
0.374	9.50	-3.25	3/8	1.89	98.11	0.033	0.841	0.25	20	37.91	62.09
0.250	6.35	-2.67	1/4	6.48	93.52	0.028	0.707	0.50	25	44.56	55.44
0.187	4.76	-2.25	4	10.72	89.28	0.023	0.595	0.75	30	50.35	49.65
0.132	3.36	-1.75	6	16.09	83.91	0.020	0.500	1.00	35	55.66	44.34
0.079	2.00	-1.00	10	24.87	75.13	0.017	0.420	1.25	40	60.52	39.48
0.056	1.414	-0.50	14	30.77	69.23	0.0139	0.3536	1.50	45	64.09	35.91
0.039	1.000	0.00	18	36.35	63.65	0.0117	0.2973	1.75	50	68.32	31.68
0.028	0.707	0.50	25	42.21	57.79	0.0098	0.2500	2.00	60	71.52	28.48
0.020	0.500	1.00	35	48.66	51.34	0.0083	0.2102	2.25	70	74.53	25.47
0.017	0.420	1.25	40	51.63	48.37	0.0070	0.1768	2.50	80	77.38	22.62
0.014	0.354	1.50	45	54.98	45.02	0.0059	0.1487	2.75	100	80.04	19.96
0.010	0.250	2.00	60	60.70	39.30	0.0049	0.1250	3.00	120	82.46	17.54
0.007	0.1768	2.50	80	69.14	30.86	0.0041	0.1051	3.25	140	84.58	15.42
0.005	0.1250	3.00	120	77.36	22.64	0.0035	0.0884	3.50	170	86.36	13.64
0.003	0.0743	3.75	200	86.00	14.00	0.0029	0.0743	3.75	200	87.82	12.18
0.002	0.0526	4.25	270	87.03	12.97	0.0025	0.0625	4.00	230	89.01	10.99
0.001	0.0372	4.75	400	87.22	12.78	0.0021	0.0526	4.25	270	89.99	10.01
			PAN	100	0.00	0.0017	0.0442	4.50	325	90.82	9.18
						0.0015	0.0372	4.75	400	91.53	8.47
						0.0012	0.0313	5.00	450	92.14	7.86
						0.0010	0.0250	5.32	500	92.79	7.21
						0.0008	0.0201	5.64	635	93.34	6.66
						0.0006	0.0156	6.00		93.89	6.11
						0.0004	0.0110	6.50		94.59	5.41
						0.0003	0.0078	7.00		95.25	4.75
						0.0002	0.0050	7.65		96.07	3.93
						0.00008	0.00195	9.00		97.84	2.16
						0.00004	0.00098	10.00		99.11	0.89
						0.00002	0.00049	11.00		99.91	0.09
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB22-14.0-14.3
Depth, ft: 14.0-14.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	1.9	98.1	1.9
0.250	6.35	-2.67	1/4	4.6	93.5	6.5
0.1873	4.76	-2.25	4	4.2	89.3	10.7
0.1324	3.364	-1.75	6	5.4	83.9	16.1
0.0787	2.000	-1.00	10	8.8	75.1	24.9
0.0557	1.414	-0.50	14	5.9	69.2	30.8
0.0394	1.000	0.00	18	5.6	63.7	36.3
0.0278	0.707	0.50	25	5.9	57.8	42.2
0.0197	0.500	1.00	35	6.5	51.3	48.7
0.01655	0.420	1.25	40	3.0	48.4	51.6
0.01392	0.354	1.50	45	3.4	45.0	55.0
0.00984	0.2500	2.00	60	5.7	39.3	60.7
0.00696	0.1768	2.50	80	8.4	30.9	69.1
0.00492	0.1250	3.00	120	8.2	22.6	77.4
0.00293	0.0743	3.75	200	8.6	14.0	86.0
0.00246	0.0625	4.00	230	3.0	11.0	89.0
0.00207	0.0526	4.25	270	1.0	10.0	90.0
0.00174	0.0442	4.50	325	0.8	9.2	90.8
0.00146	0.0372	4.75	400	0.7	8.5	91.5
0.00123	0.0313	5.00	450	0.6	7.9	92.1
0.00099	0.0250	5.32	500	0.7	7.2	92.8
0.00079	0.0201	5.64	635	0.6	6.7	93.3
0.00062	0.0156	6.00		0.6	6.1	93.9
0.00043	0.0110	6.50		0.7	5.4	94.6
0.00031	0.0078	7.00		0.7	4.7	95.3
0.00020	0.0050	7.65		0.8	3.9	96.1
0.00008	0.0020	9.00		1.8	2.2	97.8
0.00004	0.0010	10.00		1.3	0.9	99.1
0.00002	0.0005	11.00		0.8	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0	100.0	100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.85	0.2848	7.233
10	-2.32	0.1967	4.996
16	-1.76	0.1332	3.383
25	-0.99	0.0782	1.985
40	0.31	0.0317	0.806
50	1.11	0.0182	0.462
60	1.94	0.0103	0.261
75	2.86	0.0054	0.138
84	3.58	0.0033	0.084
90	4.25	0.0021	0.052
95	6.81	0.0004	0.009

Measure	Trask	Inman	Folk-Ward
Median, phi	1.11	1.11	1.11
Median, in.	0.0182	0.0182	0.0182
Median, mm	0.462	0.462	0.462
Mean, phi	-0.09	0.91	0.98
Mean, in.	0.0418	0.0210	0.0200
Mean, mm	1.062	0.532	0.508
Sorting	3.792	2.667	2.798
Skewness	1.133	-0.076	0.051
Kurtosis	0.187	0.811	1.030

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

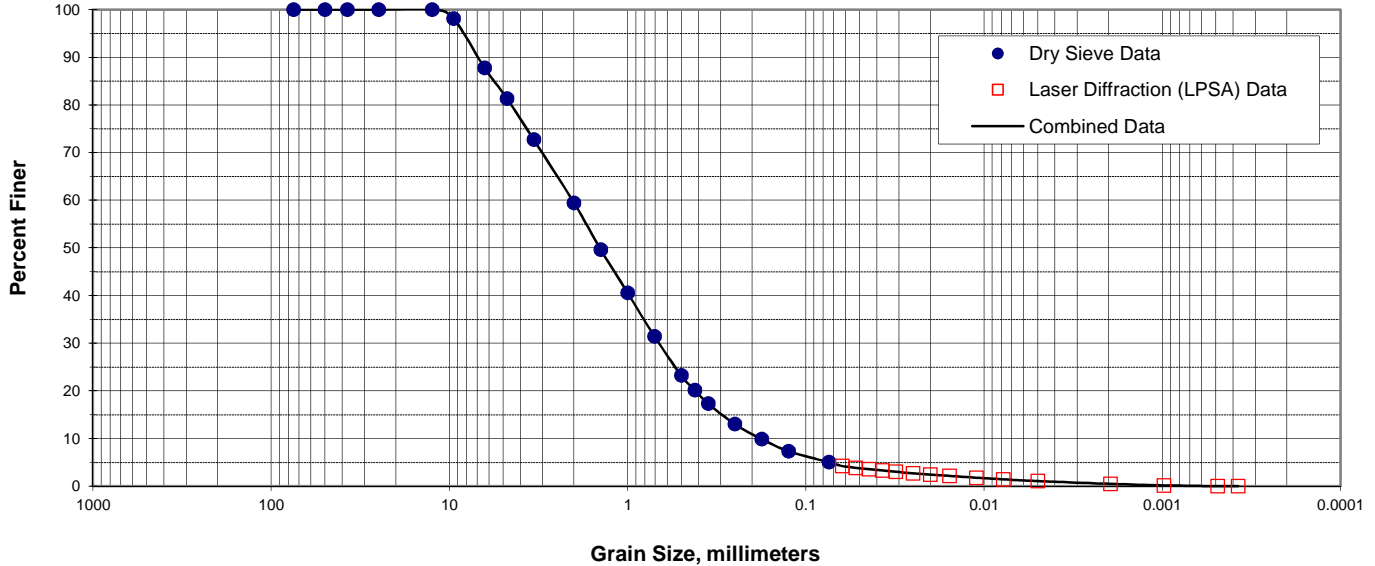
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	10.7
Coarse Sand	10	14.2
Medium Sand	40	26.8
Fine Sand	200	34.4
Silt	>0.005 mm	10.1
Clay	<0.005 mm	3.9
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB22-18.2-18.5
Depth, ft: 18.2-18.5

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	41.31	58.69
0.374	9.50	-3.25	3/8	1.87	98.13	0.033	0.841	0.25	20	61.02	38.98
0.250	6.35	-2.67	1/4	12.22	87.78	0.028	0.707	0.50	25	68.39	31.61
0.187	4.76	-2.25	4	18.67	81.33	0.023	0.595	0.75	30	74.52	25.48
0.132	3.36	-1.75	6	27.30	72.70	0.020	0.500	1.00	35	79.63	20.37
0.079	2.00	-1.00	10	40.55	59.45	0.017	0.420	1.25	40	83.60	16.40
0.056	1.414	-0.50	14	50.39	49.61	0.0139	0.3536	1.50	45	86.08	13.92
0.039	1.000	0.00	18	59.43	40.57	0.0117	0.2973	1.75	50	88.57	11.43
0.028	0.707	0.50	25	68.55	31.45	0.0098	0.2500	2.00	60	90.14	9.86
0.020	0.500	1.00	35	76.80	23.20	0.0083	0.2102	2.25	70	91.40	8.60
0.017	0.420	1.25	40	79.83	20.17	0.0070	0.1768	2.50	80	92.37	7.63
0.014	0.354	1.50	45	82.68	17.32	0.0059	0.1487	2.75	100	93.18	6.82
0.010	0.250	2.00	60	86.98	13.02	0.0049	0.1250	3.00	120	93.88	6.12
0.007	0.1768	2.50	80	90.11	9.89	0.0041	0.1051	3.25	140	94.47	5.53
0.005	0.1250	3.00	120	92.69	7.31	0.0035	0.0884	3.50	170	94.98	5.02
0.003	0.0743	3.75	200	94.99	5.01	0.0029	0.0743	3.75	200	95.41	4.59
0.002	0.0526	4.25	270	95.11	4.89	0.0025	0.0625	4.00	230	95.80	4.20
0.001	0.0372	4.75	400	95.14	4.86	0.0021	0.0526	4.25	270	96.14	3.86
			PAN	100	0.00	0.0017	0.0442	4.50	325	96.44	3.56
						0.0015	0.0372	4.75	400	96.73	3.27
						0.0012	0.0313	5.00	450	97.00	3.00
						0.0010	0.0250	5.32	500	97.30	2.70
						0.0008	0.0201	5.64	635	97.57	2.43
						0.0006	0.0156	6.00		97.85	2.15
						0.0004	0.0110	6.50		98.22	1.78
						0.0003	0.0078	7.00		98.56	1.44
						0.0002	0.0050	7.65		98.94	1.06
						0.00008	0.00195	9.00		99.52	0.48
						0.00004	0.00098	10.00		99.83	0.17
						0.00002	0.00049	11.00		100.00	0.00
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47178
Sample ID: PT-RIDB22-18.2-18.5
Depth, ft: 18.2-18.5

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	1.9	98.1	1.9
0.250	6.35	-2.67	1/4	10.3	87.8	12.2
0.1873	4.76	-2.25	4	6.5	81.3	18.7
0.1324	3.364	-1.75	6	8.6	72.7	27.3
0.0787	2.000	-1.00	10	13.2	59.5	40.5
0.0557	1.414	-0.50	14	9.8	49.6	50.4
0.0394	1.000	0.00	18	9.0	40.6	59.4
0.0278	0.707	0.50	25	9.1	31.4	68.6
0.0197	0.500	1.00	35	8.2	23.2	76.8
0.01655	0.420	1.25	40	3.0	20.2	79.8
0.01392	0.354	1.50	45	2.8	17.3	82.7
0.00984	0.2500	2.00	60	4.3	13.0	87.0
0.00696	0.1768	2.50	80	3.1	9.9	90.1
0.00492	0.1250	3.00	120	2.6	7.3	92.7
0.00293	0.0743	3.75	200	2.3	5.0	95.0
0.00246	0.0625	4.00	230	0.8	4.2	95.8
0.00207	0.0526	4.25	270	0.3	3.9	96.1
0.00174	0.0442	4.50	325	0.3	3.6	96.4
0.00146	0.0372	4.75	400	0.3	3.3	96.7
0.00123	0.0313	5.00	450	0.3	3.0	97.0
0.00099	0.0250	5.32	500	0.3	2.7	97.3
0.00079	0.0201	5.64	635	0.3	2.4	97.6
0.00062	0.0156	6.00		0.3	2.2	97.8
0.00043	0.0110	6.50		0.4	1.8	98.2
0.00031	0.0078	7.00		0.3	1.4	98.6
0.00020	0.0050	7.65		0.4	1.1	98.9
0.00008	0.0020	9.00		0.6	0.5	99.5
0.00004	0.0010	10.00		0.3	0.2	99.8
0.00002	0.0005	11.00		0.2	0.0	100.0
0.00001	0.0004	11.38		0.0	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.07	0.3311	8.410
10	-2.79	0.2726	6.923
16	-2.42	0.2111	5.361
25	-1.88	0.1452	3.689
40	-1.03	0.0804	2.043
50	-0.52	0.0565	1.434
60	0.03	0.0385	0.979
75	0.89	0.0212	0.539
84	1.65	0.0125	0.318
90	2.48	0.0070	0.179
95	3.75	0.0029	0.074

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.52	-0.52	-0.52
Median, in.	0.0565	0.0565	0.0565
Median, mm	1.434	1.434	1.434
Mean, phi	-1.08	-0.38	-0.43
Mean, in.	0.0832	0.0514	0.0530
Mean, mm	2.114	1.305	1.347
Sorting	2.616	2.038	2.053
Skewness	0.984	0.066	0.159
Kurtosis	0.234	0.675	1.008

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	18.7
Coarse Sand	10	21.9
Medium Sand	40	39.3
Fine Sand	200	15.2
Silt	>0.005 mm	4.0
Clay	<0.005 mm	1.1
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RIDB-4-18.6-19.0	18.6	20170520	1005	SOIL	260	2.60E-04
PT-RIDB-4-22.0-22.6	22.0	20170520	1005	SOIL	370	3.70E-04
PT-RIDB-4-24.5-25.0	24.5	20170520	1005	SOIL	190	1.90E-04
PT-RIDB-4-28.0-28.5	28.0	20170520	1005	SOIL	280	2.80E-04
PT-RIDB-4-34.9-35.4	34.9	20170520	1005	SOIL	<100	<1.00E-04
PT-RIDB-4-44.0-44.4	44.0	20170520	1005	SOIL	<100	<1.00E-04
PT-RIDB-4-55.4-55.9	55.4	20170520	1005	SOIL	<100	<1.00E-04
PT-RIDB-4-67.5-67.8	67.5	20170520	1005	SOIL	100	1.00E-04
PT-RIDB-4-74.1-74.5	74.1	20170520	1005	SOIL	290	2.90E-04
PT-RIDB18-68.5-68.8	68.5-68.8	20170520	1005	SOIL	100	1.00E-04

Blank	N/A	20170520	1005	BLANK	ND	ND
SRM D093-542	N/A	20170520	1005	SRM	5930	5.93E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg Lower	Upper
SRM D093-542	106	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RIDB18-72.0-72.5	72.0	20170531	1130	SOIL	300	3.00E-04
PT-RIDB27-85.5-85.8	85.5-85.8	20170531	1130	SOIL	400	4.00E-04
PT-RIDB-20-15.5-16.0	15.5-16.0	20170531	1130	SOIL	400	4.00E-04
PT-RIDB-20-21.5-22.0	21.5-22.0	20170531	1130	SOIL	1050	1.05E-03
PT-RIDB-20-35.9-36.3	35.9	20170531	1130	SOIL	1300	1.30E-03
PT-RIDB-20-46.6-47.0	46.6	20170531	1130	SOIL	380	3.80E-04
PT-RIDB-20-53.7-54.1	53.7	20170531	1130	SOIL	2050	2.05E-03
PT-RIDB-20-60.9-61.4	60.9	20170531	1130	SOIL	680	6.80E-04
PT-RIDB-20-65.8-66.2	65.8	20170531	1130	SOIL	1150	1.15E-03
PT-RIDB-20-82.9-83.2	82.9	20170531	1130	SOIL	750	7.50E-04
PT-RIDB-7-23.0-23.7	23.7	20170531	1130	SOIL	480	4.80E-04
PT-RIDB-7-30.9-31.4	31.4	20170531	1130	SOIL	580	5.80E-04
PT-RIDB-7-33.8-34.5	34.5	20170531	1130	SOIL	390	3.90E-04
PT-RIDB-7-37.0-37.5	37.5	20170531	1130	SOIL	690	6.90E-04
PT-RIDB-7-41.5-42.0	42.0	20170531	1130	SOIL	290	2.90E-04
PT-RIDB-7-54.1-54.5	54.5	20170531	1130	SOIL	290	2.90E-04
PT-RIDB-7-66.1-66.7	66.7	20170531	1130	SOIL	<100	<1.00E-04
PT-RIDB-7-83.2-83.6	83.6	20170531	1130	SOIL	100	1.00E-04
PT-M-203-8.0-8.4	8.0-8.4	20170531	1130	SOIL	100	1.00E-04
PT-M-203-13.6-14.0	14.0	20170531	1130	SOIL	290	2.90E-04
Blank	N/A	20170531	1130	BLANK	ND	ND
SRM D093-542	N/A	20170531	1130	SRM	5950	5.95E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg Lower	Upper
SRM D093-542	106	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-M-203-18.0-18.4	18.0	20170601	1315	SOIL	2500	2.50E-03
PT-M-203-26.6-27.0	26.6	20170601	1315	SOIL	1050	1.05E-03
PT-M-203-31.2-31.6	31.2	20170601	1315	SOIL	480	4.80E-04
PT-M-203-41.3-41.7	44.3	20170601	1315	SOIL	770	7.70E-04
PT-M-203-50.7-51.0	50.7	20170601	1315	SOIL	560	5.60E-04
PT-RIDB19-72.3-72.6	72.3	20170601	1315	SOIL	300	3.00E-04
PT-RIDB19-77.4-77.8	77.4	20170601	1315	SOIL	660	6.60E-04
PT-RIDB19-84.1-84.5	84.1	20170601	1315	SOIL	560	5.60E-04
PT-RIDB12-17.5-17.8	17.5	20170601	1315	SOIL	480	4.80E-04
PT-RIDB12-28.0-28.5	28.0	20170601	1315	SOIL	680	6.80E-04
PT-RIDB12-33.6-34.0	34.0	20170601	1315	SOIL	460	4.60E-04
PT-RIDB12-68.6-69.0	68.6-69.0	20170601	1315	SOIL	290	2.90E-04
PT-RIDB12-71.0-71.3	71.0-71.3	20170601	1315	SOIL	480	4.80E-04
PT-RIDB12-74.5-75.0	75.0	20170601	1315	SOIL	660	6.60E-04
PT-RIDB12-84.5-85.0	84.5	20170601	1315	SOIL	850	8.50E-04
PT-RIDB28-16.2-16.5	16.2	20170601	1315	SOIL	680	6.80E-04
PT-RIDB28-37.2-37.5	37.2	20170601	1315	SOIL	760	7.60E-04
PT-RIDB28-39.1-39.5	39.1	20170601	1315	SOIL	780	7.80E-04
PT-RIDB28-68.5-69.0	68.5	20170601	1315	SOIL	680	6.80E-04
PT-RIDB28-85.5-85.8	85.5	20170601	1315	SOIL	560	5.60E-04
Blank	N/A	20170601	1315	BLANK	ND	ND
SRM D093-542	N/A	20170601	1315	SRM	6380	6.38E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	114	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47178
 Client: Ramboll Environ
 Report Date: 08/18/17

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RIDB28-88.7-89.0	88.7	20170602	1110	SOIL	480	4.80E-04
PT-M220-62.0-62.4	62.0	20170602	1110	SOIL	570	5.70E-04
PT-RIDB22-14.0-14.3	14.0	20170602	1110	SOIL	570	5.70E-04
PT-RIDB22-18.2-18.5	18.2	20170602	1110	SOIL	380	3.80E-04
PT-RIDB22-42.9-43.3	42.9	20170602	1110	SOIL	670	6.70E-04
PT-RIDB22-71.6-72.0	71.6	20170602	1110	SOIL	760	7.60E-04
PT-RIDB22-87.7-88.0	87.7	20170602	1110	SOIL	560	5.60E-04

Blank	N/A	20170602	1110	BLANK	ND	ND
SRM D093-542	N/A	20170602	1110	SRM	6250	6.25E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	112	75-125	5590	4193	6988

ND = Not Detected

CHAIN-OF-CUSTODY FORM

No. 12989 47178

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #

PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manon
 PROJECT LOCATION Henderson, NV DATE 3/29/17 PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400C, M03B LABORATORY PTS
 SAMPLER Amy Manon YEAR 2017 SIGNATURE Amy Manon

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	HOLD*	COMMENTS
✓ PT-RIDB-4-18.6-19.0	3/13/17	1050	18.6-19.0	✓	S	1	U	NO		XXXX	
✓ PT-RIDB-4-22.0-22.6		1100	22.0-22.6							XXXX	* Hold samples pending further instruction from J. Donovan/Ramboll Environ
✓ PT-RIDB-4-24.5-25.0		1105	24.5-25.0							XXXX	
✓ PT-RIDB-4-28.0-28.5		1115	28.0-28.5							XXXX	
✓ PT-RIDB-4-34.9-35.4		1125	34.9-35.4							XXXX	
✓ PT-RIDB-4-44.0-44.4		1135	44.0-44.4							XXXX	
✓ PT-RIDB-4-55.4-55.9		1145	55.4-55.9							XXXX	
✓ PT-RIDB-4-67.5-67.8	✓	1155	67.5-67.8							XXXX	
✓ PT-RIDB-4-74.1-74.5	3/13/17	1210	74.1-74.5							XXXX	
✓ PT-RIDB18-68.5-68.8	3/23/17	1259	68.5-68.8	✓	✓	✓	✓	✓		XXXX	
✓ PT-RIDB18-72.0-72.5	3/23/17	1307	72.0-72.5							XXXX	
✓ PT-RIDB27-85.5-85.8	3/23/17	1504	85.5-85.8	✓	S	1	U	NO		XXXX	
TOTAL						12					

H = HCL; N = HNO; S = H2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY <i>Amy Manon</i> (FedEx)	TIME/DATE 1400 / 3/29/17	RECEIVED BY COMPANY <i>Guam Lopez</i> PTS LABS INC	TIME/DATE 3/30/17 1100	TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____
				SAMPLE INTEGRITY INTACT Y N

- SWBU Office Locations:
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 - 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No 12991

47178

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manion
 PROJECT LOCATION Henderson, NV DATE 3/29/17 PROJECT MANAGER Ross Russell
 PROJECT NUMBER 21414006, M03B LABORATORY PTS
 SAMPLER Amy Manion/Alex Marr YEAR 2017 SIGNATURE Amy M

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RIDB-20-15.5-16.0	3/13/17	0800	15.5-16.0	✓	S	1	U	NO	HOLD*	
PT-RIDB-20-21.5-22.0		0815	21.5-22.0						XXXXX	* Hold samples pending further instructions from J. Donovan/Ramboll Environ
PT-RIDB-20-35.9-36.3		0845	35.9-36.3						XXXXX	
PT-RIDB-20-46.6-47.0		0855	46.6-47.0						XXXXX	
PT-RIDB-20-53.7-54.1		0900	53.7-54.1						XXXXX	
PT-RIDB-20-60.9-61.4		0910	60.9-61.4						XXXXX	
PT-RIDB-20-65.8-66.2	✓	0920	65.8-66.2						XXXXX	
PT-RIDB-20-82.9-83.2	3/13/17	0930	82.9-83.2						XXXXX	
PT-RIDB-7-23.0-23.7	3/14/17	1410	23.0-23.7						XXXXX	
PT-RIDB-7-30.9-31.4		1420	30.9-31.4						XXXXX	
PT-RIDB-7-33.8-34.5	✓	1430	33.8-34.5	✓	✓	✓	✓	✓	XXXXX	
PT-RIDB-7-37.0-37.5	3/14/17	1433	37.0-37.5	✓	S	1	U	NO	XXXXX	
TOTAL						12				

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY <u>Amy M</u> (FedEx)	TIME/DATE 1400 / 3/29/17	RECEIVED BY COMPANY <u>Jelirame Lopez PTS LABS, INC</u>	TIME/DATE 3/30/17 1100	TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
		SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

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 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No 12992

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #

PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Marion
 PROJECT LOCATION Henderson, NV DATE 3/29/17 PROJECT MANAGER Ross Russell
 PROJECT NUMBER 21411000, M03B LABORATORY PTS
 SAMPLER Amy Marion/Alex Marr YEAR 2017 SIGNATURE Amy M

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RIDB-7-41.5-42.0	3/14/17	1438	41.5-42.0	✓	S	1	U	NO	XXXXX	
PT-RIDB-7-54.1-54.5	↓	1442	54.1-54.5	↓	↓	↓	↓	↓	XXXXX	* Hold samples pending further instruction from J. Donovan/Ramboll Environ
PT-RIDB-7-66.1-66.7	↓	1610	66.1-66.7	↓	↓	↓	↓	↓	XXXXX	
PT-RIDB-7-83.2-83.6	3/14/17	1618	83.2-83.6	↓	↓	↓	↓	↓	XXXXX	
PT-M-203-8.0-8.4	3/15/17	1100	8.0-8.4	↓	↓	↓	↓	↓	XXXXX	
PT-M-203-13.6-14.0	3/15/17	1105	13.6-14.0	↓	↓	↓	↓	↓	XXXXX	
PT-M-203-18.0-18.4	3/23/17	1240	18.0-18.4	↓	↓	↓	↓	↓	XXXXX	
PT-M-203-26.6-27.0	3/23/17	1248	26.6-27.0	↓	↓	↓	↓	↓	XXXXX	
PT-M-203-31.2-31.6	3/15/17	1113	31.2-31.6	↓	↓	↓	↓	↓	XXXXX	
PT-M-203-41.3-41.7	3/15/17	1120	41.3-41.7	↓	↓	↓	↓	↓	XXXXX	
PT-M-203-50.7-51.0	3/15/17	1125	50.7-51.0	✓	✓	✓	✓	✓	XXXXX	
PT-RIDB19-72.3-72.6	3/23/17	1314	72.3-72.6	✓	S	1	U	NO	XXXXX	
TOTAL						12				

H = HCL; N = HNO; S = H2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY <u>Amy M (FedEx)</u>	TIME/DATE <u>1400 / 3/29/17</u>	RECEIVED BY COMPANY <u>Johanna for PTS Labs Inc</u>	TIME/DATE <u>3/30/17 1100</u>	TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
		SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

- SWBU Office Locations:
- 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 - 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 - 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 - 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No. 12990 47178

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manion
 PROJECT LOCATION Henderson, NV DATE 3/29/17 PROJECT MANAGER Ross Russell
 PROJECT NUMBER 21414000, M03B LABORATORY PTS
 SAMPLER Amy Manion/Alex Marr YEAR 2017 SIGNATURE Amy M

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RIDB19-77.4-77.8	3/23/17	1321	77.4-77.8	✓	S	1	U	NO	X	* Hold samples pending further instruction from J. Donovan/Ramboll Environ
PT-RIDB19-84.1-84.5		1328	84.1-84.5						X	
PT-RIDB12-17.5-17.8		1610	17.5-17.8						X	
PT-RIDB12-28.0-28.5		1616	28.0-28.5						X	
PT-RIDB12-33.6-34.0		1624	33.6-34.0						X	
PT-RIDB12-68.6-69.0		1632	68.6-69.0						X	
PT-RIDB12-71.0-71.3		1641	71.0-71.3						X	
PT-RIDB12-74.5-75.0		1650	74.5-75.0						X	
PT-RIDB12-84.5-85.0	3/23/17	1656	84.5-85.0						X	
PT-RIDB28-16.2-16.5	3/27/17	1242	16.2-16.5	✓	✓	✓	✓	✓	X	
PT-RIDB28-37.2-37.5	3/27/17	1248	37.2-37.5						X	
PT-RIDB28-39.1-39.5	3/27/17	1255	39.1-39.5	✓	S	1	U	NO	X	
TOTAL						12				

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY <u>Amy M</u> (FedEx)	TIME/DATE 1400 / 3/29/17	RECEIVED BY COMPANY <u>Johanna App</u> PTS Labs, Inc	TIME/DATE 3/30/17 1100	TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
		SAMPLE INTEGRITY INTACT Y N TEMP. _____	SAMPLE INTEGRITY INTACT Y N	

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 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No 13116

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Marion
 PROJECT LOCATION Henderson, NV DATE 3/29/17 PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400C, M03B LABORATORY PTS
 SAMPLER Amy Marion/Alex Marr YEAR 2017 SIGNATURE Amy M

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	HOLD*	COMMENTS
PT-RIDB22-68.5-69.0	3/27/17	1304	68.5-69.0	✓	S	1	U	NO		XXX	
PT-RIDB22-85.5-85.8	3/27/17	1311	85.5-85.8							XXX	*Hold samples pending further instruction from J. Donovan/Ramboll Environ
PT-RIDB22-88.7-89.0	3/27/17	1316	88.7-89.0							XXX	
PT-M220-62.0-62.4	3/28/17	1553	62.0-62.4							XXX	
PT-RIDB22-14.0-14.3	↓	1600	14.0-14.3							XXX	
PT-RIDB22-18.2-18.5	↓	1605	18.2-18.5							XXX	
PT-RIDB22-42.9-43.3	↓	1611	42.9-43.3							XXX	
PT-RIDB22-71.6-72.0	3/28/17	1618	71.6-72.0	✓	↓	↓	↓	↓		XXX	
PT-RIDB22-87.7-88.0	3/29/17	1140	87.7-88.0	✓	S	1	U	NO		XXX	
TOTAL						9					

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY <u>Amy M</u> (FedEx)	TIME/DATE 1400 / 3/29/17	RECEIVED BY COMPANY <u>Jedrian</u> PTS Labs Inc	TIME/DATE 3/30/17 1100	TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____
				SAMPLE INTEGRITY INTACT Y N

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
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8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

September 3, 2017

Ross Russell, PG
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 47229
Physical Properties Data
NERT; 2141400C, MO3D

Dear Mr. Russell:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your NERT; 2141400C, MO3B project. This data set consists of the effective porosity, dry bulk density, moisture content, and TOC/foc by Walkley-Black method data. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,
PTS Laboratories, Inc.

Michael Mark Brady, P.G.
Laboratory Director

Encl.

Project Name: NERT
 Project Number: 2141400C, MO3D

PTS File No: 47229
 Client: Ramboll Environ

TEST PROGRAM - 20170524

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
Date Received: 20170427										
PT-RI7-74.0-74.5	74.0-74.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-83.4-83.9	83.4-83.9	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-92.5-93.0	92.5-93.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-103.0-103.5	103.0-103.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-124.0-124.5	124.0-124.5	N/A	X	X(1)					X	16 oz jar
PT-RI7-128.0-128.5	128.0-128.5	N/A	X	X(1)					X	16 oz jar
PT-RI9-16.0-16.5	16.0-16.5	N/A	X	X(1)						16 oz jar
PT-RI9-31.5-32.0	31.5-32.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-48.0-48.5	48.0-48.5	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-72.5-73.0	72.5-73.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-100.7-101.2	100.7-101.2	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-103.8-104.3	103.8-104.3	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-108.5-109.0	108.5-109.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-122.5-123.0	122.5-123.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-128.0-128.5	128.0-128.5	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI10-102.5-103.0	102.5-103.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI10-112.3-112.6	112.3-112.6	N/A	X	X(1)					X	16 oz jar
PT-RI10-118.4-118.8	118.4-118.8	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-41.0-41.5	41.0-41.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-48.5-49.0	48.5-49.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-55.5-55.8	55.5-55.8	N/A	X	X(1)					X	16 oz jar
PT-RI20-63.0-63.5	63.0-63.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-73.0-73.3	73.0-73.3	N/A	X	X(1)					X	16 oz jar
PT-RI20-81.5-82.0	81.5-82.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-108.5-109.0	108.5-109.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-112.5-113.0	112.5-113.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-117.5-118.0	117.5-118.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-123.5-124.0	123.5-124.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-128.0-128.5	128.0-128.5	N/A	X	X(1)					X	16 oz jar
PT-RI24-22.0-22.3	22.0-22.3	N/A	X	X(1)						16 oz jar
PT-RI24-27.0-27.3	27.0-27.3	N/A	X	X(1)						16 oz jar
PT-RI24-32.0-32.3	32.0-32.3	N/A	X	X(1)						16 oz jar
PT-RI24-36.2-36.5	36.2-36.5	N/A	X	X(1)						16 oz jar
PT-RI24-42.0-42.5	42.0-42.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-48.0-48.3	48.0-48.3	N/A	X	X(1)						16 oz jar
PT-RI24-66.5-67.0	66.5-67.0	N/A	X	X(1)						16 oz jar

Project Name: NERT
 Project Number: 2141400C, MO3D

PTS File No: 47229
 Client: Ramboll Environ

TEST PROGRAM - 20170524

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-RI24-68.7-69.0	68.7-69.0	N/A	X	X(1)						16 oz jar
PT-RI24-78.5-78.8	78.5-78.8	N/A	X	X(1)						16 oz jar
PT-RI24-83.7-84.0	83.7-84.0	N/A	X	X(1)						16 oz jar
PT-RI24-93.5-94.0	93.5-94.0	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-107.0-107.5	107.0-107.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-113.0-113.5	113.0-113.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-122.0-122.5	122.0-122.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-142.0-142.5	142.0-142.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-147.7-148.0	147.7-148.0	N/A	X	X(1)						16 oz jar
PT-RI21-76.0-76.3	76.0-76.3	N/A	X	X(1)						16 oz jar
PT-RI25-22.5-22.8	22.5-22.8	N/A	X	X(1)						16 oz jar
PT-RI25-28.0-28.3	28.0-28.3	N/A	X	X(1)						16 oz jar
PT-RI25-31.7-32.0	31.7-32.0	N/A	X	X(1)						16 oz jar
PT-RI25-36.2-36.5	36.2-36.5	N/A	X	X(1)						16 oz jar
PT-RI25-42.3-42.8	42.3-42.8	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-48.5-48.8	48.5-48.8	N/A	X	X(1)						16 oz jar
PT-RI25-65.5-65.8	65.5-65.8	N/A	X	X(1)						16 oz jar
PT-RI25-68.0-68.3	68.0-68.3	N/A	X	X(1)						16 oz jar
PT-RI25-78.2-78.5	78.2-78.5	N/A	X	X(1)						16 oz jar
PT-RI25-83.5-84.0	83.5-84.0	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-93.1-93.6	93.1-93.6	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-106.0-106.3	106.0-106.3	N/A	X	X(1)						16 oz jar
PT-RI25-113.5-114.0	113.5-114.0	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-122.0-122.4	122.0-122.4	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-142.3-142.8	142.3-142.8	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-147.5-147.8	147.5-147.8	N/A	X	X(1)						16 oz jar
PT-RI1-33.0-33.3	33.0-33.3	N/A	X	X(1)					X	16 oz jar
PT-RI5-75.0-75.5	75.0-75.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI5-82.3-82.8	82.3-82.8	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI5-87.2-87.7	87.2-87.7	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI7-109.0-109.5	109.0-109.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-122.5-123.0	122.5-123.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI18-21.0-21.3	21.0-21.3	N/A	X	X(1)						16 oz jar
PT-RI18-24.7-25.0	24.7-25.0	N/A	X	X(1)						16 oz jar
PT-RI18-26.5-26.8	26.5-26.8	N/A	X	X(1)						16 oz jar
PT-RI18-28.5-28.8	28.5-28.8	N/A	X	X(1)						16 oz jar

Project Name: NERT
 Project Number: 2141400C, MO3D

PTS File No: 47229
 Client: Ramboll Environ

TEST PROGRAM - 20170524

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-RI18-33.0-33.3	33.0-33.3	N/A	X	X(1)						16 oz jar
PT-RI18-40.5-41.0	40.5-41.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI18-44.0-44.3	44.0-44.3	N/A	X	X(1)						16 oz jar
PT-RI18-53.5-54.0	53.5-54.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI18-67.5-67.8	67.5-67.8	N/A	X	X(1)						16 oz jar
PT-RI18-93.5-94.0	93.5-94.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI18-104.0-104.5	104.0-104.5	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
TOTALS:		0.00	79	79	28	28	28	0	23	79

Laboratory Test Program Notes

Contaminant identification: perchlorate, metals, VOCs

Standard TAT for basic analysis is 10-15 business days.

Grain Size Analysis: Combined laser/sieve method; includes tabular data, graphics and statistical sorting in Excel format.

Effective Porosity: Includes Total Porosity.

USCS Soil Classification by ASTM D2487 requires Atterberg Limits and Grain Size Analysis (included as part of Test Program).

Note (1): Laboratory to verify Atterberg Limits are required to classify fine fraction per Ramboll Environ Physical Testing Requests.

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

**PHYSICAL TESTING REQUEST - Borings RI-1, RI-9,
 RI-21**

Date: May 24, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RI-1 (*)	33.0 - 33.3	PT-RI1-33.0-33.3	Glass jar	X	X (1)							X
RI-9	16.0 - 16.5	PT-RI9-16.0-16.5	Glass jar	X	X (1)							
RI-9	31.5 - 32.0	PT-RI9-31.5-32.0	wrapped core	X	X	X	X	X				
RI-9	48.0 - 48.5	PT-RI9-48.0-48.5	wrapped core	X	X	X	X	X				
RI-9	72.5 - 73.0	PT-RI9-72.5-73.0	wrapped core	X	X	X	X	X				
RI-9	100.7 - 101.2	PT-RI9-100.7-101.2	wrapped core	X	X	X	X	X				
RI-9	103.8 - 104.3	PT-RI9-103.8-104.3	wrapped core	X	X	X	X	X				
RI-9	108.5 - 109.0	PT-RI9-108.5-109.0	wrapped core	X	X	X	X	X				
RI-9	122.5 - 123.0	PT-RI9-122.5-123.0	wrapped core	X	X	X	X	X				
RI-9	128.0 - 128.5	PT-RI9-128.0-128.5	wrapped core	X	X	X	X	X				
RI-21	76.0 - 76.3	PT-RI21-76.0-76.3	Glass jar	X	X (1)							

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).
- (*) Positive field PID readings were observed in the soil core sample from boring RI-1 (PT-RI1-33.0-33.3).

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST - Borings RI-5, RI-7, RI-10

Date: May 24, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RI-5	75.0 - 75.5	PT-RI5-75.0-75.5	wrapped core	X	X							
RI-5	82.3 - 82.8	PT-RI5-82.3-82.8	wrapped core	X	X							
RI-5	87.2 - 87.7	PT-RI5-87.2-87.7	wrapped core	X	X							
RI-7 (*)	74.0 - 74.5	PT-RI7-74.0-74.5	wrapped core	X	X	X	X	X				X
RI-7	83.4 - 83.9	PT-RI7-83.4-83.9	wrapped core	X	X	X	X	X				X
RI-7 (*)	92.5 - 93.0	PT-RI7-92.5-93.0	wrapped core	X	X	X	X	X				X
RI-7	103.0 - 103.5	PT-RI7-103.0-103.5	wrapped core	X	X	X	X	X				X
RI-7	109.0 - 109.5	PT-RI7-109.0-109.5	wrapped core	X	X	X	X	X				X
RI-7	122.5 - 123.0	PT-RI7-122.5-123.0	wrapped core	X	X	X	X	X				X
RI-7	124.0 - 124.5	PT-RI7-124.0-124.5	Glass jar	X	X (1)							X
RI-7 (*)	128.0 - 128.5	PT-RI7-128.0-128.5	Glass jar	X	X (1)							X
RI-10	102.5 - 103.0	PT-RI10-102.5-103.0	wrapped core	X	X	X	X	X				X
RI-10	112.3 - 112.6	PT-RI10-112.3-112.6	Glass jar	X	X (1)							X
RI-10	118.4 - 118.8	PT-RI10-118.4-118.8	wrapped core	X	X	X	X	X				X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).
- (*) Positive field PID readings were observed in three soil core samples from boring RI-7 (PT-RI-7-74.0-74.5; PT-RI-7-92.5-93.0; PT-RI-7-128.0-128.5).

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST - Boring RI-18

Date: May 24, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RI-18	21.0 - 21.3	PT-RI18-21.0-21.3	Glass jar	X	X (1)							
RI-18	24.7 - 25.0	PT-RI18-24.7-25.0	Glass jar	X	X (1)							
RI-18	26.5 - 26.8	PT-RI18-26.5-26.8	Glass jar	X	X (1)							
RI-18	28.5 - 28.8	PT-RI18-28.5-28.8	Glass jar	X	X (1)							
RI-18	33.0 - 33.3	PT-RI18-33.0-33.3	Glass jar	X	X (1)							
RI-18	40.5 - 41.0	PT-RI18-40.5-41.0	wrapped core	X	X	X	X	X				
RI-18	44.0 - 44.3	PT-RI18-44.0-44.3	Glass jar	X	X (1)							
RI-18	53.5 - 54.0	PT-RI18-53.5-54.0	wrapped core	X	X	X	X	X				
RI-18	67.5 - 67.8	PT-RI18-67.5-67.8	Glass jar	X	X (1)							
RI-18	93.5 - 94.0	PT-RI18-93.5-94.0	wrapped core	X	X	X	X	X				
RI-18	104.0 - 104.5	PT-RI18-104.0-104.5	wrapped core	X	X	X	X	X				

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).
- (3) Positive field PID readings were observed in the soil core samples from boring RI-18.

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST - Boring RI-20

Date: May 24, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RI-20	41.0 - 41.5	PT-RI20-41.0-41.5	wrapped core	X	X	X	X	X				X
RI-20	48.5 - 49.0	PT-RI20-48.5-49.0	wrapped core	X	X	X	X	X				X
RI-20	55.5 - 55.8	PT-RI20-55.5-55.8	Glass jar	X	X (1)							X
RI-20	63.0 - 63.5	PT-RI20-63.0-63.5	wrapped core	X	X	X	X	X				X
RI-20	73.0 - 73.3	PT-RI20-73.0-73.3	Glass jar	X	X (1)							X
RI-20	81.5 - 82.0	PT-RI20-81.5-82.0	wrapped core	X	X	X	X	X				X
RI-20	108.5 - 109.0	PT-RI20-108.5-109.0	wrapped core	X	X	X	X	X				X
RI-20	112.5 - 113.0	PT-RI20-112.5-113.0	wrapped core	X	X	X	X	X				X
RI-20	117.5 - 118.0	PT-RI20-117.5-118.0	wrapped core	X	X	X	X	X				X
RI-20	123.5 - 124.0	PT-RI20-123.5-124.0	wrapped core	X	X	X	X	X				X
RI-20	128.0 - 128.5	PT-RI20-128.0-128.5	Glass jar	X	X (1)							X

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).
- (3) Positive field PID readings were observed in the soil core samples from boring RI-20.

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST - Boring RI-24

Date: May 24, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RI-24	22.0 - 22.3	PT-RI24-22.0-22.3	Glass jar	X	X (1)							
RI-24	27.0 - 27.3	PT-RI24-27.0-27.3	Glass jar	X	X (1)							
RI-24	32.0 - 32.3	PT-RI24-32.0-32.3	Glass jar	X	X (1)							
RI-24	36.2 - 36.5	PT-RI24-36.2-36.5	Glass jar	X	X (1)							
RI-24	42.0 - 42.5	PT-RI24-42.0-42.5	wrapped core	X	X							
RI-24	48.0 - 48.3	PT-RI24-48.0-48.3	Glass jar	X	X (1)							
RI-24	66.5 - 67.0	PT-RI24-66.5-67.0	Glass jar	X	X (1)							
RI-24	68.7 - 69.0	PT-RI24-68.7-69.0	Glass jar	X	X (1)							
RI-24	78.5 - 78.8	PT-RI24-78.5-78.8	Glass jar	X	X (1)							
RI-24	83.7 - 84.0	PT-RI24-83.7-84.0	Glass jar	X	X (1)							
RI-24	93.5 - 94.0	PT-RI24-93.5-94.0	wrapped core	X	X							
RI-24	107.0 - 107.5	PT-RI24-107.0-107.5	wrapped core	X	X							
RI-24	113.0 - 113.5	PT-RI24-113.0-113.5	wrapped core	X	X							
RI-24	122.0 - 122.5	PT-RI24-122.0-122.5	wrapped core	X	X							
RI-24	142.0 - 142.5	PT-RI24-142.0-142.5	wrapped core	X	X							
RI-24	147.7 - 148.0	PT-RI24-147.7-148.0	Glass jar	X	X (1)							

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).
- (3) Positive field PID readings were observed in the soil core samples from boring RI-24.

To: PTS Laboratories, Inc.
 8100 Secura Way, Santa Fe Springs, CA 90670

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST - Boring RI-25

Date: May 24, 2017
 Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RI-25	22.5 - 22.8	PT-RI25-22.5-22.8	Glass jar	X	X (1)							
RI-25	28.0 - 28.3	PT-RI25-28.0-28.3	Glass jar	X	X (1)							
RI-25	31.7 - 32.0	PT-RI25-31.7-32.0	Glass jar	X	X (1)							
RI-25	36.2 - 36.5	PT-RI25-36.2-36.5	Glass jar	X	X (1)							
RI-25	42.3 - 42.8	PT-RI24-42.3-42.8	wrapped core	X	X							
RI-25	48.5 - 48.8	PT-RI25-48.5-48.8	Glass jar	X	X (1)							
RI-25	65.5 - 65.8	PT-RI25-65.5-65.8	Glass jar	X	X (1)							
RI-25	68.0 - 68.3	PT-RI25-68.0-68.3	Glass jar	X	X (1)							
RI-25	78.2 - 78.5	PT-RI25-78.2-78.5	Glass jar	X	X (1)							
RI-25	83.5 - 84.0	PT-RI25-83.5-84.0	wrapped core	X	X							
RI-25	93.1 - 93.6	PT-RI25-93.1-93.6	wrapped core	X	X							
RI-25	106.0 - 106.3	PT-RI25-106.0-106.3	Glass jar	X	X (1)							
RI-25	113.5 - 114.0	PT-RI25-113.5-114.0	wrapped core	X	X							
RI-25	122.0 - 122.4	PT-RI25-122.0-122.4	wrapped core	X	X							
RI-25	142.3 - 142.8	PT-RI25-142.3-142.8	wrapped core	X	X							
RI-25	147.5 - 147.8	PT-RI25-147.5-147.8	Glass jar	X	X (1)							

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).
- (3) Positive field PID readings were observed in the soil core samples from boring RI-25.

PTS File No: 47229
 Client: Ramboll Environ
 Report Date: 09/03/17

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 2141400C, MO3B

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS: ANALYSIS DATE	API RP 40 /	API RP40	Mod. ASTM D425	Mod. ASTM D425
				ASTM D2216	DENSITY BULK, g/cc	TOTAL POROSITY (2), %Vb	EFFECTIVE POROSITY, %Vb
PT-RI7-74.0-74.5	74.1	V	20170607	72.3	0.80	69.9	19.5
PT-RI7-83.4-83.9	83.5	V	20170607	84.0	0.69	77.6	14.7
PT-RI7-92.5-93.0	92.6	V	20170607	22.8	1.26	49.8	18.1
PT-RI7-103.0-103.5	103.1	V	20170607	31.9	1.17	58.5	13.5
PT-RI9-31.5-32.0	31.6	V	20170607	25.6	1.10	58.5	23.0
PT-RI9-48.0-48.5	48.1	V	20170607	30.2	1.08	59.3	21.7
PT-RI9-72.5-73.0	72.9	V	20170607	15.3	1.20	62.4	12.5
PT-RI9-100.7-101.2	100.8	V	20170607	45.8	1.07	58.8	11.2
PT-RI9-103.8-104.3	103.9	V	20170613	74.6	0.68	76.8	23.8
PT-RI9-108.5-109.0	108.6	V	20170613	72.0	0.76	69.7	20.2
PT-RI9-122.5-123.0	122.6	V	20170613	47.1	1.04	63.5	10.4
PT-RI9-128.0-128.5	128.1	V	20170613	38.6	1.06	66.0	19.2
PT-RI10-102.5-103.0	102.9	V	20170613	30.1	1.01	69.7	21.8
PT-RI10-118.4-118.8	118.5	V	20170613	74.6	0.70	76.5	22.1
PT-RI20-41.0-41.5	41.1	V	20170613	36.3	1.05	65.3	17.7
PT-RI20-48.5-49.0	48.6	V	20170613	33.1	0.96	63.9	23.8
PT-RI20-63.0-63.5	63.1	V	20170613	22.3	1.13	64.2	16.1
PT-RI20-81.5-82.0	81.6	V	20170613	49.6	0.72	70.8	24.3
PT-RI20-108.5-109.0	108.6	V	20170613	22.6	1.15	62.7	16.9
PT-RI20-112.5-113.0	112.6	V	20170613	20.9	1.05	63.7	19.5
PT-RI20-117.5-118.0	117.6	V	20170613	34.1	0.97	64.4	23.1
PT-RI20-123.5-124.0	123.9	V	20170613	9.3	1.31	55.3	15.3
PT-RI7-109.0-109.5	109.1	V	20170613	41.5	1.18	56.7	10.9
PT-RI7-122.5-123.0	122.6	V	20170613	40.0	1.08	69.4	12.6
PT-RI18-40.5-41.0	40.6	V	20170613	38.7	1.19	60.2	15.0
PT-RI18-53.5-54.0	53.6	V	20170613	52.6	1.01	62.1	13.5
PT-RI18-93.5-94.0	93.6	V	20170613	51.1	1.00	69.4	11.6
PT-RI18-104.0-104.5	104.1	V	20170613	46.5	1.06	61.3	11.0

(1) Sample Orientation: H = horizontal; V = vertical; R = remold

(2) Total Porosity = all interconnected pore channels.

Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 47229
 Client: Ramboll Environ
 Report Date: 09/03/17

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3B

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RI7-74.0-74.5	74.0	20170627	1510	SOIL	1000	1.00E-03
PT-RI7-83.4-83.9	83.4	20170627	1510	SOIL	980	9.80E-04
PT-RI7-92.5-93.0	92.5	20170627	1510	SOIL	1100	1.10E-03
PT-RI7-103.0-103.5	103.0	20170627	1510	SOIL	1150	1.15E-03
PT-RI7-124.0-124.5	124.0	20170627	1510	SOIL	780	7.80E-04
PT-RI7-128.0-128.5	128.0	20170627	1510	SOIL	1100	1.10E-03
PT-RI10-102.5-103.0	102.5	20170627	1510	SOIL	920	9.20E-04
PT-RI10-112.3-112.6	112.3-112.6	20170627	1510	SOIL	860	8.60E-04
PT-RI10-118.4-118.8	118.4	20170627	1510	SOIL	1050	1.05E-03
PT-RI20-41.0-41.5	41.0	20170627	1510	SOIL	<100	<1.00E-04
PT-RI20-48.5-49.0	48.5	20170627	1510	SOIL	200	2.00E-04
PT-RI20-55.5-55.8	55.5-55.8	20170627	1510	SOIL	790	7.90E-04
PT-RI20-63.0-63.5	63.0	20170627	1510	SOIL	790	7.90E-04
PT-RI20-73.0-73.3	73.0-73.3	20170627	1510	SOIL	690	6.90E-04
PT-RI20-81.5-82.0	81.5	20170627	1510	SOIL	1050	1.05E-03
PT-RI20-108.5-109.0	108.5	20170627	1510	SOIL	<100	<1.00E-04
PT-RI20-112.5-113.0	112.5	20170627	1510	SOIL	2000	2.00E-03
PT-RI20-117.5-118.0	117.5	20170627	1510	SOIL	870	8.70E-04
PT-RI20-123.5-124.0	124.0	20170627	1510	SOIL	1150	1.15E-03
PT-RI20-128.0-128.5	128.0	20170627	1510	SOIL	1300	1.30E-03
Blank	N/A	20170627	1510	BLANK	ND	ND
SRM D093-542	N/A	20170627	1510	SRM	6710	6.71E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	120	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47229
 Client: Ramboll Environ
 Report Date: 09/03/17

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C, MO3B

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RI1-33.0-33.3	33.0-33.3	20170629	1303	SOIL	680	6.80E-04
PT-RI7-109.0-109.5	109.0	20170629	1303	SOIL	<100	<1.00E-04
PT-RI7-122.5-123.0	122.5	20170629	1303	SOIL	220	2.20E-04

Blank	N/A	20170629	1303	BLANK	ND	ND
SRM D093-542	N/A	20170629	1303	SRM	6250	6.25E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	112	75-125	5590	4193	6988

ND = Not Detected

CHAIN-OF-CUSTODY FORM

No 12960

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT MSA #
 PROJECT LOCATION Henderson, NV FIELD PERSON# Amy Manion
 PROJECT NUMBER 21414006, M03B PROJECT MANAGER Ross Russell
 SAMPLER Amy Manion LABORATORY PTS SIGNATURE

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI7-74.0-74.5	4/12/17	0920	74.0-74.5	✓	S	1	U	NO	✓	
PT-RI7-83.4-83.9		0845	83.4-83.9	✓					✗	* Hold samples pending further instruction from J. Donovan/Ramboll Environ
PT-RI7-92.5-93.0		0830	92.5-93.0	✓					✗	
PT-RI7-103.0-103.5		0820	103.0-103.5	✓					✗	
PT-RI7-124.0-124.5		0806	124.0-124.5	✓					✗	
PT-RI7-128.0-128.5		0715	128.0-128.5	✓					✗	
PT-RI9-16.0-16.5		0950	16.0-16.5	✓					✗	
PT-RI9-31.5-32.0		0940	31.5-32.0	✓					✗	
PT-RI9-48.0-48.5		0930	48.0-48.5	✓					✗	
PT-RI9-72.5-73.0		1000	72.5-73.0	✓					✗	
PT-RI9-100.7-101.2		1120	100.7-101.2	✓					✗	
PT-RI9-103.8-104.3	4/12/17	1130	103.8-104.3	✓	S	1	U	NO	✓	
TOTAL						12				

RELINQUISHED BY <i>Amy Manion</i>	TIME/DATE 4/26/17 1400	RECEIVED BY COMPANY <i>PTS</i> LABS	TIME/DATE 4/27/17 1250	SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT <input checked="" type="radio"/> N TEMP 73.3 °F

CHAIN-OF-CUSTODY FORM

No 12961

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #

PROJECT NAME/FACILITY ID: NERT FIELD PERSON# Amy Manion
 PROJECT LOCATION: Henderson, NV PROJECT MANAGER: Ross Russell
 PROJECT NUMBER: 21414006, MO3B LABORATORY: PTS
 SAMPLER: Amy Manion YEAR: 2017 SIGNATURE: _____

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI9-108.5-109.0	4/22/17	1135	108.5-109.0	✓	S	1	U	NO		
PT-RI9-122.5-123.0	4/22/17	1145	122.5-123.0	✓	S	1	U	NO		
PT-RI9-128.0-128.5	4/22/17	1155	128.0-128.5	✓	S	1	U	NO		
PT-RI10-102.5-103.0	4/20/17	1355	102.5-103.0	✓	S	1	U	NO		
PT-RI10-112.3-112.6	4/20/17	1355	112.3-112.6	✓	S	1	U	NO		
PT-RI10-118.4-118.8	4/20/17	1400	118.4-118.8	✓	S	1	U	NO		
PT-RI20-41.0-41.5	4/22/17	1507	41.0-41.5	✓	S	1	U	NO		
PT-RI20-48.5-49.0	4/22/17	1514	48.5-49.0	✓	S	1	U	NO		
PT-RI20-55.5-55.8	4/22/17	1523	55.5-55.8	✓	S	1	U	NO		
PT-RI20-63.0-63.5	4/22/17	1532	63.0-63.5	✓	S	1	U	NO		
PT-RI20-73.0-73.3	4/22/17	1540	73.0-73.3	✓	S	1	U	NO		
PT-RI20-81.5-82.0	4/22/17	1555	81.5-82.0	✓	S	1	U	NO		
TOTAL						12				

* Hold samples pending further instruction from J. Donovan/Ramboll Environ

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	TURNAROUND TIME (CIRCLE ONE)	SAMPLE DAY	72 HOURS	24 HOURS	48 HOURS	SAMPLE INTEGRITY
<u>Amy Manion (FedEx)</u>	1400 4/26/17	<u>PTS CABS</u>	4/27/17 12:50	(CIRCLE ONE)				NORMAL	INTACT Y N
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	TURNAROUND TIME (CIRCLE ONE)					INTACT Y N
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	TURNAROUND TIME (CIRCLE ONE)					INTACT Y N

CHAIN-OF-CUSTODY FORM

No 13118

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #
 PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 21414006, M03B LABORATORY PTS
 SAMPLER Amy Manion/Grey Kimsall YEAR 2017 SIGNATURE

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI20-108.5-109.0	4/23/17	1032	108.5-109.0	✓	S 1 U NO	1	U	NO	X	
PT-RI20-112.5-113.0		1042	112.5-113.0	✓					X	* Hold samples pending further instruction from J. Donovan/Ramboll Environ
PT-RI20-117.5-118.0		1047	117.5-118.0	✓					X	
PT-RI20-123.5-124.0		1107	123.5-124.0	✓					X	
PT-RI20-128.0-128.5		1120	128.0-128.5	✓					X	
PT-RI24-22.0-22.3		1309	22.0-22.3	✓					X	
PT-RI24-27.0-27.3		1316	27.0-27.3	✓					X	
PT-RI24-32.0-32.3		1322	32.0-32.3	✓					X	
PT-RI24-36.2-36.5		1328	36.2-36.5	✓					X	
PT-RI24-42.0-42.5		1343	42.0-42.5	✓					X	
PT-RI24-48.0-48.3		1356	48.0-48.3	✓					X	
PT-RI24-66.5-67.0	✓	1402	66.5-67.0	✓	S 1 U NO	1	U	NO	X	
TOTAL						12				

RELINQUISHED BY <i>Amy Manion</i> (FedEx)	TIME/DATE 1400 4/26/17	RECEIVED BY COMPANY <i>[Signature]</i> PTS LABS	TIME/DATE 4/27/17 1250	SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS (NORMAL)
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP 73.3 F

SWPU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400C M03B LABORATORY PTS
 SAMPLER Amy Manion/Greg Kinsall YEAR 2017 SIGNATURE

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI24-68.7-69.0	4/23/17	1412	68.7-69.0	/	S	1	U NO		X	* Hold samples pending further instruction from J. Donovan / Ramboll Environ
PT-RI24-78.5-78.8		1419	78.5-78.8	/					X	
PT-RI24-83.7-84.0		1429	83.7-84.0	/					X	
PT-RI24-93.5-94.0		1439	93.5-94.0	/					X	
PT-RI24-107.0-107.5		1449	107.0-107.5	/					X	
PT-RI24-113.0-113.5		1459	113.0-113.5	/					X	
PT-RI24-122.0-122.5		1511	122.0-122.5	/					X	
PT-RI24-142.0-142.5		1522	142.0-142.5	/					X	
PT-RI24-147.7-148.0	4/23/17	1533	147.7-148.0	/					X	
PT-RI21-76.0-76.3	4/24/17	1333	76.0-76.3	/					X	
PT-RI25-22.5-22.8	4/24/17	1346	22.5-22.8	/					X	
PT-RI25-28.0-28.3	4/24/17	1352	28.0-28.3	/	S	1	U NO		X	
TOTAL						12				

RELINQUISHED BY <u>Amy Manion (FedEx)</u>	TIME/DATE 1400 / 4/26/17	RECEIVED BY COMPANY <u>PTS LABS</u>	TIME/DATE 4/27/17 1250	SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS <u>NORMAL</u>
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N
				73.3 F

CHAIN-OF-CUSTODY FORM

No 13120

JUST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT
 PROJECT LOCATION Henderson, NV DATE 4/26/17
 PROJECT NUMBER 2141400, M03B
 SAMPLER Amy Manion YEAR 2017
 FIELD PERSON# Amy Manion
 PROJECT MANAGER Rose Russell
 LABORATORY PTS
 SIGNATURE _____

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI25-31.7-32.0	4/24/17	1358	31.7-32.0	/	S	1	U	NO	X	* Hold samples
PT-RI25-36.2-36.5		1404	36.2-36.5	/					X	pending further instruction from J. Donovan/Ramboll Environ
PT-RI25-42.3-42.8		1410	42.3-42.8	/					X	
PT-RI25-48.5-48.8		1455	48.5-48.8	/					X	
PT-RI25-65.5-65.8		1502	65.5-65.8	/					X	
PT-RI25-68.0-68.3		1510	68.0-68.3	/					X	
PT-RI25-78.2-78.5		1517	78.2-78.5	/					X	
PT-RI25-83.5-84.0		1525	83.5-84.0	/					X	
PT-RI25-93.1-93.6		1534	93.1-93.6	/					X	
PT-RI25-106.0-106.3		1543	106.0-106.3	/					X	
PT-RI25-113.5-114.0		1552	113.5-114.0	/					X	
PT-RI25-122.0-122.4		1600	122.0-122.4	/	S	1	U	NO	X	
TOTAL						12				

RELINQUISHED BY Amy Manion (FedEx) TIME/DATE 1400 / 4/26/17 RECEIVED BY COMPANY PTS LABS TIME/DATE 4/27/17 1250 SAME DAY 72 HOURS
 RELINQUISHED BY _____ TIME/DATE _____ RECEIVED BY COMPANY _____ TIME/DATE _____ 24 HOURS 5 DAYS
 RELINQUISHED BY _____ TIME/DATE _____ RECEIVED BY COMPANY _____ TIME/DATE _____ 48 HOURS 48 HOURS (NORMAL)
 SAMPLE INTEGRITY INTACT (Y) N (N) TEMP 73.3 F

CHAIN-OF-CUSTODY FORM

No 13121

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID VERT FIELD PERSON # Amy Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400, M03B LABORATORY PTS
 SAMPLER Amy Manion YEAR 2017 SIGNATURE

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI25-142.3-142.8	4/24/17	1607	142.3-142.8	1	S	1	U	NO	X	* Hold samples pending further instruction from J. Donovan / Ramboll Environ
PT-RI25-147.5-147.8	4/24/17	1615	147.5-147.8	1	S	1	U	NO	X	
PT-RI1-33.0-33.3	4/25/17	1032	33.0-33.3	1	S	1	U	NO	X	
PT-RIS-75.0-75.5	4/8/17	0820	75.0-75.5	1	S	1	U	NO	X	
PT-RIS-82.3-82.8	4/8/17	0840	82.3-82.8	1	S	1	U	NO	X	
PT-RIS-87.2-87.7	4/8/17	0850	87.2-87.7	1	S	1	U	NO	X	
PT-RI7-109.0-109.5	4/12/17	0740	109.0-109.5	1	S	1	U	NO	X	
PT-RI7-122.5-123.0	4/12/17	0730	122.5-123.0	1	S	1	U	NO	X	
PT-RI18-21.0-21.3	4/26/17	1045	21.0-21.3	1	S	1	U	NO	X	
PT-RI18-24.7-25.0	4/26/17	1052	24.7-25.0	1	S	1	U	NO	X	
PT-RI18-26.5-26.8	4/26/17	1100	26.5-26.8	1	S	1	U	NO	X	
PT-RI18-28.5-28.8	4/26/17	1108	28.5-28.8	1	S	1	U	NO	X	
TOTAL				12						

RELINQUISHED BY <i>Cory M</i>	TIME/DATE 1400 / 4/26/17	RECEIVED BY COMPANY <i>PTS LABS</i>	TIME/DATE 4/27/17 1250	SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N 73.3 F

47229

CHAIN-OF-CUSTODY

PROJECT NAME / FACILITY ID: VERT FIELD PERSON: Amy Navion
 PROJECT NUMBER: 214400C, M03B DATE: 4/26/17 PROJECT MANAGER: Ross Russell
 PROJECT LOCATION: Henderson, NV LABORATORY: PTS

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER:	SIGNATURE:	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI18-33.0-33.3	<i>Amy Navion</i>		4/26	113	33.0-33.3	S	1	U	No	X	* Hold samples
PT-RI18-40.5-41.0	<i>[Signature]</i>			1158	40.5-41.0					X	pending further instruction from
PT-RI18-44.0-44.3				1210	44.0-44.3					X	J. Donovan/Ramboll Environ
PT-RI18-53.5-54.0				1216	53.5-54.0					X	
PT-RI18-67.5-67.8				1223	67.5-67.8					X	
PT-RI18-93.5-94.0				1229	93.5-94.0					X	
PT-RI18-104.0-104.5				1237	104.0-104.5	S	1	U	NO	X	
TOTAL							7				

RELINQUISHED BY: Amy Navion (FedEx) TIME/DATE: 1400 / 4/26/17
 RECEIVED BY: [Signature] (PTS LABS) TIME/DATE: 4/27/17 12:50
 RELINQUISHED BY: _____ TIME/DATE: _____
 RECEIVED BY: _____ TIME/DATE: _____

TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS NORMAL

IF SEALED, SEAL INTEGRITY INTACT: Y N
 SAMPLE INTEGRITY INTACT: Y N Temp: 73.3 °F

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER



8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

September 20, 2017

Ross Russell, PG
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 47229
Physical Properties Data
NERT; 2141400C, MO3D

Dear Mr. Russell:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your NERT; 2141400C, MO3B project. This data set consists of the grain size analyses, Atterberg Limits, and USCS soil classification data. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,
PTS Laboratories, Inc.

Michael Mark Brady, P.G.
Laboratory Director

Encl.

Project Name: NERT
 Project Number: 2141400C, MO3D

PTS File No: 47229
 Client: Ramboll Environ

TEST PROGRAM - 20170524

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
Date Received: 20170427										
PT-RI7-74.0-74.5	74.0-74.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-83.4-83.9	83.4-83.9	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-92.5-93.0	92.5-93.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-103.0-103.5	103.0-103.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-124.0-124.5	124.0-124.5	N/A	X	X(1)					X	16 oz jar
PT-RI7-128.0-128.5	128.0-128.5	N/A	X	X(1)					X	16 oz jar
PT-RI9-16.0-16.5	16.0-16.5	N/A	X	X(1)						16 oz jar
PT-RI9-31.5-32.0	31.5-32.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-48.0-48.5	48.0-48.5	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-72.5-73.0	72.5-73.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-100.7-101.2	100.7-101.2	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-103.8-104.3	103.8-104.3	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-108.5-109.0	108.5-109.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-122.5-123.0	122.5-123.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI9-128.0-128.5	128.0-128.5	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI10-102.5-103.0	102.5-103.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI10-112.3-112.6	112.3-112.6	N/A	X	X(1)					X	16 oz jar
PT-RI10-118.4-118.8	118.4-118.8	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-41.0-41.5	41.0-41.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-48.5-49.0	48.5-49.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-55.5-55.8	55.5-55.8	N/A	X	X(1)					X	16 oz jar
PT-RI20-63.0-63.5	63.0-63.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-73.0-73.3	73.0-73.3	N/A	X	X(1)					X	16 oz jar
PT-RI20-81.5-82.0	81.5-82.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-108.5-109.0	108.5-109.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-112.5-113.0	112.5-113.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-117.5-118.0	117.5-118.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-123.5-124.0	123.5-124.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI20-128.0-128.5	128.0-128.5	N/A	X	X(1)					X	16 oz jar
PT-RI24-22.0-22.3	22.0-22.3	N/A	X	X(1)						16 oz jar
PT-RI24-27.0-27.3	27.0-27.3	N/A	X	X(1)						16 oz jar
PT-RI24-32.0-32.3	32.0-32.3	N/A	X	X(1)						16 oz jar
PT-RI24-36.2-36.5	36.2-36.5	N/A	X	X(1)						16 oz jar
PT-RI24-42.0-42.5	42.0-42.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-48.0-48.3	48.0-48.3	N/A	X	X(1)						16 oz jar
PT-RI24-66.5-67.0	66.5-67.0	N/A	X	X(1)						16 oz jar

Project Name: NERT
 Project Number: 2141400C, MO3D

PTS File No: 47229
 Client: Ramboll Environ

TEST PROGRAM - 20170524

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-RI24-68.7-69.0	68.7-69.0	N/A	X	X(1)						16 oz jar
PT-RI24-78.5-78.8	78.5-78.8	N/A	X	X(1)						16 oz jar
PT-RI24-83.7-84.0	83.7-84.0	N/A	X	X(1)						16 oz jar
PT-RI24-93.5-94.0	93.5-94.0	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-107.0-107.5	107.0-107.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-113.0-113.5	113.0-113.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-122.0-122.5	122.0-122.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-142.0-142.5	142.0-142.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI24-147.7-148.0	147.7-148.0	N/A	X	X(1)						16 oz jar
PT-RI21-76.0-76.3	76.0-76.3	N/A	X	X(1)						16 oz jar
PT-RI25-22.5-22.8	22.5-22.8	N/A	X	X(1)						16 oz jar
PT-RI25-28.0-28.3	28.0-28.3	N/A	X	X(1)						16 oz jar
PT-RI25-31.7-32.0	31.7-32.0	N/A	X	X(1)						16 oz jar
PT-RI25-36.2-36.5	36.2-36.5	N/A	X	X(1)						16 oz jar
PT-RI25-42.3-42.8	42.3-42.8	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-48.5-48.8	48.5-48.8	N/A	X	X(1)						16 oz jar
PT-RI25-65.5-65.8	65.5-65.8	N/A	X	X(1)						16 oz jar
PT-RI25-68.0-68.3	68.0-68.3	N/A	X	X(1)						16 oz jar
PT-RI25-78.2-78.5	78.2-78.5	N/A	X	X(1)						16 oz jar
PT-RI25-83.5-84.0	83.5-84.0	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-93.1-93.6	93.1-93.6	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-106.0-106.3	106.0-106.3	N/A	X	X(1)						16 oz jar
PT-RI25-113.5-114.0	113.5-114.0	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-122.0-122.4	122.0-122.4	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-142.3-142.8	142.3-142.8	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI25-147.5-147.8	147.5-147.8	N/A	X	X(1)						16 oz jar
PT-RI1-33.0-33.3	33.0-33.3	N/A	X	X(1)					X	16 oz jar
PT-RI5-75.0-75.5	75.0-75.5	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI5-82.3-82.8	82.3-82.8	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI5-87.2-87.7	87.2-87.7	N/A	X	X						Foil wrapped core in Ziploc bag
PT-RI7-109.0-109.5	109.0-109.5	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI7-122.5-123.0	122.5-123.0	N/A	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI18-21.0-21.3	21.0-21.3	N/A	X	X(1)						16 oz jar
PT-RI18-24.7-25.0	24.7-25.0	N/A	X	X(1)						16 oz jar
PT-RI18-26.5-26.8	26.5-26.8	N/A	X	X(1)						16 oz jar
PT-RI18-28.5-28.8	28.5-28.8	N/A	X	X(1)						16 oz jar

Project Name: NERT
 Project Number: 2141400C, MO3D

PTS File No: 47229
 Client: Ramboll Environ

TEST PROGRAM - 20170524

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-RI18-33.0-33.3	33.0-33.3	N/A	X	X(1)						16 oz jar
PT-RI18-40.5-41.0	40.5-41.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI18-44.0-44.3	44.0-44.3	N/A	X	X(1)						16 oz jar
PT-RI18-53.5-54.0	53.5-54.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI18-67.5-67.8	67.5-67.8	N/A	X	X(1)						16 oz jar
PT-RI18-93.5-94.0	93.5-94.0	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
PT-RI18-104.0-104.5	104.0-104.5	N/A	X	X	X	X	X			Foil wrapped core in Ziploc bag
TOTALS:		0.00	79	79	28	28	28	0	23	79

Laboratory Test Program Notes

Contaminant identification: perchlorate, metals, VOCs

Standard TAT for basic analysis is 10-15 business days.

Grain Size Analysis: Combined laser/sieve method; includes tabular data, graphics and statistical sorting in Excel format.

Effective Porosity: Includes Total Porosity.

USCS Soil Classification by ASTM D2487 requires Atterberg Limits and Grain Size Analysis (included as part of Test Program).

Note (1): Laboratory to verify Atterberg Limits are required to classify fine fraction per Ramboll Environ Physical Testing Requests.

PTS File No: 47229
 Client: Ramboll Environ
 Report Date: 09/20/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
PT-RI7-74.0-74.5	74.0-74.2	20170606	100.8	48.0	52.8	MH	MH: Elastic silt with sand
PT-RI7-83.4-83.9	83.4-83.6	20170606	205.7	77.0	128.7	MH	MH: Elastic silt
PT-RI7-92.5-93.0	92.5-92.7	20170606	55.4	22.5	32.9	CH	CH: Fat clay with sand
PT-RI7-103.0-103.5	103.0-103.2	20170606	98.9	26.4	72.5	CH	CH: Fat clay
PT-RI7-124.0-124.5	124.0-124.5	20170830	91.7	38.5	53.2	CH	CH: Fat clay with sand
PT-RI7-128.0-128.5	128.0-128.5	20170830	133.5	30.1	103.4	CH	CH: Fat clay
PT-RI9-16.0-16.5	16.0-16.5	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand
PT-RI9-31.5-32.0	31.5-31.7	20170607	58.5	39.8	18.7	MH	MH: Elastic silt with sand
PT-RI9-48.0-48.5	48.0-48.2	20170607	48.3	30.5	17.8	ML	ML: Silt with sand
PT-RI9-72.5-73.0	72.5-72.7	20170607	77.3	25.2	52.1	CH	CH: Fat clay with sand
PT-RI9-100.7-101.2	100.7-100.9	20170607	85.6	31.3	54.3	CH	CH: Fat clay with sand
PT-RI9-103.8-104.3	103.8-104.0	20170607	157.9	66.5	91.4	MH	MH: Elastic silt
PT-RI9-108.5-109.0	108.5-108.7	20170607	129.2	60.8	68.4	MH	MH: Elastic silt with sand
PT-RI9-122.5-123.0	122.5-122.7	20170607	93.5	35.9	57.6	CH	CH: Fat clay with sand
PT-RI9-128.0-128.5	128.0-128.5	20170608	92.4	39.4	53.0	CH	CH: Fat clay
PT-RI10-102.5-103.0	102.5-102.7	20170613	97.0	27.4	69.6	CH	CH: Sandy fat clay
PT-RI10-112.3-112.6	112.3-112.6	20170830	94.3	26.8	67.5	CH	CH: Fat clay with sand
PT-RI10-118.4-118.8	118.4-118.6	20170613	175.8	67.8	108.0	MH	MH: Elastic silt
PT-RI20-41.0-41.5	41.0-41.2	20170613	56.2	37.0	19.2	MH	MH: Sandy elastic silt
PT-RI20-48.5-49.0	48.5-48.7	20170613	59.1	35.0	24.1	MH	MH: Elastic silt with sand
PT-RI20-55.5-55.8	55.5-55.8	20170830	53.2	28.5	24.7	CH	CH: Fat clay with sand
PT-RI20-63.0-63.5	63.0-63.2	20170614	56.3	33.3	23.0	MH	MH: Elastic silt
PT-RI20-73.0-73.3	73.0-73.3	20170830	41.6	20.6	21.0	CL	CL: Lean clay with sand
PT-RI20-81.5-82.0	81.5-81.7	20170614	114.9	66.9	48.0	MH	MH: Elastic silt with sand
PT-RI20-108.5-109.0	108.5-108.7	20170615	104.0	29.2	74.8	CH	CH: Fat clay

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples and coarse grained samples where ABL was not requested.
 USCS: Unified Soil Classification System

PTS File No: 47229
 Client: Ramboll Environ
 Report Date: 09/20/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
PT-RI20-112.5-113.0	112.5-112.7	20170615	114.0	35.2	78.8	CH	CH: Fat clay
PT-RI20-117.5-118.0	117.5-117.7	20170615	91.5	40.9	50.6	MH	MH: Elastic silt with sand
PT-RI20-123.5-124.0	123.8-124.0	20170615	66.4	19.5	46.9	CH	CH: Sandy fat clay
PT-RI20-128.0-128.5	128.0-128.5	20170831	102.6	20.8	81.8	CH	CH: Fat clay with sand
PT-RI24-22.0-22.3	22.0-22.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel
PT-RI24-27.0-27.3	27.0-27.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel
PT-RI24-32.0-32.3	32.0-32.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel
PT-RI24-36.2-36.5	36.2-36.5	20170831	79.6	49.8	29.8	MH	MH: Sandy elastic silt
PT-RI24-42.0-42.5	42.0-42.5	20170615	55.5	39.4	16.1	MH	MH: Sandy elastic silt
PT-RI24-48.0-48.3	48.0-48.3	20170831	71.7	43.3	28.4	MH	MH: Sandy elastic silt
PT-RI24-66.5-67.0	66.5-67.0	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand
PT-RI24-68.7-69.0	68.7-69.0	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				GM: Silty gravel with sand
PT-RI24-78.5-78.8	78.5-78.8	20170901	80.8	23.8	57.0	CH	CH: Fat clay with sand
PT-RI24-83.7-84.0	83.7-84.0	20170901	35.0	21.0	14.0	CL	CL: Sandy lean clay
PT-RI24-93.5-94.0	93.5-94.0	20170621	153.2	44.1	109.1	CH	CH: Fat clay
PT-RI24-107.0-107.5	107.0-107.2	20170621	78.5	33.4	45.1	CH	CH: Fat clay with sand
PT-RI24-113.0-113.5	113.0-113.2	20170622	112.5	28.1	84.4	CH	CH: Fat clay
PT-RI24-122.0-122.5	122.0-122.3	20170622	84.9	29.9	55.0	CH	CH: Fat clay with sand
PT-RI24-142.0-142.5	142.0-142.2	20170623	91.9	29.6	62.3	CH	CH: Fat clay with sand
PT-RI24-147.7-148.0	147.7-148.0	20170901	82.1	28.1	54.0	CH	CH: Fat clay with sand
PT-RI21-76.0-76.3	76.0-76.3	20170902	51.2	26.6	24.6	CH	CH: Sandy fat clay
PT-RI25-22.5-22.8	22.5-22.8	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SW-SM: Well-graded sand with silt
PT-RI25-28.0-28.3	28.0-28.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel
PT-RI25-31.7-32.0	31.7-32.0	20170902	58.7	39.8	18.9	MH	MH: Sandy elastic silt
PT-RI25-36.2-36.5	36.2-36.5	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples and coarse grained samples where ABL was not requested.
 USCS: Unified Soil Classification System

PTS File No: 47229
 Client: Ramboll Environ
 Report Date: 09/20/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
PT-RI25-42.3-42.8	42.3-42.8	20170623	38.2	NON-PLASTIC		NP	ML: Sandy silt
PT-RI25-48.5-48.8	48.5-48.8	20170903	34.5	25.6	8.9	ML	ML: Sandy silt
PT-RI25-65.5-65.8	65.5-65.8	20170903	48.7	23.9	24.8	CL	CL: Lean clay with sand
PT-RI25-68.0-68.3	68.0-68.3	20170903	69.1	23.0	46.1	CH	CH: Fat clay
PT-RI25-78.2-78.5	78.2-78.5	20170903	45.7	30.6	15.1	ML	ML: Sandy silt
PT-RI25-83.5-84.0	83.5-83.7	20170623	51.6	33.0	18.6	MH	MH: Sandy elastic silt
PT-RI25-93.1-93.6	93.1-93.3	20170623	71.2	37.2	34.0	MH	MH: Elastic silt with sand
PT-RI25-106.0-106.3	106.0-106.3	20170904	114.2	45.0	69.2	CH	CH: Sandy fat clay
PT-RI25-113.5-114.0	113.5-113.7	20170623	206.7	30.3	176.4	CH	SC: Clayey sand
PT-RI25-122.0-122.4	122.0-122.2	20170627	234.4	22.9	211.5	CH	SC: Clayey sand
PT-RI25-142.3-142.8	142.3-142.5	20170627	114.7	55.9	58.8	MH	MH: Sandy elastic silt
PT-RI25-147.5-147.8	147.5-147.8	20170904	128.3	23.5	104.8	CH	CH: Fat clay
PT-RI1-33.0-33.3	33.0-33.3	20170905	51.6	25.0	26.6	CH	CH: Sandy fat clay
PT-RI5-75.0-75.5	75.0-75.2	20170628	92.5	28.0	64.5	CH	CH: Fat clay
PT-RI5-82.3-82.8	82.3-82.8	20170628	145.8	54.3	91.5	MH	MH: Elastic silt with sand
PT-RI5-87.2-87.7	87.2-87.4	20170628	181.9	37.0	144.9	CH	CH: Fat clay with sand
PT-RI7-109.0-109.5	109.0-109.2	20170628	87.1	34.8	52.3	CH	CH: Fat clay with sand
PT-RI7-122.5-123.0	122.5-122.7	20170629	125.8	25.7	100.1	CH	CH: Sandy fat clay
PT-RI18-21.0-21.3	21.0-21.3	20170905	69.0	34.1	34.9	MH	MH: Sandy elastic silt
PT-RI18-24.7-25.0	24.7-25.0	20170905	39.6	26.0	13.6	ML	ML: Silt with sand
PT-RI18-26.5-26.8	26.5-26.8	20170905	47.7	29.3	18.4	ML	ML: Sandy silt
PT-RI18-28.5-28.8	28.5-28.8	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel
PT-RI18-33.0-33.3	33.0-33.3	20170906	43.1	28.0	15.1	ML	ML: Sandy silt
PT-RI18-40.5-41.0	40.5-40.7	20170629	58.0	34.1	23.9	MH	GM: Silty gravel
PT-RI18-44.0-44.3	44.0-44.3	--	ATTERBERG LIMITS NOT REQUIRED AS PART OF TEST PROGRAM				SM: Silty sand with gravel

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples and coarse grained samples where ABL was not requested.
 USCS: Unified Soil Classification System

PTS File No: 47229
 Client: Ramboll Environ
 Report Date: 09/20/17

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 2141400C, MO3D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
PT-RI18-53.5-54.0	53.5-53.7	20170629	79.3	43.7	35.6	MH	MH: Elastic silt with sand
PT-RI18-67.5-67.8	67.5-67.8	20170906	53.1	21.5	31.6	CH	CH: Fat clay with sand
PT-RI18-93.5-94.0	93.5-93.7	20170629	168.9	28.1	140.8	CH	SC: Clayey sand
PT-RI18-104.0-104.5	104.0-104.2	20170629	129.9	34.1	95.8	CH	SC: Clayey sand

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples and coarse grained samples where ABL was not requested.
 USCS: Unified Soil Classification System

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

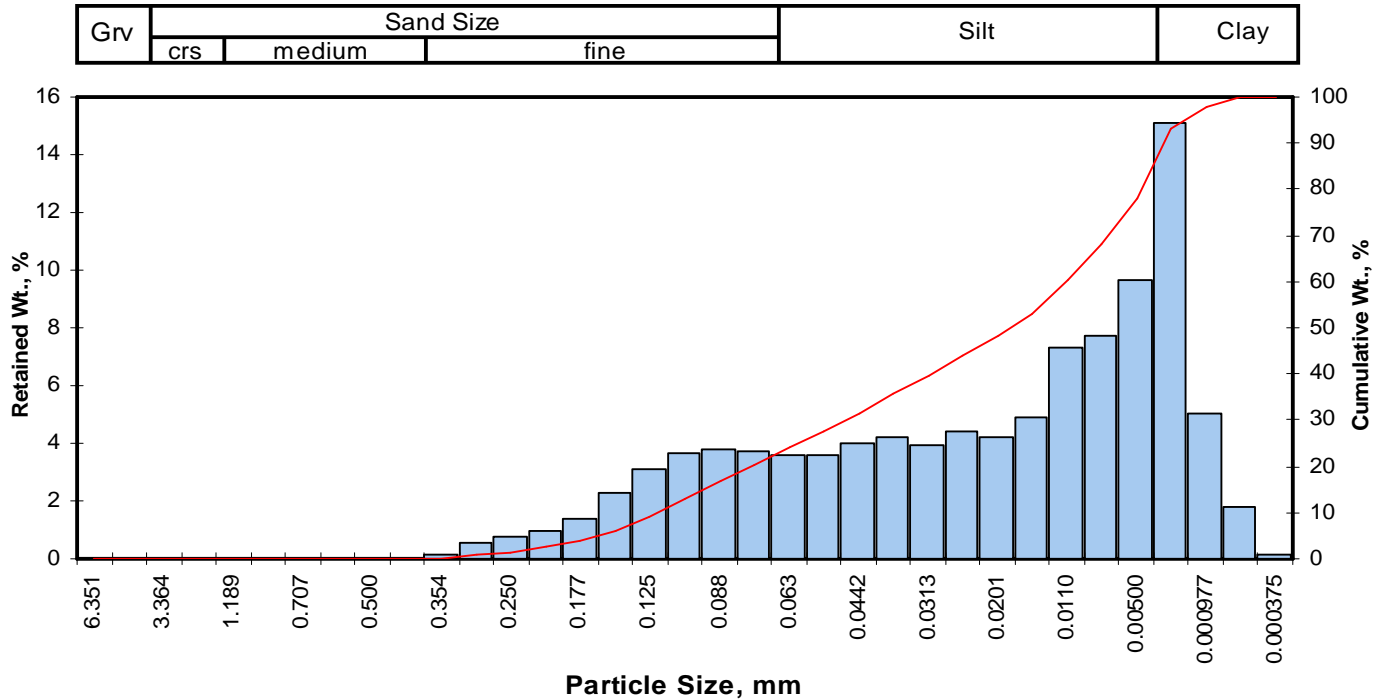
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3B

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI7-74.0-74.5	74.0-74.2	Silt	0.018	0.00	0.00	0.01	20.33	57.52	22.13	79.65
PT-RI7-83.4-83.9	83.4-83.6	Silt	0.011	0.00	0.00	0.00	4.96	71.79	23.25	95.04
PT-RI7-92.5-93.0	92.5-92.7	Silt	0.023	0.00	0.00	8.80	16.91	54.20	20.09	74.29
PT-RI7-103.0-103.5	103.0-103.2	Silt	0.017	0.00	0.00	0.00	13.76	62.93	23.32	86.24
PT-RI7-124.0-124.5	124.0-124.2	Silt	0.027	0.00	0.00	0.00	29.52	48.85	21.63	70.48
PT-RI7-128.0-128.5	128.0-128.5	Silt	0.017	0.00	0.00	0.01	11.83	67.53	20.63	88.16
PT-RI9-31.5-32.0	31.5-31.7	Silt	0.022	0.00	0.00	1.26	19.05	60.71	18.98	79.69
PT-RI9-48.0-48.5	48.0-48.2	Silt	0.027	0.00	0.00	1.50	28.10	52.52	17.87	70.39
PT-RI9-72.5-73.0	72.5-72.7	Silt	0.010	0.00	0.00	0.00	18.04	48.02	33.94	81.96

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-R17-74.0-74.5
 Depth, ft: 74.0-74.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.01	0.01	0.01
0.0139	0.354	1.50	45	0.12	0.12	0.13
0.0117	0.297	1.75	50	0.54	0.54	0.67
0.0098	0.250	2.00	60	0.74	0.74	1.41
0.0083	0.210	2.25	70	0.96	0.96	2.37
0.0070	0.177	2.50	80	1.40	1.40	3.77
0.0059	0.149	2.75	100	2.26	2.26	6.03
0.0049	0.125	3.00	120	3.13	3.13	9.16
0.0041	0.105	3.25	140	3.65	3.65	12.81
0.0035	0.088	3.50	170	3.81	3.81	16.62
0.0029	0.074	3.75	200	3.73	3.73	20.35
0.0025	0.063	4.00	230	3.58	3.58	23.92
0.0021	0.053	4.25	270	3.61	3.61	27.53
0.00174	0.0442	4.50	325	3.98	3.98	31.51
0.00146	0.0372	4.75	400	4.19	4.19	35.70
0.00123	0.0313	5.00	450	3.96	3.96	39.66
0.000986	0.0250	5.32	500	4.44	4.44	44.10
0.000790	0.0201	5.64	635	4.19	4.19	48.29
0.000615	0.0156	6.00		4.89	4.89	53.17
0.000435	0.0110	6.50		7.33	7.33	60.50
0.000308	0.00781	7.00		7.71	7.71	68.21
0.000197	0.00500	7.65		9.66	9.66	77.87
0.000077	0.00195	9.00		15.10	15.10	92.96
0.000038	0.000977	10.00		5.06	5.06	98.02
0.000019	0.000488	11.00		1.82	1.82	99.84
0.000015	0.000375	11.38		0.16	0.16	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.64	0.0063	0.161
10	3.06	0.0047	0.120
16	3.46	0.0036	0.091
25	4.07	0.0023	0.059
40	5.02	0.0012	0.031
50	5.77	0.0007	0.018
60	6.47	0.0004	0.011
75	7.45	0.0002	0.006
84	8.20	0.0001	0.003
90	8.73	0.0001	0.002
95	9.40	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.77	5.77	5.77
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.018	0.018	0.018
Mean, phi	4.94	5.83	5.81
Mean, in.	0.0013	0.0007	0.0007
Mean, mm	0.033	0.018	0.018
Sorting	3.225	2.368	2.209
Skewness	1.002	0.026	0.050
Kurtosis	0.228	0.429	0.821

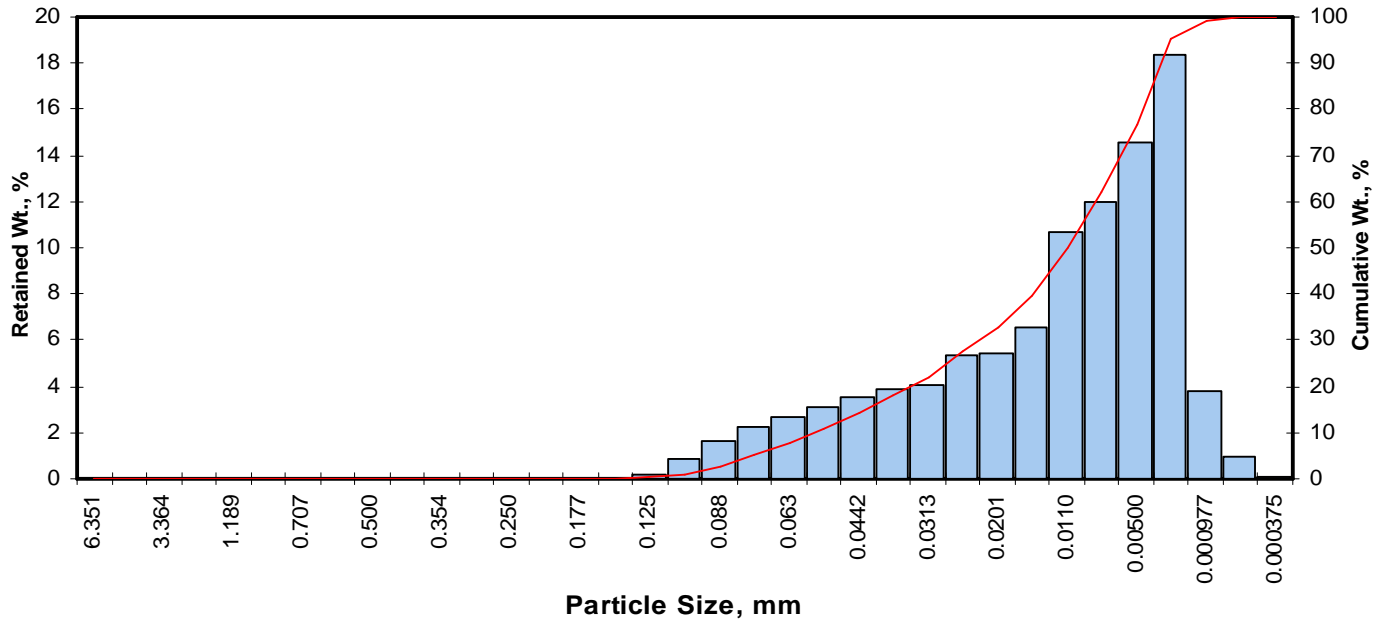
Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.01
Fine Sand	200	20.33
Silt	>0.005 mm	57.52
Clay	<0.005 mm	22.13
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI7-83.4-83.9
 Depth, ft: 83.4-83.6

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.01	0.01	0.01
0.0049	0.125	3.00	120	0.21	0.21	0.22
0.0041	0.105	3.25	140	0.85	0.85	1.07
0.0035	0.088	3.50	170	1.64	1.64	2.71
0.0029	0.074	3.75	200	2.25	2.25	4.96
0.0025	0.063	4.00	230	2.67	2.67	7.63
0.0021	0.053	4.25	270	3.06	3.06	10.69
0.00174	0.0442	4.50	325	3.51	3.51	14.20
0.00146	0.0372	4.75	400	3.87	3.87	18.07
0.00123	0.0313	5.00	450	4.08	4.08	22.15
0.000986	0.0250	5.32	500	5.31	5.31	27.46
0.000790	0.0201	5.64	635	5.45	5.45	32.91
0.000615	0.0156	6.00		6.53	6.53	39.44
0.000435	0.0110	6.50		10.70	10.70	50.15
0.000308	0.00781	7.00		12.00	12.00	62.15
0.000197	0.00500	7.65		14.60	14.60	76.75
0.000077	0.00195	9.00		18.40	18.40	95.15
0.000038	0.000977	10.00		3.83	3.83	98.98
0.000019	0.000488	11.00		0.94	0.94	99.92
0.000015	0.000375	11.38		0.08	0.08	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.75	0.0029	0.074
10	4.19	0.0022	0.055
16	4.62	0.0016	0.041
25	5.17	0.0011	0.028
40	6.03	0.0006	0.015
50	6.49	0.0004	0.011
60	6.91	0.0003	0.008
75	7.57	0.0002	0.005
84	8.18	0.0001	0.003
90	8.62	0.0001	0.003
95	8.99	0.0001	0.002

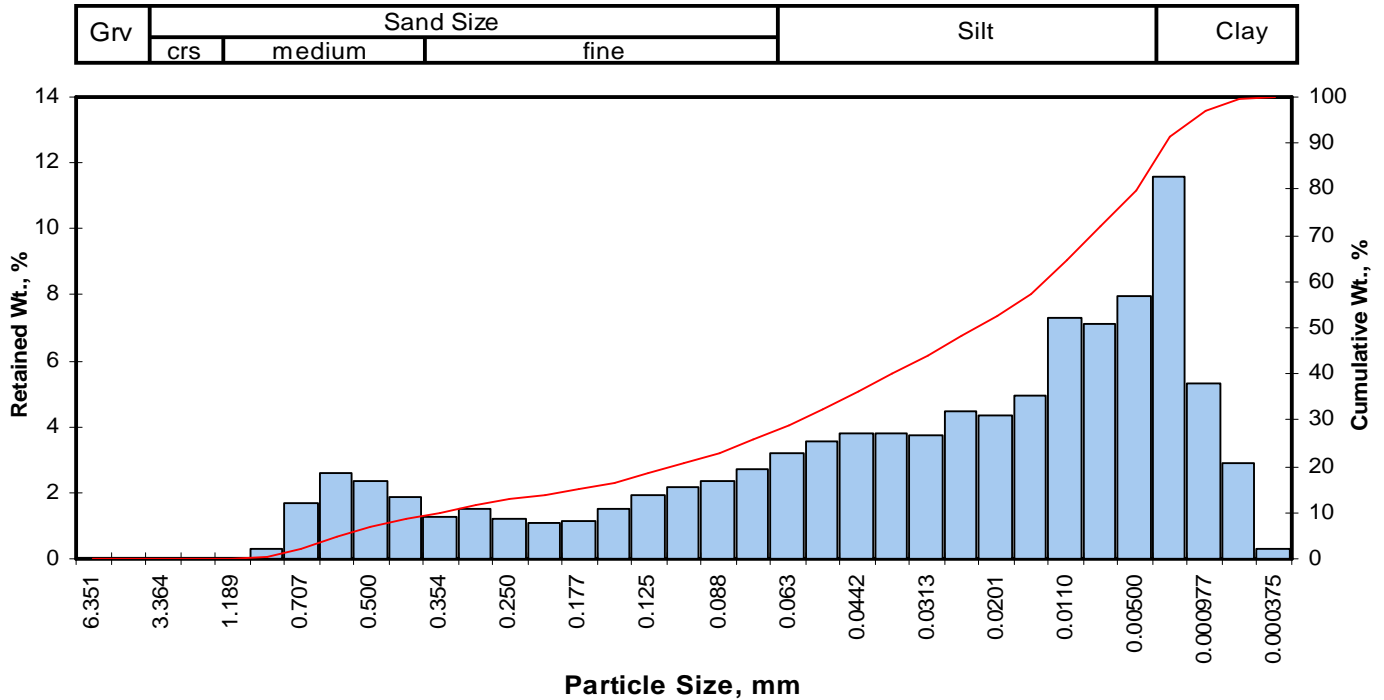
Measure	Trask	Inman	Folk-Ward
Median, phi	6.49	6.49	6.49
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.011	0.011	0.011
Mean, phi	5.92	6.40	6.43
Mean, in.	0.0006	0.0005	0.0005
Mean, mm	0.017	0.012	0.012
Sorting	2.294	1.781	1.684
Skewness	1.089	-0.054	-0.050
Kurtosis	0.216	0.469	0.895

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	4.96
Silt	>0.005 mm	71.79
Clay	<0.005 mm	23.25
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-R17-92.5-93.0
 Depth, ft: 92.5-92.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.32	0.32	0.32
0.0278	0.707	0.50	25	1.69	1.69	2.01
0.0234	0.595	0.75	30	2.58	2.58	4.59
0.0197	0.500	1.00	35	2.34	2.34	6.93
0.0166	0.420	1.25	40	1.87	1.87	8.80
0.0139	0.354	1.50	45	1.25	1.25	10.05
0.0117	0.297	1.75	50	1.50	1.50	11.55
0.0098	0.250	2.00	60	1.19	1.19	12.74
0.0083	0.210	2.25	70	1.11	1.11	13.85
0.0070	0.177	2.50	80	1.16	1.16	15.01
0.0059	0.149	2.75	100	1.51	1.51	16.52
0.0049	0.125	3.00	120	1.93	1.93	18.45
0.0041	0.105	3.25	140	2.17	2.17	20.62
0.0035	0.088	3.50	170	2.37	2.37	22.99
0.0029	0.074	3.75	200	2.72	2.72	25.71
0.0025	0.063	4.00	230	3.17	3.17	28.88
0.0021	0.053	4.25	270	3.55	3.55	32.43
0.00174	0.0442	4.50	325	3.79	3.79	36.22
0.00146	0.0372	4.75	400	3.83	3.83	40.05
0.00123	0.0313	5.00	450	3.73	3.73	43.78
0.000986	0.0250	5.32	500	4.49	4.49	48.27
0.000790	0.0201	5.64	635	4.32	4.32	52.60
0.000615	0.0156	6.00		4.94	4.94	57.54
0.000435	0.0110	6.50		7.30	7.30	64.84
0.000308	0.00781	7.00		7.12	7.12	71.96
0.000197	0.00500	7.65		7.95	7.95	79.91
0.000077	0.00195	9.00		11.60	11.60	91.51
0.000038	0.000977	10.00		5.30	5.30	96.81
0.000019	0.000488	11.00		2.89	2.89	99.70
0.000015	0.000375	11.38		0.30	0.30	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.79	0.0227	0.577
10	1.49	0.0140	0.356
16	2.66	0.0062	0.158
25	3.68	0.0031	0.078
40	4.75	0.0015	0.037
50	5.45	0.0009	0.023
60	6.17	0.0005	0.014
75	7.25	0.0003	0.007
84	8.12	0.0001	0.004
90	8.82	0.0001	0.002
95	9.66	0.0000	0.001

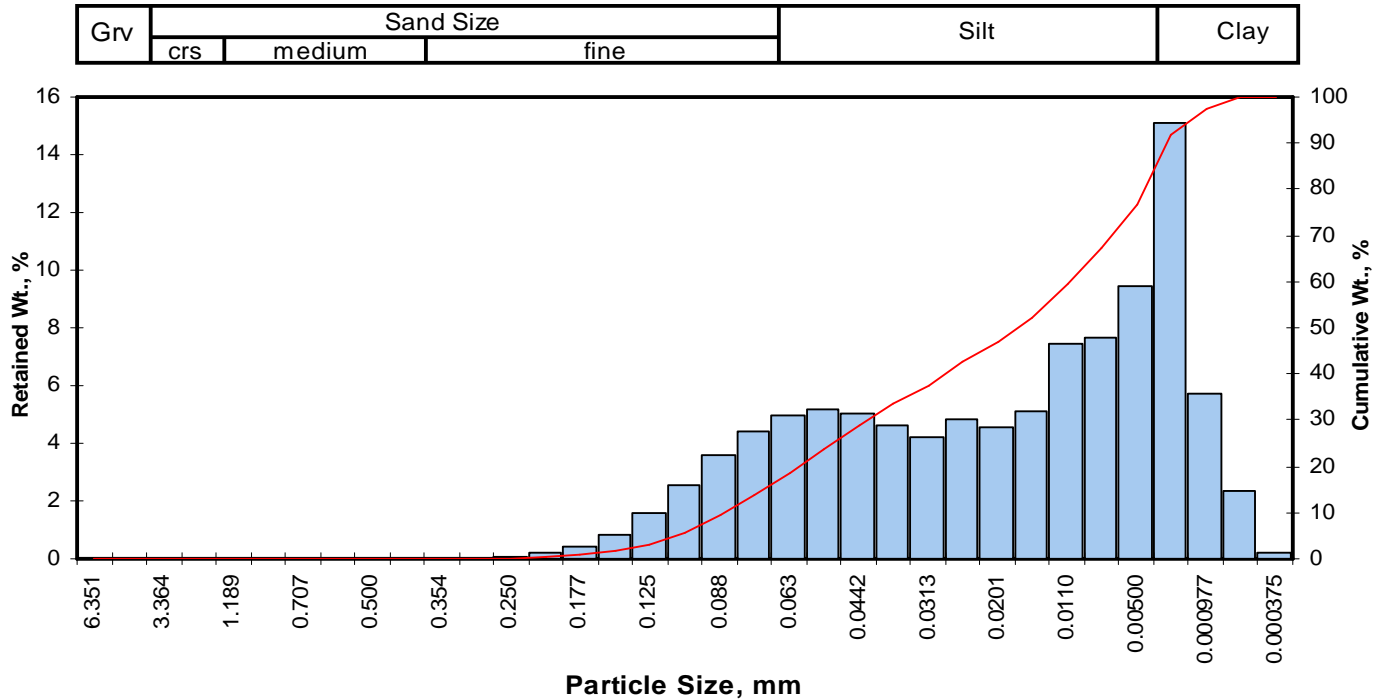
Measure	Trask	Inman	Folk-Ward
Median, phi	5.45	5.45	5.45
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.023	0.023	0.023
Mean, phi	4.57	5.39	5.41
Mean, in.	0.0017	0.0009	0.0009
Mean, mm	0.042	0.024	0.023
Sorting	3.437	2.730	2.708
Skewness	0.988	-0.020	-0.035
Kurtosis	0.101	0.624	1.020

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	8.80
Fine Sand	200	16.91
Silt	>0.005 mm	54.20
Clay	<0.005 mm	20.09
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3B

PTS File No: 47229
Sample ID: PT-RI7-103.0-103.5
Depth, ft: 103.0-103.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.01	0.01	0.01
0.0098	0.250	2.00	60	0.08	0.08	0.09
0.0083	0.210	2.25	70	0.23	0.23	0.32
0.0070	0.177	2.50	80	0.43	0.43	0.75
0.0059	0.149	2.75	100	0.84	0.84	1.59
0.0049	0.125	3.00	120	1.58	1.58	3.17
0.0041	0.105	3.25	140	2.57	2.57	5.75
0.0035	0.088	3.50	170	3.58	3.58	9.33
0.0029	0.074	3.75	200	4.43	4.43	13.76
0.0025	0.063	4.00	230	4.98	4.98	18.74
0.0021	0.053	4.25	270	5.14	5.14	23.88
0.00174	0.0442	4.50	325	5.00	5.00	28.88
0.00146	0.0372	4.75	400	4.63	4.63	33.51
0.00123	0.0313	5.00	450	4.19	4.19	37.70
0.000986	0.0250	5.32	500	4.81	4.81	42.52
0.000790	0.0201	5.64	635	4.53	4.53	47.05
0.000615	0.0156	6.00		5.07	5.07	52.12
0.000435	0.0110	6.50		7.44	7.44	59.56
0.000308	0.00781	7.00		7.66	7.66	67.22
0.000197	0.00500	7.65		9.46	9.46	76.68
0.000077	0.00195	9.00		15.10	15.10	91.79
0.000038	0.000977	10.00		5.69	5.69	97.48
0.000019	0.000488	11.00		2.31	2.31	99.79
0.000015	0.000375	11.38		0.21	0.21	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.18	0.0044	0.111
10	3.54	0.0034	0.086
16	3.86	0.0027	0.069
25	4.31	0.0020	0.051
40	5.15	0.0011	0.028
50	5.85	0.0007	0.017
60	6.53	0.0004	0.011
75	7.53	0.0002	0.005
84	8.30	0.0001	0.003
90	8.84	0.0001	0.002
95	9.56	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.85	5.85	5.85
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	5.16	6.08	6.00
Mean, in.	0.0011	0.0006	0.0006
Mean, mm	0.028	0.015	0.016
Sorting	3.057	2.219	2.077
Skewness	0.954	0.105	0.134
Kurtosis	0.269	0.439	0.812

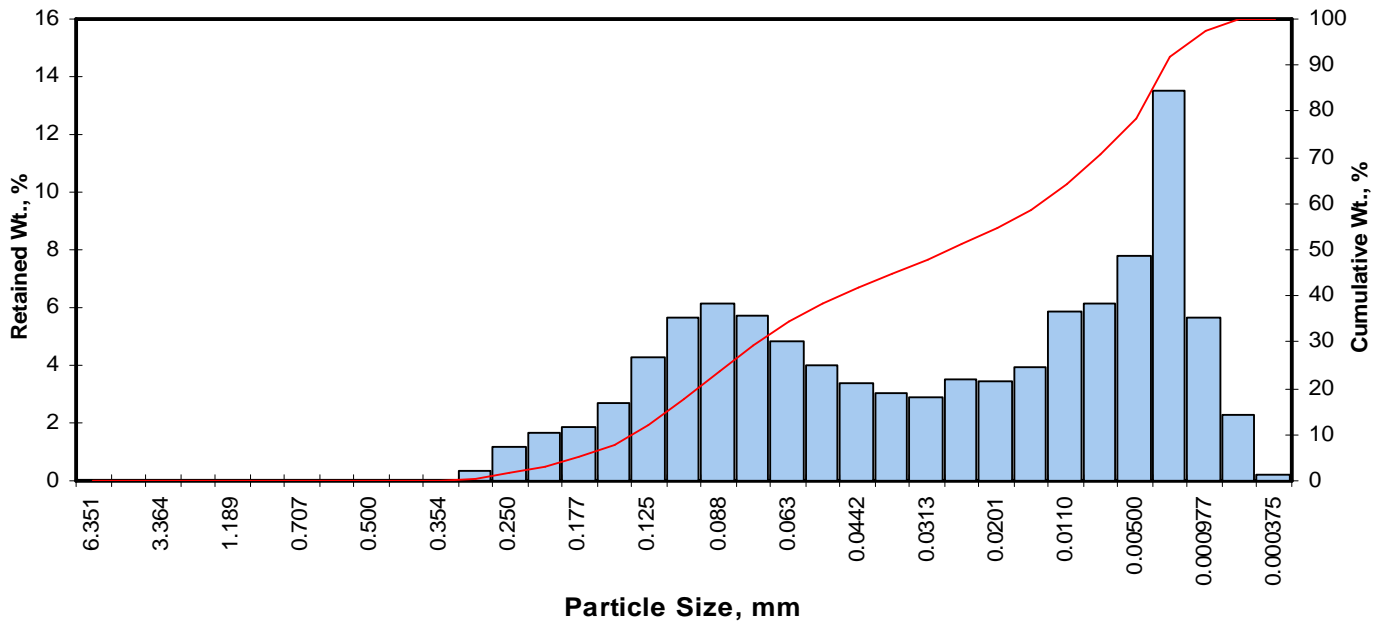
Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	13.76
Silt	>0.005 mm	62.93
Clay	<0.005 mm	23.32
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI7-124.0-124.5
 Depth, ft: 124.0-124.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.01	0.01	0.01
0.0117	0.297	1.75	50	0.37	0.37	0.38
0.0098	0.250	2.00	60	1.17	1.17	1.55
0.0083	0.210	2.25	70	1.66	1.66	3.21
0.0070	0.177	2.50	80	1.89	1.89	5.10
0.0059	0.149	2.75	100	2.71	2.71	7.81
0.0049	0.125	3.00	120	4.25	4.25	12.06
0.0041	0.105	3.25	140	5.64	5.64	17.70
0.0035	0.088	3.50	170	6.11	6.11	23.82
0.0029	0.074	3.75	200	5.70	5.70	29.52
0.0025	0.063	4.00	230	4.85	4.85	34.37
0.0021	0.053	4.25	270	3.99	3.99	38.36
0.00174	0.0442	4.50	325	3.39	3.39	41.75
0.00146	0.0372	4.75	400	3.06	3.06	44.81
0.00123	0.0313	5.00	450	2.88	2.88	47.69
0.000986	0.0250	5.32	500	3.51	3.51	51.20
0.000790	0.0201	5.64	635	3.43	3.43	54.63
0.000615	0.0156	6.00		3.90	3.90	58.53
0.000435	0.0110	6.50		5.85	5.85	64.38
0.000308	0.00781	7.00		6.16	6.16	70.54
0.000197	0.00500	7.65		7.82	7.82	78.37
0.000077	0.00195	9.00		13.50	13.50	91.87
0.000038	0.000977	10.00		5.62	5.62	97.49
0.000019	0.000488	11.00		2.30	2.30	99.79
0.000015	0.000375	11.38		0.21	0.21	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.49	0.0070	0.178
10	2.88	0.0054	0.136
16	3.17	0.0044	0.111
25	3.55	0.0034	0.085
40	4.37	0.0019	0.048
50	5.21	0.0011	0.027
60	6.13	0.0006	0.014
75	7.37	0.0002	0.006
84	8.21	0.0001	0.003
90	8.81	0.0001	0.002
95	9.56	0.0001	0.001

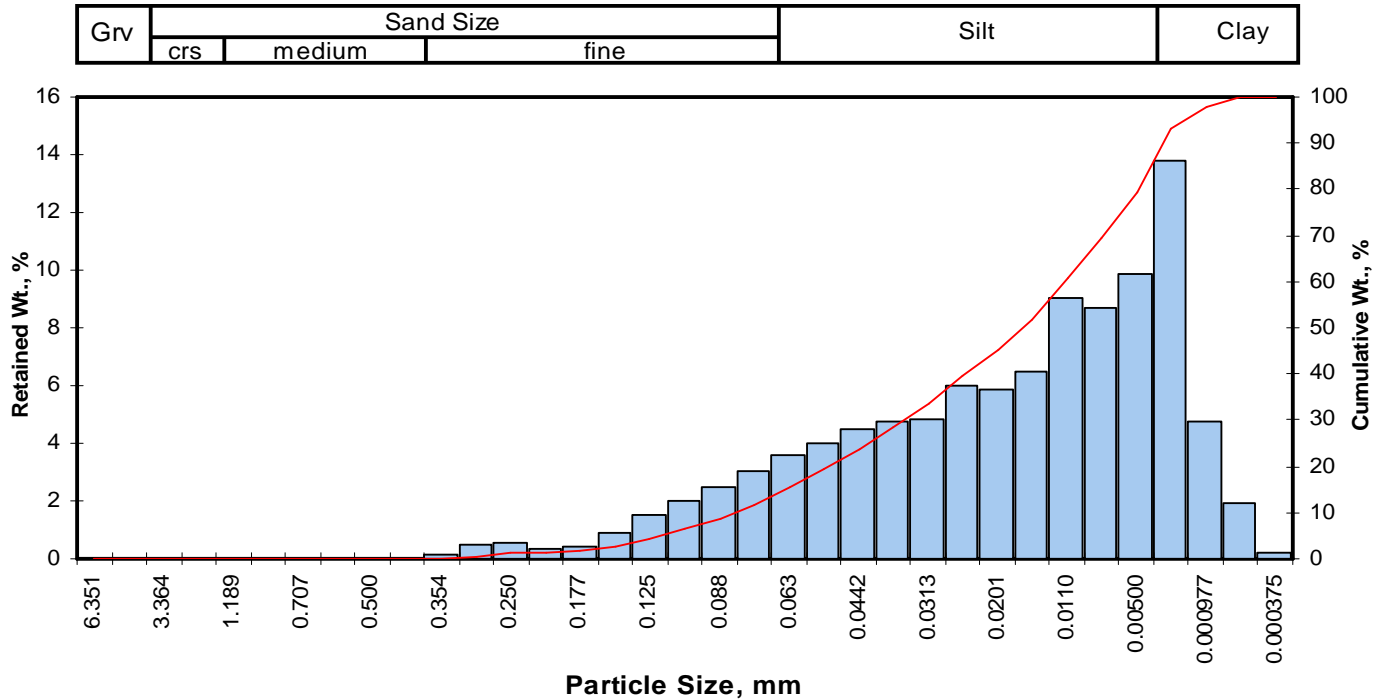
Measure	Trask	Inman	Folk-Ward
Median, phi	5.21	5.21	5.21
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	4.45	5.69	5.53
Mean, in.	0.0018	0.0008	0.0009
Mean, mm	0.046	0.019	0.022
Sorting	3.752	2.518	2.330
Skewness	0.841	0.191	0.210
Kurtosis	0.296	0.404	0.759

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	29.52
Silt	>0.005 mm	48.85
Clay	<0.005 mm	21.63
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI7-128.0-128.5
 Depth, ft: 128.0-128.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.01	0.01	0.01
0.0139	0.354	1.50	45	0.11	0.11	0.12
0.0117	0.297	1.75	50	0.50	0.50	0.62
0.0098	0.250	2.00	60	0.52	0.52	1.14
0.0083	0.210	2.25	70	0.36	0.36	1.50
0.0070	0.177	2.50	80	0.39	0.39	1.89
0.0059	0.149	2.75	100	0.88	0.88	2.77
0.0049	0.125	3.00	120	1.54	1.54	4.31
0.0041	0.105	3.25	140	2.03	2.03	6.34
0.0035	0.088	3.50	170	2.48	2.48	8.82
0.0029	0.074	3.75	200	3.02	3.02	11.84
0.0025	0.063	4.00	230	3.57	3.57	15.41
0.0021	0.053	4.25	270	4.03	4.03	19.44
0.00174	0.0442	4.50	325	4.47	4.47	23.91
0.00146	0.0372	4.75	400	4.74	4.74	28.65
0.00123	0.0313	5.00	450	4.82	4.82	33.47
0.000986	0.0250	5.32	500	6.00	6.00	39.47
0.000790	0.0201	5.64	635	5.84	5.84	45.31
0.000615	0.0156	6.00		6.47	6.47	51.78
0.000435	0.0110	6.50		9.05	9.05	60.83
0.000308	0.00781	7.00		8.69	8.69	69.52
0.000197	0.00500	7.65		9.85	9.85	79.37
0.000077	0.00195	9.00		13.80	13.80	93.17
0.000038	0.000977	10.00		4.73	4.73	97.90
0.000019	0.000488	11.00		1.92	1.92	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.08	0.0046	0.118
10	3.60	0.0033	0.083
16	4.04	0.0024	0.061
25	4.56	0.0017	0.042
40	5.35	0.0010	0.025
50	5.90	0.0007	0.017
60	6.45	0.0004	0.011
75	7.36	0.0002	0.006
84	8.10	0.0001	0.004
90	8.69	0.0001	0.002
95	9.39	0.0001	0.001

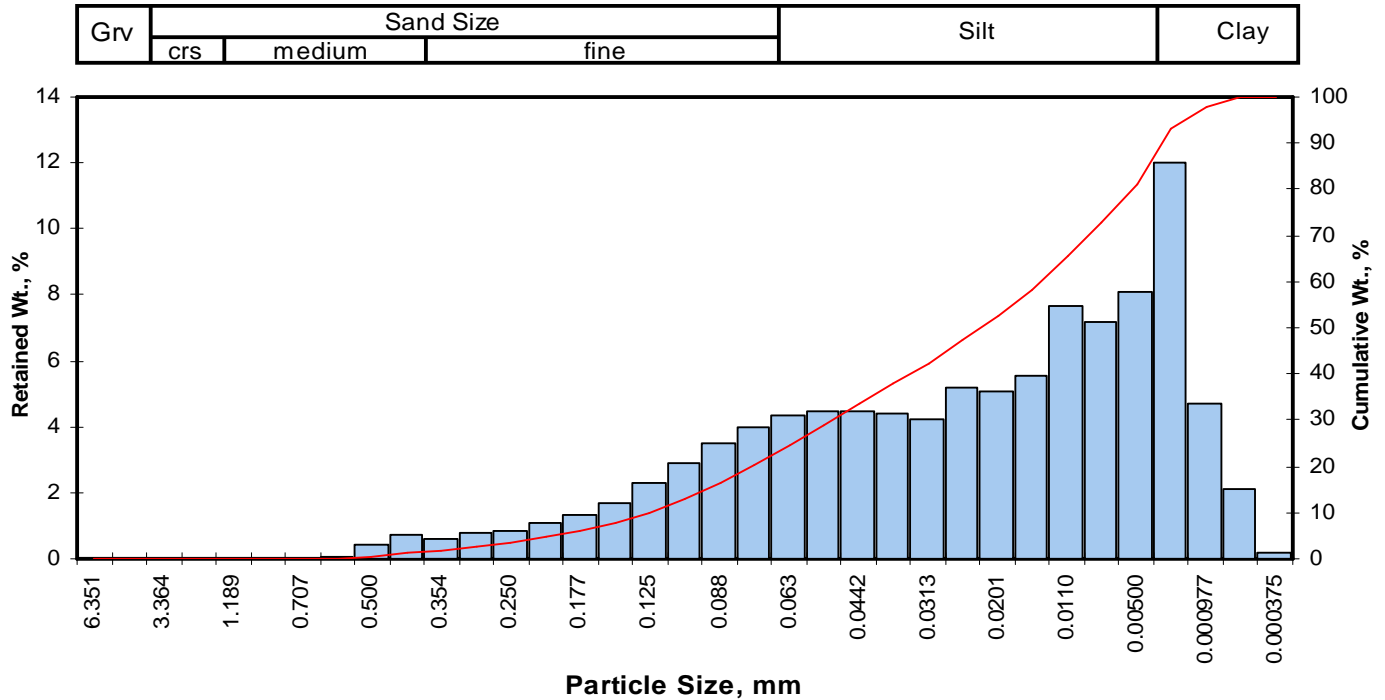
Measure	Trask	Inman	Folk-Ward
Median, phi	5.90	5.90	5.90
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	5.36	6.07	6.01
Mean, in.	0.0010	0.0006	0.0006
Mean, mm	0.024	0.015	0.015
Sorting	2.640	2.032	1.971
Skewness	0.961	0.082	0.094
Kurtosis	0.227	0.551	0.922

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.01
Fine Sand	200	11.83
Silt	>0.005 mm	67.53
Clay	<0.005 mm	20.63
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI9-31.5-32.0
 Depth, ft: 31.5-31.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.07	0.07	0.08
0.0197	0.500	1.00	35	0.44	0.44	0.52
0.0166	0.420	1.25	40	0.74	0.74	1.26
0.0139	0.354	1.50	45	0.61	0.61	1.87
0.0117	0.297	1.75	50	0.80	0.80	2.67
0.0098	0.250	2.00	60	0.84	0.84	3.50
0.0083	0.210	2.25	70	1.09	1.09	4.59
0.0070	0.177	2.50	80	1.34	1.34	5.93
0.0059	0.149	2.75	100	1.71	1.71	7.64
0.0049	0.125	3.00	120	2.27	2.27	9.91
0.0041	0.105	3.25	140	2.91	2.91	12.82
0.0035	0.088	3.50	170	3.50	3.50	16.32
0.0029	0.074	3.75	200	3.99	3.99	20.31
0.0025	0.063	4.00	230	4.32	4.32	24.63
0.0021	0.053	4.25	270	4.46	4.46	29.08
0.00174	0.0442	4.50	325	4.48	4.48	33.56
0.00146	0.0372	4.75	400	4.38	4.38	37.94
0.00123	0.0313	5.00	450	4.24	4.24	42.18
0.000986	0.0250	5.32	500	5.20	5.20	47.37
0.000790	0.0201	5.64	635	5.07	5.07	52.44
0.000615	0.0156	6.00		5.58	5.58	58.02
0.000435	0.0110	6.50		7.68	7.68	65.70
0.000308	0.00781	7.00		7.21	7.21	72.90
0.000197	0.00500	7.65		8.12	8.12	81.02
0.000077	0.00195	9.00		12.00	11.99	93.01
0.000038	0.000977	10.00		4.69	4.69	97.70
0.000019	0.000488	11.00		2.10	2.10	99.80
0.000015	0.000375	11.38		0.20	0.20	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.33	0.0079	0.199
10	3.01	0.0049	0.124
16	3.48	0.0035	0.090
25	4.02	0.0024	0.062
40	4.87	0.0013	0.034
50	5.49	0.0009	0.022
60	6.13	0.0006	0.014
75	7.17	0.0003	0.007
84	7.98	0.0002	0.004
90	8.66	0.0001	0.002
95	9.42	0.0001	0.001

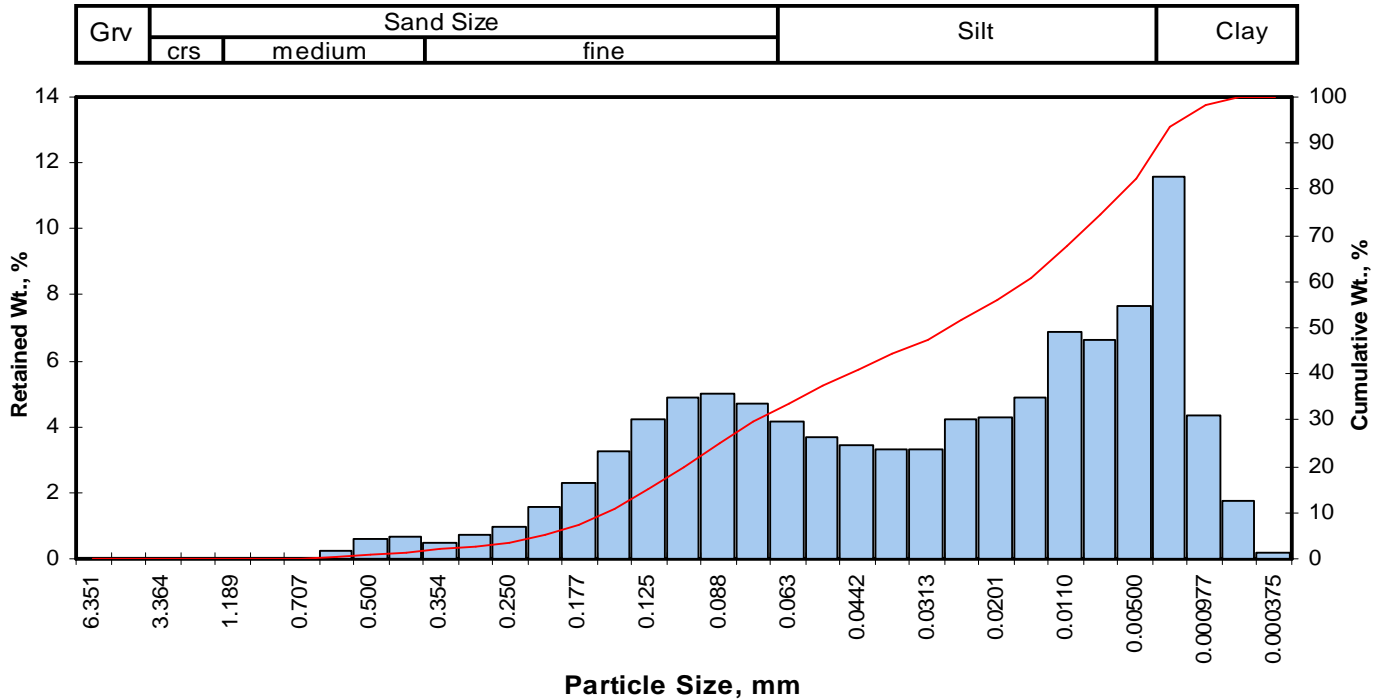
Measure	Trask	Inman	Folk-Ward
Median, phi	5.49	5.49	5.49
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.022	0.022	0.022
Mean, phi	4.87	5.73	5.65
Mean, in.	0.0013	0.0007	0.0008
Mean, mm	0.034	0.019	0.020
Sorting	2.975	2.252	2.202
Skewness	0.928	0.108	0.109
Kurtosis	0.224	0.576	0.925

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.26
Fine Sand	200	19.05
Silt	>0.005 mm	60.71
Clay	<0.005 mm	18.98
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI9-48.0-48.5
 Depth, ft: 48.0-48.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.02	0.02	0.02
0.0234	0.595	0.75	30	0.22	0.22	0.24
0.0197	0.500	1.00	35	0.59	0.59	0.83
0.0166	0.420	1.25	40	0.67	0.67	1.50
0.0139	0.354	1.50	45	0.48	0.48	1.98
0.0117	0.297	1.75	50	0.70	0.70	2.68
0.0098	0.250	2.00	60	0.97	0.97	3.65
0.0083	0.210	2.25	70	1.56	1.56	5.21
0.0070	0.177	2.50	80	2.28	2.28	7.49
0.0059	0.149	2.75	100	3.25	3.25	10.74
0.0049	0.125	3.00	120	4.25	4.25	14.99
0.0041	0.105	3.25	140	4.90	4.90	19.90
0.0035	0.088	3.50	170	5.02	5.02	24.92
0.0029	0.074	3.75	200	4.69	4.69	29.61
0.0025	0.063	4.00	230	4.17	4.17	33.78
0.0021	0.053	4.25	270	3.69	3.69	37.47
0.00174	0.0442	4.50	325	3.43	3.43	40.90
0.00146	0.0372	4.75	400	3.33	3.33	44.23
0.00123	0.0313	5.00	450	3.31	3.31	47.54
0.000986	0.0250	5.32	500	4.22	4.22	51.76
0.000790	0.0201	5.64	635	4.30	4.30	56.06
0.000615	0.0156	6.00		4.90	4.90	60.96
0.000435	0.0110	6.50		6.90	6.90	67.86
0.000308	0.00781	7.00		6.61	6.61	74.48
0.000197	0.00500	7.65		7.65	7.65	82.13
0.000077	0.00195	9.00		11.60	11.60	93.73
0.000038	0.000977	10.00		4.35	4.35	98.08
0.000019	0.000488	11.00		1.76	1.76	99.84
0.000015	0.000375	11.38		0.16	0.16	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.22	0.0085	0.215
10	2.69	0.0061	0.155
16	3.05	0.0047	0.121
25	3.50	0.0035	0.088
40	4.43	0.0018	0.046
50	5.19	0.0011	0.027
60	5.93	0.0006	0.016
75	7.04	0.0003	0.008
84	7.86	0.0002	0.004
90	8.56	0.0001	0.003
95	9.29	0.0001	0.002

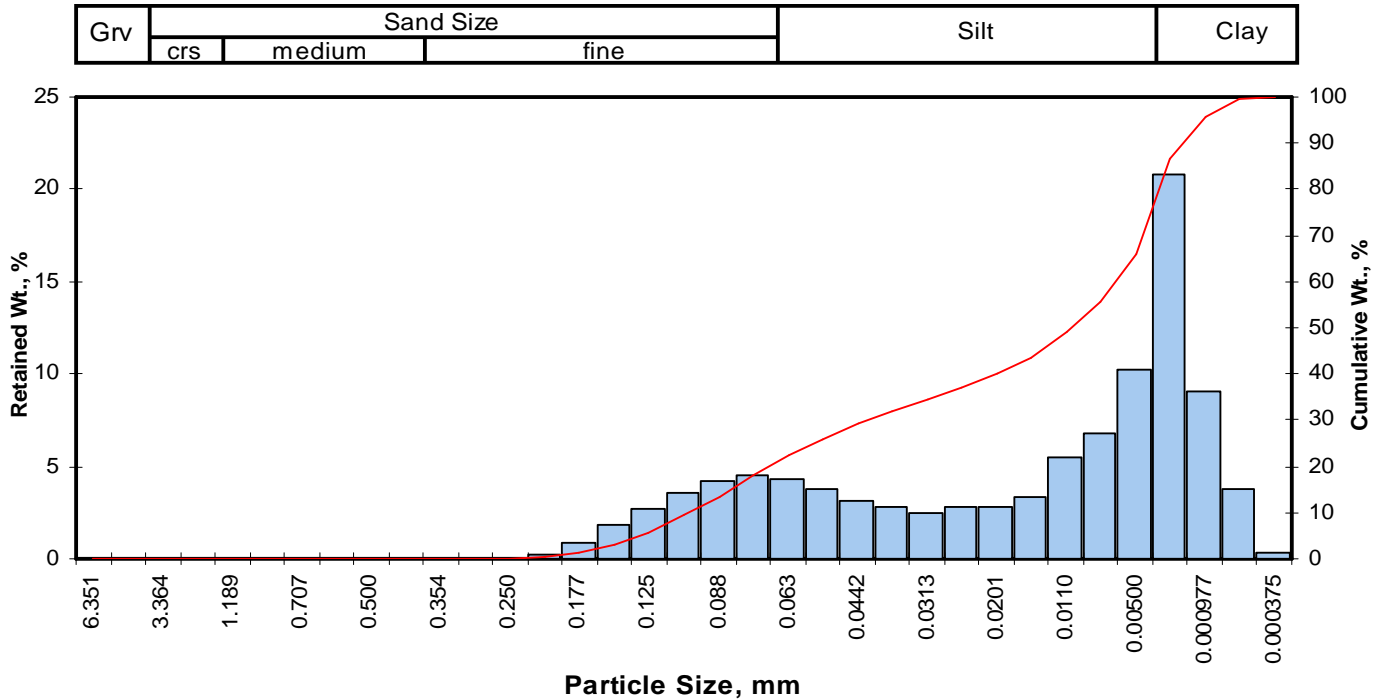
Measure	Trask	Inman	Folk-Ward
Median, phi	5.19	5.19	5.19
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	4.39	5.46	5.37
Mean, in.	0.0019	0.0009	0.0010
Mean, mm	0.048	0.023	0.024
Sorting	3.410	2.406	2.275
Skewness	0.941	0.113	0.137
Kurtosis	0.265	0.470	0.819

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.50
Fine Sand	200	28.10
Silt	>0.005 mm	52.52
Clay	<0.005 mm	17.87
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI9-72.5-73.0
 Depth, ft: 72.5-72.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.02	0.02	0.02
0.0083	0.210	2.25	70	0.23	0.23	0.25
0.0070	0.177	2.50	80	0.89	0.89	1.14
0.0059	0.149	2.75	100	1.85	1.85	2.99
0.0049	0.125	3.00	120	2.74	2.74	5.72
0.0041	0.105	3.25	140	3.57	3.57	9.29
0.0035	0.088	3.50	170	4.24	4.24	13.52
0.0029	0.074	3.75	200	4.52	4.52	18.04
0.0025	0.063	4.00	230	4.28	4.28	22.32
0.0021	0.053	4.25	270	3.73	3.73	26.04
0.00174	0.0442	4.50	325	3.18	3.18	29.22
0.00146	0.0372	4.75	400	2.76	2.76	31.98
0.00123	0.0313	5.00	450	2.44	2.44	34.41
0.000986	0.0250	5.32	500	2.82	2.82	37.23
0.000790	0.0201	5.64	635	2.80	2.80	40.03
0.000615	0.0156	6.00		3.38	3.38	43.41
0.000435	0.0110	6.50		5.54	5.53	48.94
0.000308	0.00781	7.00		6.84	6.83	55.77
0.000197	0.00500	7.65		10.30	10.29	66.06
0.000077	0.00195	9.00		20.80	20.78	86.84
0.000038	0.000977	10.00		9.05	9.04	95.88
0.000019	0.000488	11.00		3.77	3.77	99.65
0.000015	0.000375	11.38		0.35	0.35	100.00
TOTALS				100.10	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.93	0.0052	0.131
10	3.29	0.0040	0.102
16	3.64	0.0032	0.080
25	4.18	0.0022	0.055
40	5.64	0.0008	0.020
50	6.58	0.0004	0.010
60	7.26	0.0003	0.007
75	8.23	0.0001	0.003
84	8.81	0.0001	0.002
90	9.35	0.0001	0.002
95	9.90	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.58	6.58	6.58
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.010	0.010	0.010
Mean, phi	5.10	6.23	6.34
Mean, in.	0.0012	0.0005	0.0005
Mean, mm	0.029	0.013	0.012
Sorting	4.067	2.589	2.350
Skewness	1.296	-0.136	-0.091
Kurtosis	0.258	0.346	0.706

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	18.04
Silt	>0.005 mm	48.02
Clay	<0.005 mm	33.94
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

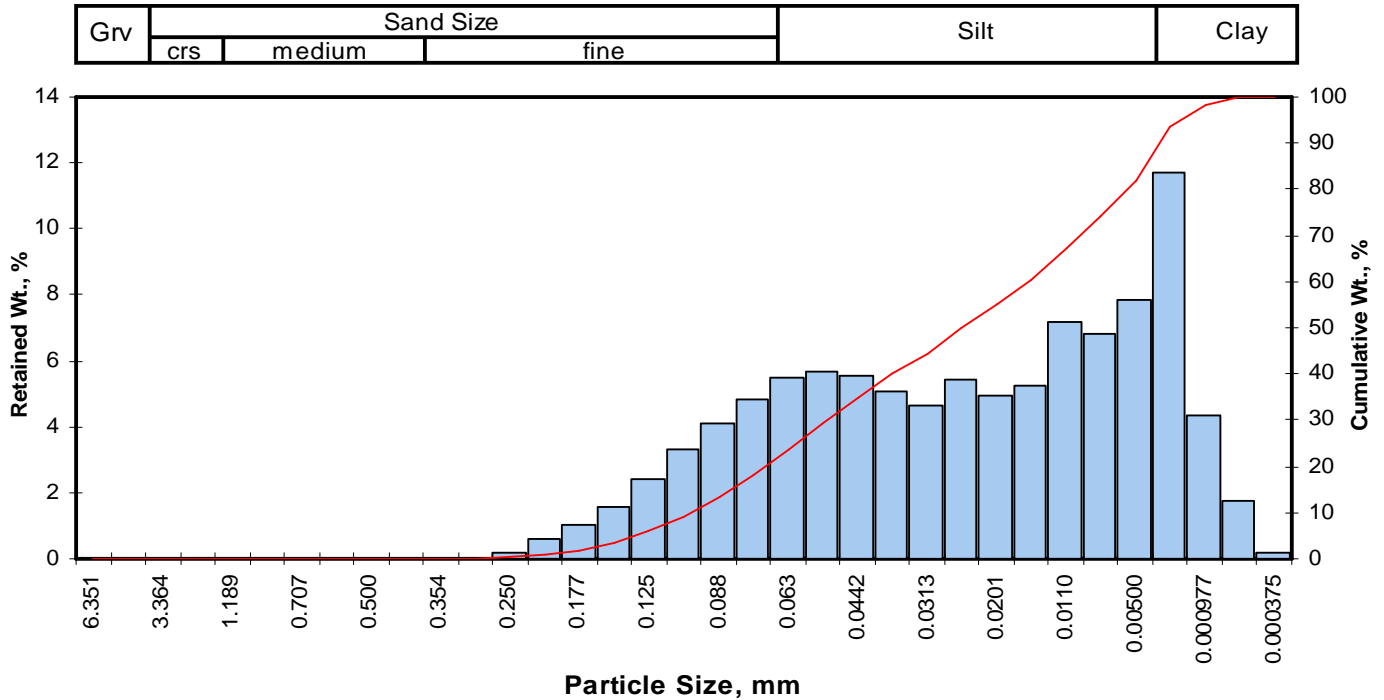
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3B

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI9-100.7-101.2	100.7-100.9	Silt	0.025	0.00	0.00	0.00	18.16	63.86	17.98	81.84
PT-RI9-103.8-104.3	103.8-104.0	Silt	0.019	0.00	0.00	0.40	12.55	70.16	16.89	87.05
PT-RI9-108.5-109.0	108.5-108.7	Silt	0.027	0.00	0.00	2.08	19.19	62.93	15.80	78.73
PT-RI9-122.5-123.0	122.5-122.7	Silt	0.018	0.00	0.00	4.79	13.37	59.01	22.83	81.84
PT-RI9-128.0-128.5	128.0-128.2	Silt	0.014	0.00	0.00	0.00	12.41	60.81	26.78	87.59
PT-RI10-102.5-103.0	102.5-102.7	Fine sand	0.051	0.00	0.00	27.12	15.06	42.71	15.11	57.82
PT-RI10-112.3-112.6	112.3-112.6	Silt	0.027	0.00	0.00	2.13	25.32	53.41	19.15	72.55
PT-RI10-118.4-118.8	118.4-118.6	Silt	0.015	0.00	0.00	1.04	9.68	70.75	18.53	89.28
PT-RI20-41.0-41.5	41.0-41.2	Silt	0.030	0.00	0.00	3.98	26.42	50.57	19.03	69.59
PT-RI20-48.5-49.0	48.5-48.7	Silt	0.022	0.00	0.00	4.59	22.42	51.06	21.94	72.99

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI9-100.7-101.2
 Depth, ft: 100.7-100.9



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.02	0.02	0.02
0.0098	0.250	2.00	60	0.20	0.20	0.22
0.0083	0.210	2.25	70	0.63	0.63	0.85
0.0070	0.177	2.50	80	1.05	1.05	1.90
0.0059	0.149	2.75	100	1.57	1.57	3.47
0.0049	0.125	3.00	120	2.39	2.39	5.86
0.0041	0.105	3.25	140	3.32	3.32	9.18
0.0035	0.088	3.50	170	4.13	4.13	13.31
0.0029	0.074	3.75	200	4.85	4.85	18.16
0.0025	0.063	4.00	230	5.46	5.46	23.62
0.0021	0.053	4.25	270	5.70	5.70	29.33
0.00174	0.0442	4.50	325	5.53	5.53	34.86
0.00146	0.0372	4.75	400	5.09	5.09	39.95
0.00123	0.0313	5.00	450	4.66	4.66	44.61
0.000986	0.0250	5.32	500	5.41	5.41	50.02
0.000790	0.0201	5.64	635	4.96	4.96	54.99
0.000615	0.0156	6.00		5.25	5.25	60.24
0.000435	0.0110	6.50		7.16	7.16	67.40
0.000308	0.00781	7.00		6.80	6.80	74.20
0.000197	0.00500	7.65		7.82	7.82	82.02
0.000077	0.00195	9.00		11.70	11.70	93.73
0.000038	0.000977	10.00		4.36	4.36	98.09
0.000019	0.000488	11.00		1.75	1.75	99.84
0.000015	0.000375	11.38		0.16	0.16	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.91	0.0052	0.133
10	3.30	0.0040	0.102
16	3.64	0.0032	0.080
25	4.06	0.0024	0.060
40	4.75	0.0015	0.037
50	5.32	0.0010	0.025
60	5.98	0.0006	0.016
75	7.07	0.0003	0.007
84	7.87	0.0002	0.004
90	8.57	0.0001	0.003
95	9.29	0.0001	0.002

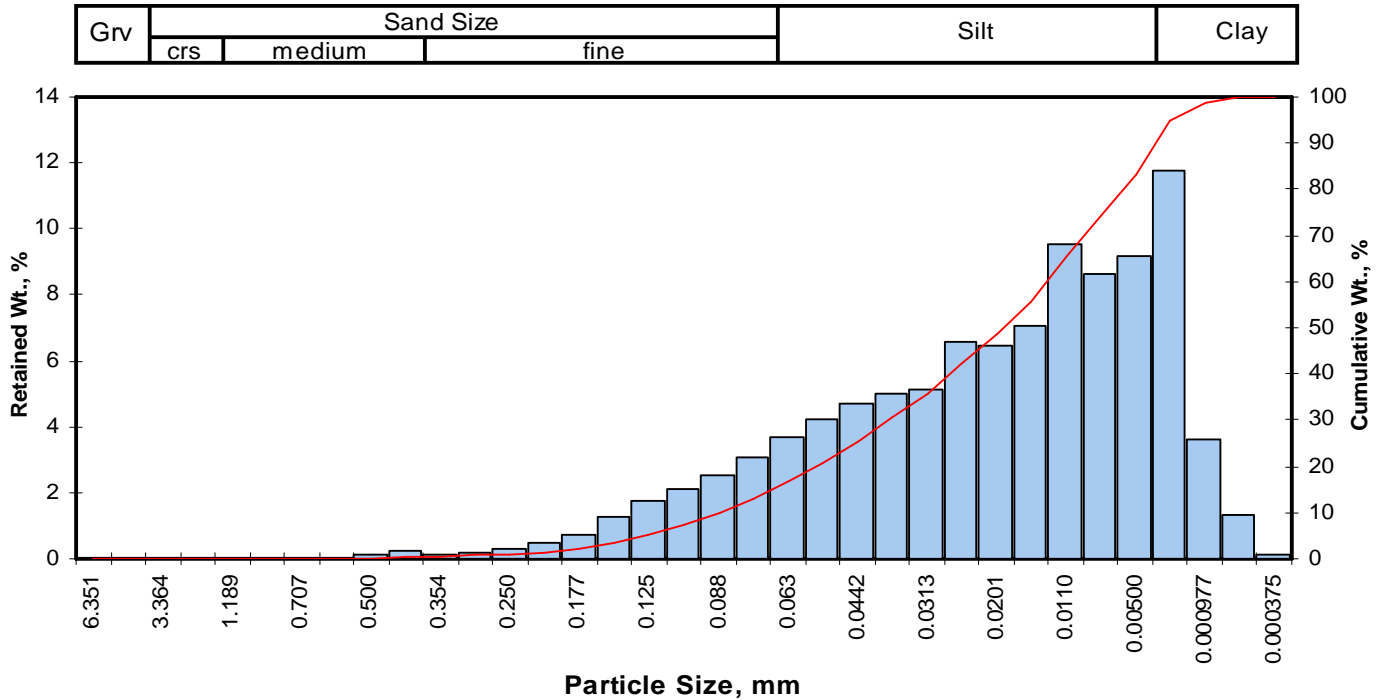
Measure	Trask	Inman	Folk-Ward
Median, phi	5.32	5.32	5.32
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.025	0.025	0.025
Mean, phi	4.89	5.76	5.61
Mean, in.	0.0013	0.0007	0.0008
Mean, mm	0.034	0.019	0.020
Sorting	2.834	2.118	2.026
Skewness	0.844	0.207	0.226
Kurtosis	0.265	0.507	0.870

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	18.16
Silt	>0.005 mm	63.86
Clay	<0.005 mm	17.98
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI9-103.8-104.3
 Depth, ft: 103.8-104.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.15	0.15	0.16
0.0166	0.420	1.25	40	0.24	0.24	0.40
0.0139	0.354	1.50	45	0.15	0.15	0.55
0.0117	0.297	1.75	50	0.19	0.19	0.74
0.0098	0.250	2.00	60	0.28	0.28	1.02
0.0083	0.210	2.25	70	0.46	0.46	1.48
0.0070	0.177	2.50	80	0.75	0.75	2.23
0.0059	0.149	2.75	100	1.25	1.25	3.48
0.0049	0.125	3.00	120	1.77	1.77	5.25
0.0041	0.105	3.25	140	2.14	2.14	7.39
0.0035	0.088	3.50	170	2.51	2.51	9.90
0.0029	0.074	3.75	200	3.05	3.05	12.95
0.0025	0.063	4.00	230	3.67	3.67	16.62
0.0021	0.053	4.25	270	4.21	4.21	20.83
0.00174	0.0442	4.50	325	4.68	4.68	25.51
0.00146	0.0372	4.75	400	4.98	4.98	30.49
0.00123	0.0313	5.00	450	5.15	5.15	35.64
0.000986	0.0250	5.32	500	6.58	6.58	42.21
0.000790	0.0201	5.64	635	6.48	6.48	48.69
0.000615	0.0156	6.00		7.08	7.08	55.77
0.000435	0.0110	6.50		9.54	9.54	65.31
0.000308	0.00781	7.00		8.63	8.63	73.94
0.000197	0.00500	7.65		9.18	9.18	83.11
0.000077	0.00195	9.00		11.80	11.80	94.91
0.000038	0.000977	10.00		3.64	3.64	98.55
0.000019	0.000488	11.00		1.33	1.33	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.96	0.0050	0.128
10	3.51	0.0035	0.088
16	3.96	0.0025	0.064
25	4.47	0.0018	0.045
40	5.21	0.0011	0.027
50	5.71	0.0008	0.019
60	6.22	0.0005	0.013
75	7.07	0.0003	0.007
84	7.75	0.0002	0.005
90	8.44	0.0001	0.003
95	9.02	0.0001	0.002

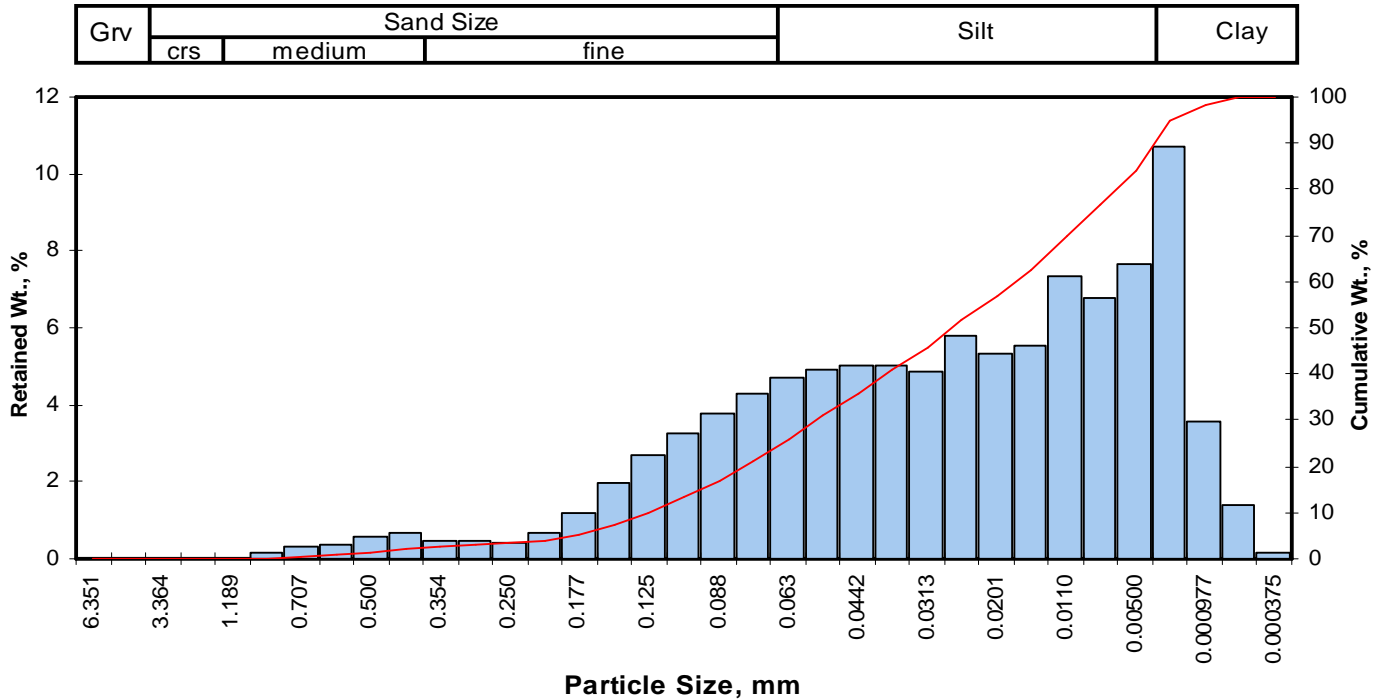
Measure	Trask	Inman	Folk-Ward
Median, phi	5.71	5.71	5.71
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.019	0.019	0.019
Mean, phi	5.25	5.85	5.80
Mean, in.	0.0010	0.0007	0.0007
Mean, mm	0.026	0.017	0.018
Sorting	2.464	1.895	1.865
Skewness	0.954	0.077	0.086
Kurtosis	0.221	0.599	0.955

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.40
Fine Sand	200	12.55
Silt	>0.005 mm	70.16
Clay	<0.005 mm	16.89
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI9-108.5-109.0
 Depth, ft: 108.5-108.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.18	0.18	0.18
0.0278	0.707	0.50	25	0.30	0.30	0.48
0.0234	0.595	0.75	30	0.37	0.37	0.85
0.0197	0.500	1.00	35	0.58	0.58	1.43
0.0166	0.420	1.25	40	0.65	0.65	2.08
0.0139	0.354	1.50	45	0.44	0.44	2.52
0.0117	0.297	1.75	50	0.46	0.46	2.98
0.0098	0.250	2.00	60	0.42	0.42	3.40
0.0083	0.210	2.25	70	0.68	0.68	4.08
0.0070	0.177	2.50	80	1.21	1.21	5.29
0.0059	0.149	2.75	100	1.98	1.98	7.27
0.0049	0.125	3.00	120	2.68	2.68	9.95
0.0041	0.105	3.25	140	3.24	3.24	13.19
0.0035	0.088	3.50	170	3.78	3.78	16.97
0.0029	0.074	3.75	200	4.30	4.30	21.27
0.0025	0.063	4.00	230	4.70	4.70	25.97
0.0021	0.053	4.25	270	4.92	4.92	30.89
0.00174	0.0442	4.50	325	5.04	5.04	35.93
0.00146	0.0372	4.75	400	5.00	5.00	40.93
0.00123	0.0313	5.00	450	4.85	4.85	45.78
0.000986	0.0250	5.32	500	5.79	5.79	51.57
0.000790	0.0201	5.64	635	5.32	5.32	56.89
0.000615	0.0156	6.00		5.54	5.54	62.43
0.000435	0.0110	6.50		7.33	7.33	69.76
0.000308	0.00781	7.00		6.80	6.80	76.56
0.000197	0.00500	7.65		7.64	7.64	84.20
0.000077	0.00195	9.00		10.70	10.70	94.90
0.000038	0.000977	10.00		3.57	3.57	98.47
0.000019	0.000488	11.00		1.40	1.40	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.44	0.0073	0.184
10	3.00	0.0049	0.125
16	3.44	0.0036	0.092
25	3.95	0.0026	0.065
40	4.70	0.0015	0.038
50	5.23	0.0010	0.027
60	5.84	0.0007	0.017
75	6.89	0.0003	0.008
84	7.63	0.0002	0.005
90	8.38	0.0001	0.003
95	9.03	0.0001	0.002

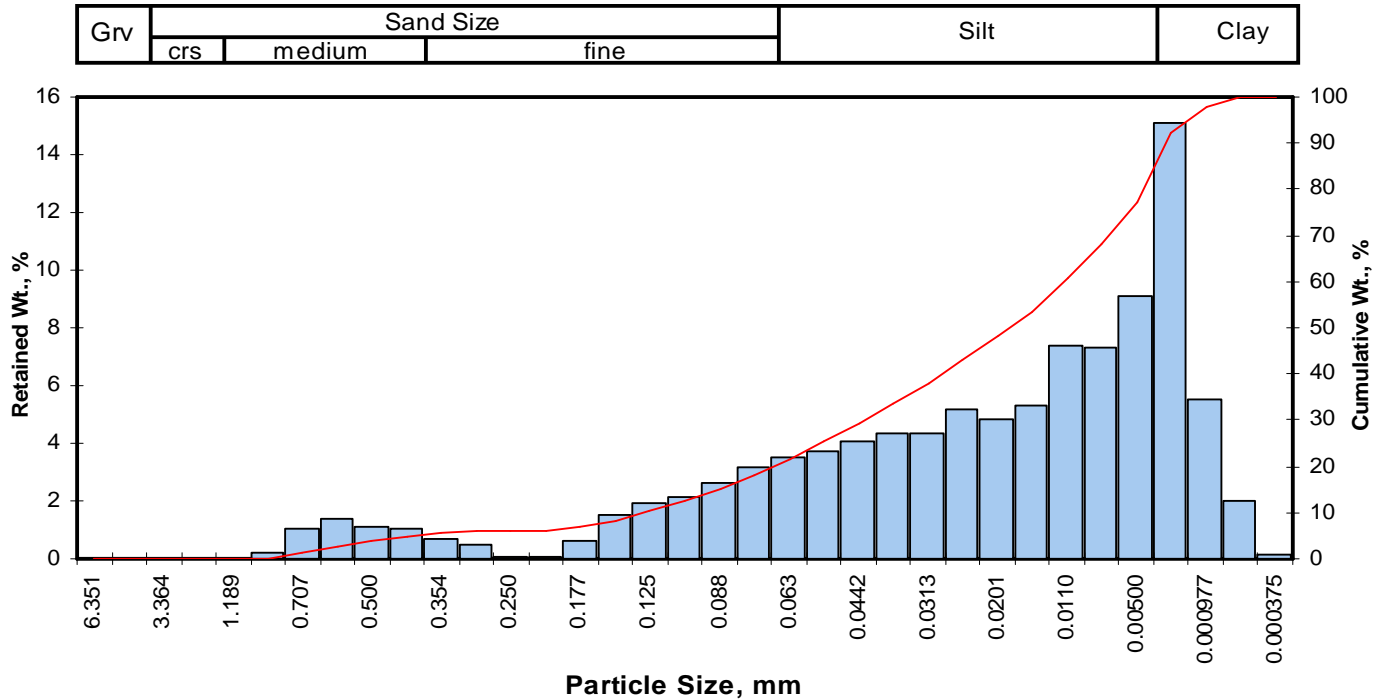
Measure	Trask	Inman	Folk-Ward
Median, phi	5.23	5.23	5.23
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.027	0.027	0.027
Mean, phi	4.77	5.53	5.43
Mean, in.	0.0014	0.0009	0.0009
Mean, mm	0.037	0.022	0.023
Sorting	2.767	2.096	2.046
Skewness	0.880	0.143	0.147
Kurtosis	0.231	0.571	0.919

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.08
Fine Sand	200	19.19
Silt	>0.005 mm	62.93
Clay	<0.005 mm	15.80
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI9-122.5-123.0
 Depth, ft: 122.5-122.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.21	0.21	0.21
0.0278	0.707	0.50	25	1.05	1.05	1.26
0.0234	0.595	0.75	30	1.40	1.40	2.66
0.0197	0.500	1.00	35	1.12	1.12	3.78
0.0166	0.420	1.25	40	1.01	1.01	4.79
0.0139	0.354	1.50	45	0.72	0.72	5.51
0.0117	0.297	1.75	50	0.49	0.49	6.00
0.0098	0.250	2.00	60	0.05	0.05	6.05
0.0083	0.210	2.25	70	0.08	0.08	6.13
0.0070	0.177	2.50	80	0.64	0.64	6.77
0.0059	0.149	2.75	100	1.53	1.53	8.30
0.0049	0.125	3.00	120	1.90	1.90	10.20
0.0041	0.105	3.25	140	2.14	2.14	12.34
0.0035	0.088	3.50	170	2.63	2.63	14.97
0.0029	0.074	3.75	200	3.19	3.19	18.16
0.0025	0.063	4.00	230	3.52	3.52	21.68
0.0021	0.053	4.25	270	3.70	3.70	25.38
0.00174	0.0442	4.50	325	4.04	4.04	29.42
0.00146	0.0372	4.75	400	4.32	4.32	33.74
0.00123	0.0313	5.00	450	4.33	4.33	38.07
0.000986	0.0250	5.32	500	5.17	5.17	43.24
0.000790	0.0201	5.64	635	4.85	4.85	48.09
0.000615	0.0156	6.00		5.32	5.32	53.41
0.000435	0.0110	6.50		7.38	7.38	60.78
0.000308	0.00781	7.00		7.32	7.32	68.10
0.000197	0.00500	7.65		9.07	9.07	77.17
0.000077	0.00195	9.00		15.10	15.10	92.27
0.000038	0.000977	10.00		5.55	5.55	97.82
0.000019	0.000488	11.00		2.01	2.01	99.83
0.000015	0.000375	11.38		0.17	0.17	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.32	0.0157	0.400
10	2.97	0.0050	0.127
16	3.58	0.0033	0.084
25	4.22	0.0021	0.053
40	5.12	0.0011	0.029
50	5.77	0.0007	0.018
60	6.45	0.0005	0.011
75	7.49	0.0002	0.006
84	8.26	0.0001	0.003
90	8.80	0.0001	0.002
95	9.49	0.0001	0.001

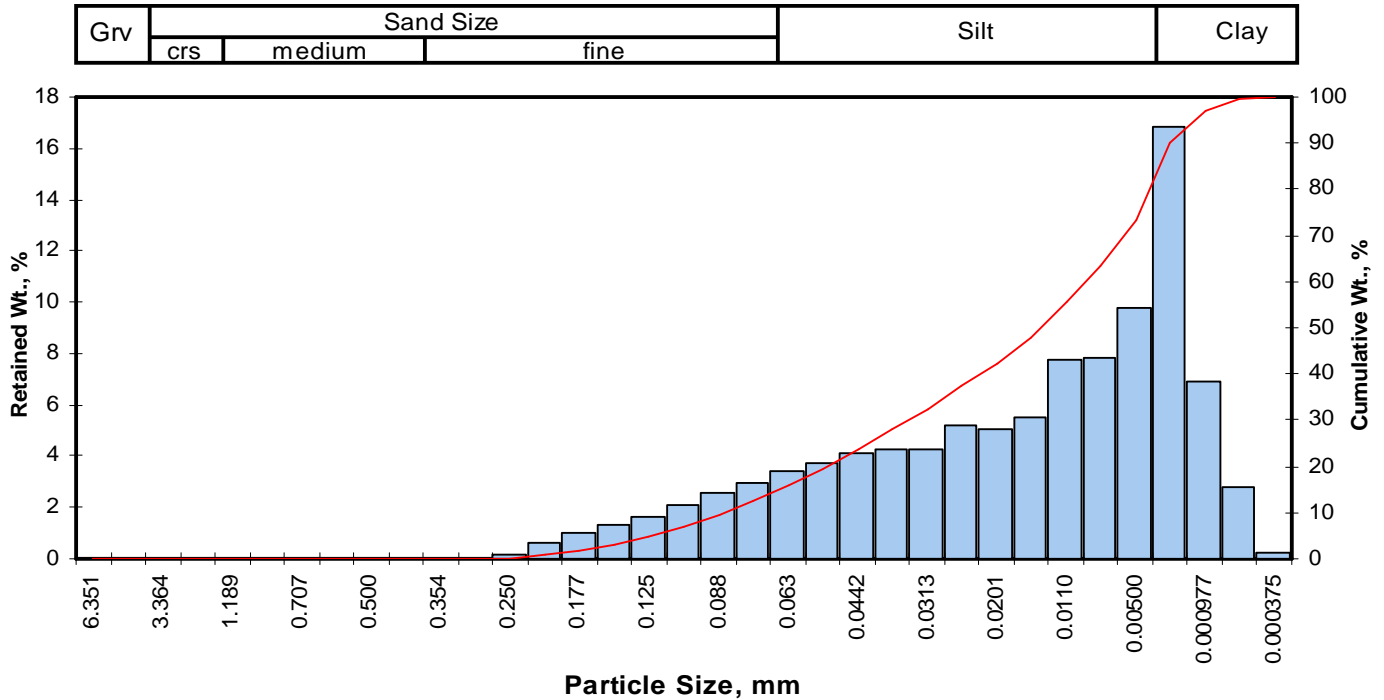
Measure	Trask	Inman	Folk-Ward
Median, phi	5.77	5.77	5.77
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.018	0.018	0.018
Mean, phi	5.08	5.92	5.87
Mean, in.	0.0012	0.0007	0.0007
Mean, mm	0.030	0.017	0.017
Sorting	3.102	2.338	2.407
Skewness	0.941	0.064	-0.012
Kurtosis	0.192	0.747	1.025

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	4.79
Fine Sand	200	13.37
Silt	>0.005 mm	59.01
Clay	<0.005 mm	22.83
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI9-128.0-128.5
 Depth, ft: 128.0-128.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.01	0.01	0.01
0.0098	0.250	2.00	60	0.16	0.16	0.17
0.0083	0.210	2.25	70	0.61	0.61	0.78
0.0070	0.177	2.50	80	1.02	1.02	1.80
0.0059	0.149	2.75	100	1.29	1.29	3.09
0.0049	0.125	3.00	120	1.64	1.64	4.73
0.0041	0.105	3.25	140	2.12	2.12	6.85
0.0035	0.088	3.50	170	2.58	2.58	9.43
0.0029	0.074	3.75	200	2.98	2.98	12.41
0.0025	0.063	4.00	230	3.38	3.38	15.79
0.0021	0.053	4.25	270	3.76	3.76	19.55
0.00174	0.0442	4.50	325	4.10	4.10	23.65
0.00146	0.0372	4.75	400	4.25	4.25	27.90
0.00123	0.0313	5.00	450	4.23	4.23	32.13
0.000986	0.0250	5.32	500	5.19	5.19	37.32
0.000790	0.0201	5.64	635	5.01	5.01	42.33
0.000615	0.0156	6.00		5.52	5.52	47.84
0.000435	0.0110	6.50		7.79	7.79	55.63
0.000308	0.00781	7.00		7.83	7.83	63.46
0.000197	0.00500	7.65		9.76	9.76	73.22
0.000077	0.00195	9.00		16.80	16.80	90.02
0.000038	0.000977	10.00		6.90	6.90	96.92
0.000019	0.000488	11.00		2.82	2.82	99.74
0.000015	0.000375	11.38		0.26	0.26	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.03	0.0048	0.122
10	3.55	0.0034	0.085
16	4.01	0.0024	0.062
25	4.58	0.0016	0.042
40	5.49	0.0009	0.022
50	6.14	0.0006	0.014
60	6.78	0.0004	0.009
75	7.79	0.0002	0.005
84	8.51	0.0001	0.003
90	9.00	0.0001	0.002
95	9.72	0.0000	0.001

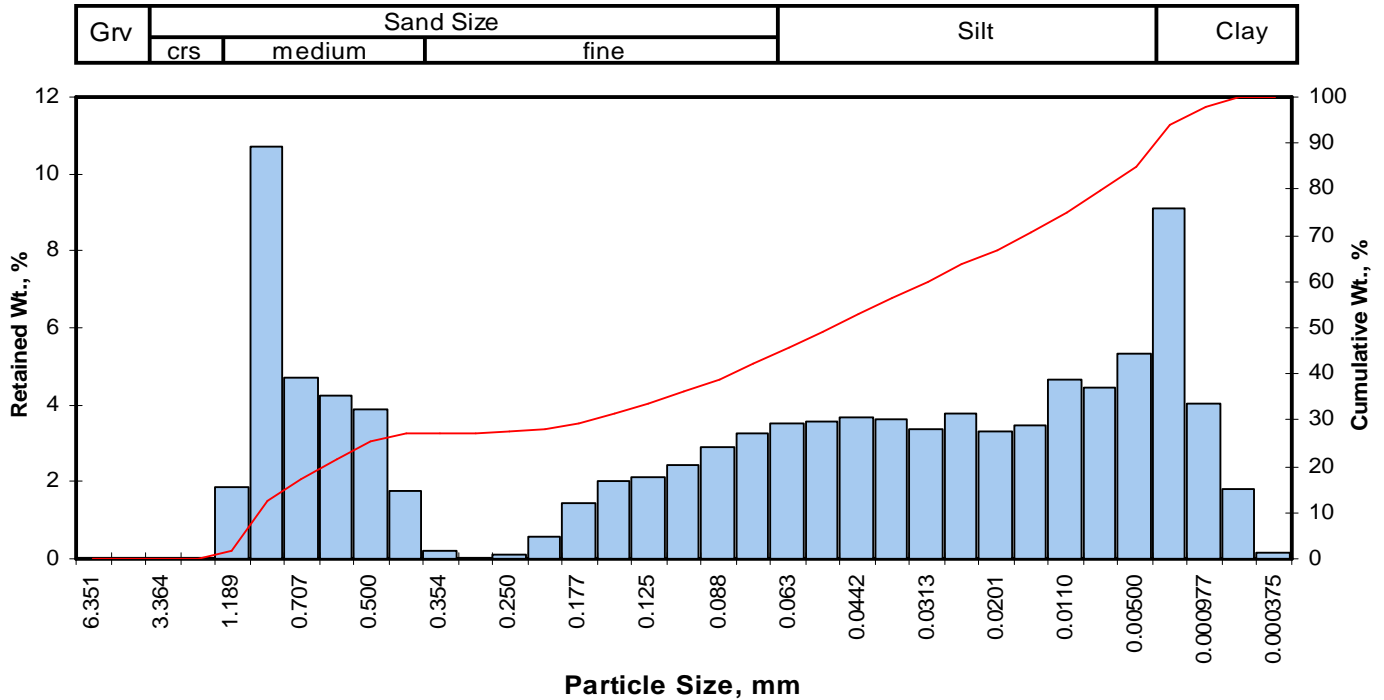
Measure	Trask	Inman	Folk-Ward
Median, phi	6.14	6.14	6.14
Median, in.	0.0006	0.0006	0.0006
Median, mm	0.014	0.014	0.014
Mean, phi	5.43	6.26	6.22
Mean, in.	0.0009	0.0005	0.0005
Mean, mm	0.023	0.013	0.013
Sorting	3.041	2.250	2.139
Skewness	0.969	0.056	0.064
Kurtosis	0.223	0.487	0.854

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	12.41
Silt	>0.005 mm	60.81
Clay	<0.005 mm	26.78
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-R110-102.5-103.0
 Depth, ft: 102.5-102.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.84	1.84	1.84
0.0331	0.841	0.25	20	10.70	10.71	12.55
0.0278	0.707	0.50	25	4.68	4.68	17.23
0.0234	0.595	0.75	30	4.23	4.23	21.47
0.0197	0.500	1.00	35	3.87	3.87	25.34
0.0166	0.420	1.25	40	1.78	1.78	27.12
0.0139	0.354	1.50	45	0.23	0.23	27.35
0.0117	0.297	1.75	50	0.01	0.01	27.36
0.0098	0.250	2.00	60	0.10	0.10	27.46
0.0083	0.210	2.25	70	0.59	0.59	28.05
0.0070	0.177	2.50	80	1.45	1.45	29.50
0.0059	0.149	2.75	100	1.99	1.99	31.49
0.0049	0.125	3.00	120	2.12	2.12	33.61
0.0041	0.105	3.25	140	2.42	2.42	36.03
0.0035	0.088	3.50	170	2.88	2.88	38.92
0.0029	0.074	3.75	200	3.26	3.26	42.18
0.0025	0.063	4.00	230	3.49	3.49	45.67
0.0021	0.053	4.25	270	3.58	3.58	49.25
0.00174	0.0442	4.50	325	3.65	3.65	52.91
0.00146	0.0372	4.75	400	3.60	3.60	56.51
0.00123	0.0313	5.00	450	3.37	3.37	59.88
0.000986	0.0250	5.32	500	3.79	3.79	63.67
0.000790	0.0201	5.64	635	3.33	3.33	67.01
0.000615	0.0156	6.00		3.47	3.47	70.48
0.000435	0.0110	6.50		4.64	4.64	75.12
0.000308	0.00781	7.00		4.43	4.43	79.56
0.000197	0.00500	7.65		5.33	5.33	84.89
0.000077	0.00195	9.00		9.10	9.11	94.00
0.000038	0.000977	10.00		4.03	4.03	98.03
0.000019	0.000488	11.00		1.80	1.80	99.83
0.000015	0.000375	11.38		0.17	0.17	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.10	0.0423	1.074
10	0.13	0.0360	0.913
16	0.43	0.0291	0.740
25	0.98	0.0200	0.508
40	3.58	0.0033	0.083
50	4.30	0.0020	0.051
60	5.01	0.0012	0.031
75	6.49	0.0004	0.011
84	7.54	0.0002	0.005
90	8.41	0.0001	0.003
95	9.25	0.0001	0.002

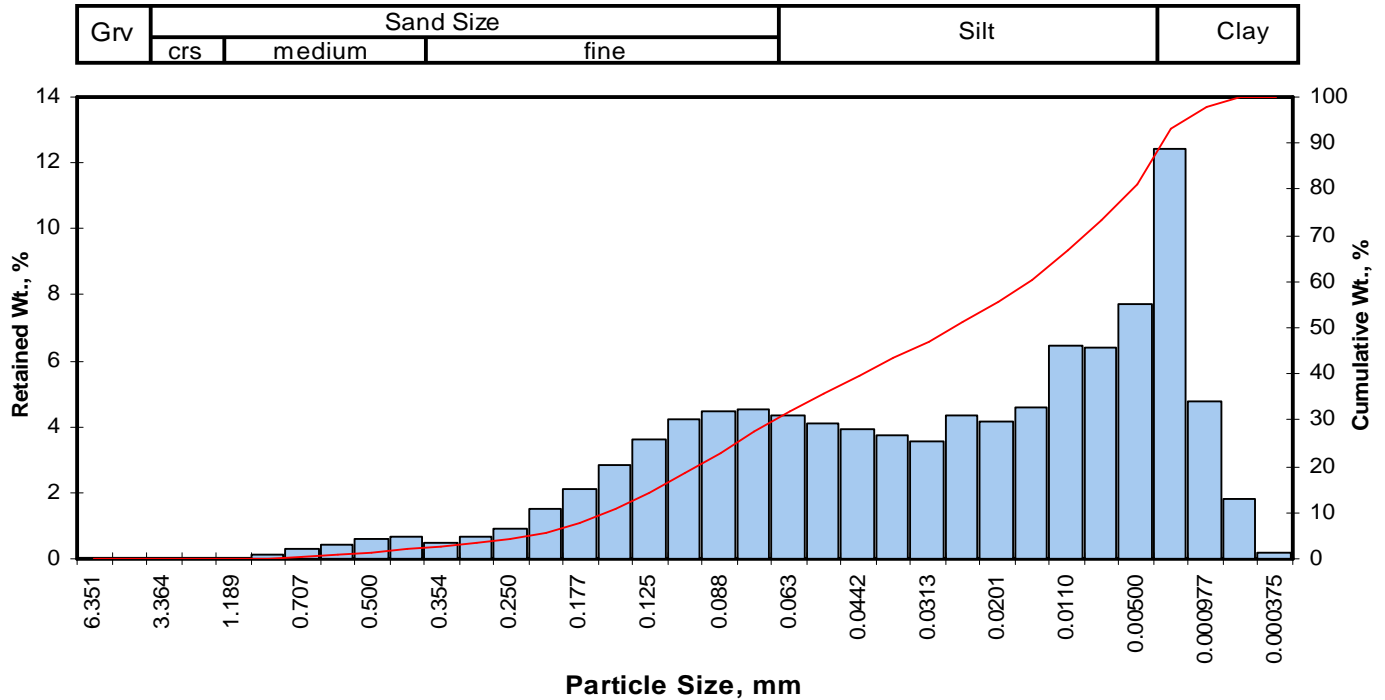
Measure	Trask	Inman	Folk-Ward
Median, phi	4.30	4.30	4.30
Median, in.	0.0020	0.0020	0.0020
Median, mm	0.051	0.051	0.051
Mean, phi	1.95	3.99	4.09
Mean, in.	0.0102	0.0025	0.0023
Mean, mm	0.259	0.063	0.059
Sorting	6.748	3.552	3.193
Skewness	1.483	-0.089	-0.015
Kurtosis	0.273	0.317	0.696

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	27.12
Fine Sand	200	15.06
Silt	>0.005 mm	42.71
Clay	<0.005 mm	15.11
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI10-112.3-112.6
 Depth, ft: 112.3-112.6



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.12	0.12	0.12
0.0278	0.707	0.50	25	0.29	0.29	0.41
0.0234	0.595	0.75	30	0.44	0.44	0.85
0.0197	0.500	1.00	35	0.63	0.63	1.48
0.0166	0.420	1.25	40	0.65	0.65	2.13
0.0139	0.354	1.50	45	0.46	0.46	2.59
0.0117	0.297	1.75	50	0.66	0.66	3.25
0.0098	0.250	2.00	60	0.93	0.93	4.18
0.0083	0.210	2.25	70	1.50	1.50	5.68
0.0070	0.177	2.50	80	2.12	2.12	7.80
0.0059	0.149	2.75	100	2.85	2.85	10.65
0.0049	0.125	3.00	120	3.61	3.61	14.26
0.0041	0.105	3.25	140	4.20	4.20	18.47
0.0035	0.088	3.50	170	4.48	4.48	22.95
0.0029	0.074	3.75	200	4.50	4.50	27.45
0.0025	0.063	4.00	230	4.36	4.36	31.81
0.0021	0.053	4.25	270	4.12	4.12	35.93
0.00174	0.0442	4.50	325	3.92	3.92	39.85
0.00146	0.0372	4.75	400	3.73	3.73	43.58
0.00123	0.0313	5.00	450	3.57	3.57	47.15
0.000986	0.0250	5.32	500	4.32	4.32	51.48
0.000790	0.0201	5.64	635	4.16	4.16	55.64
0.000615	0.0156	6.00		4.60	4.60	60.24
0.000435	0.0110	6.50		6.48	6.48	66.72
0.000308	0.00781	7.00		6.41	6.41	73.13
0.000197	0.00500	7.65		7.72	7.72	80.85
0.000077	0.00195	9.00		12.40	12.40	93.26
0.000038	0.000977	10.00		4.75	4.75	98.01
0.000019	0.000488	11.00		1.83	1.83	99.84
0.000015	0.000375	11.38		0.16	0.16	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.14	0.0090	0.227
10	2.69	0.0061	0.155
16	3.10	0.0046	0.116
25	3.61	0.0032	0.082
40	4.51	0.0017	0.044
50	5.21	0.0011	0.027
60	5.98	0.0006	0.016
75	7.16	0.0003	0.007
84	7.99	0.0002	0.004
90	8.64	0.0001	0.002
95	9.37	0.0001	0.002

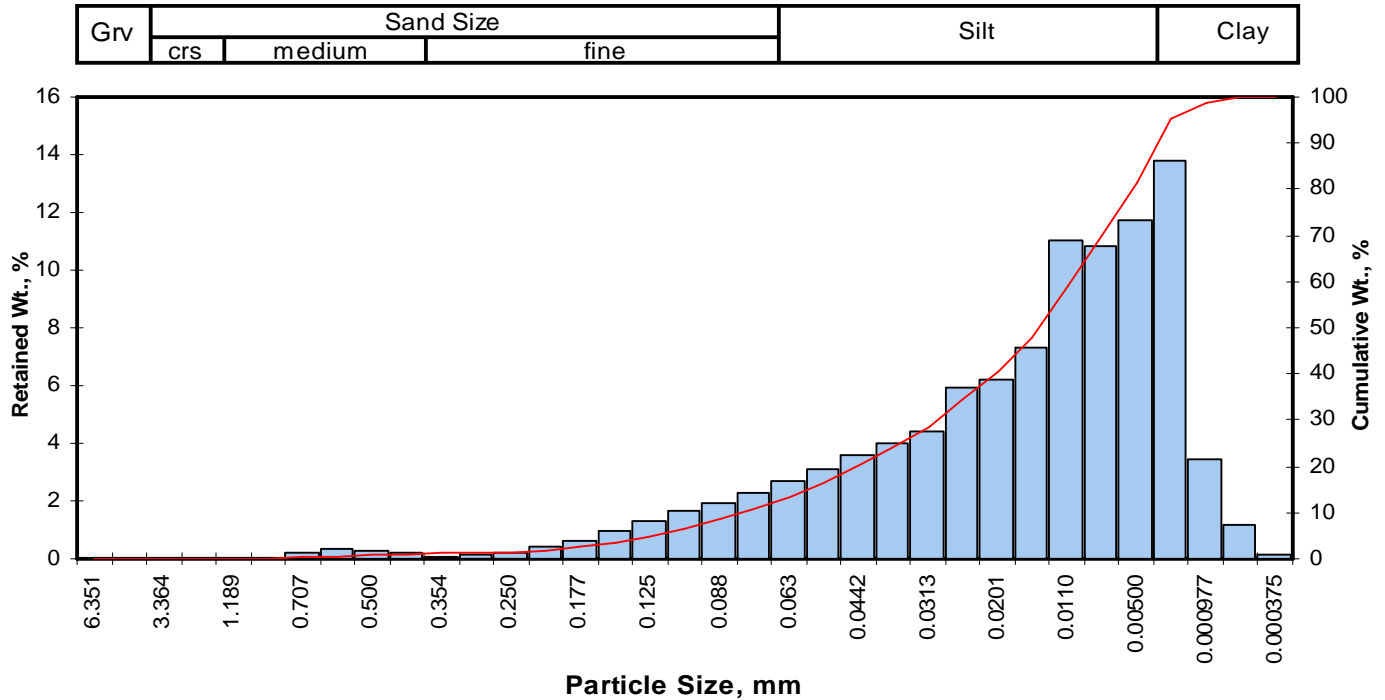
Measure	Trask	Inman	Folk-Ward
Median, phi	5.21	5.21	5.21
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	4.50	5.55	5.43
Mean, in.	0.0017	0.0008	0.0009
Mean, mm	0.044	0.021	0.023
Sorting	3.413	2.443	2.317
Skewness	0.886	0.137	0.143
Kurtosis	0.245	0.480	0.837

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.13
Fine Sand	200	25.32
Silt	>0.005 mm	53.41
Clay	<0.005 mm	19.15
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI10-118.4-118.8
 Depth, ft: 118.4-118.6



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.02	0.02	0.02
0.0278	0.707	0.50	25	0.20	0.20	0.22
0.0234	0.595	0.75	30	0.37	0.37	0.59
0.0197	0.500	1.00	35	0.26	0.26	0.85
0.0166	0.420	1.25	40	0.19	0.19	1.04
0.0139	0.354	1.50	45	0.10	0.10	1.14
0.0117	0.297	1.75	50	0.12	0.12	1.26
0.0098	0.250	2.00	60	0.19	0.19	1.45
0.0083	0.210	2.25	70	0.40	0.40	1.85
0.0070	0.177	2.50	80	0.65	0.65	2.50
0.0059	0.149	2.75	100	0.97	0.97	3.47
0.0049	0.125	3.00	120	1.33	1.33	4.80
0.0041	0.105	3.25	140	1.67	1.67	6.47
0.0035	0.088	3.50	170	1.96	1.96	8.43
0.0029	0.074	3.75	200	2.29	2.29	10.72
0.0025	0.063	4.00	230	2.67	2.67	13.39
0.0021	0.053	4.25	270	3.09	3.09	16.48
0.00174	0.0442	4.50	325	3.59	3.59	20.07
0.00146	0.0372	4.75	400	4.03	4.03	24.10
0.00123	0.0313	5.00	450	4.39	4.39	28.49
0.000986	0.0250	5.32	500	5.92	5.92	34.41
0.000790	0.0201	5.64	635	6.22	6.22	40.63
0.000615	0.0156	6.00		7.33	7.33	47.96
0.000435	0.0110	6.50		11.00	11.00	58.96
0.000308	0.00781	7.00		10.80	10.80	69.77
0.000197	0.00500	7.65		11.70	11.70	81.47
0.000077	0.00195	9.00		13.80	13.80	95.27
0.000038	0.000977	10.00		3.44	3.44	98.71
0.000019	0.000488	11.00		1.18	1.18	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.03	0.0048	0.122
10	3.67	0.0031	0.078
16	4.21	0.0021	0.054
25	4.80	0.0014	0.036
40	5.61	0.0008	0.021
50	6.09	0.0006	0.015
60	6.55	0.0004	0.011
75	7.29	0.0003	0.006
84	7.89	0.0002	0.004
90	8.48	0.0001	0.003
95	8.97	0.0001	0.002

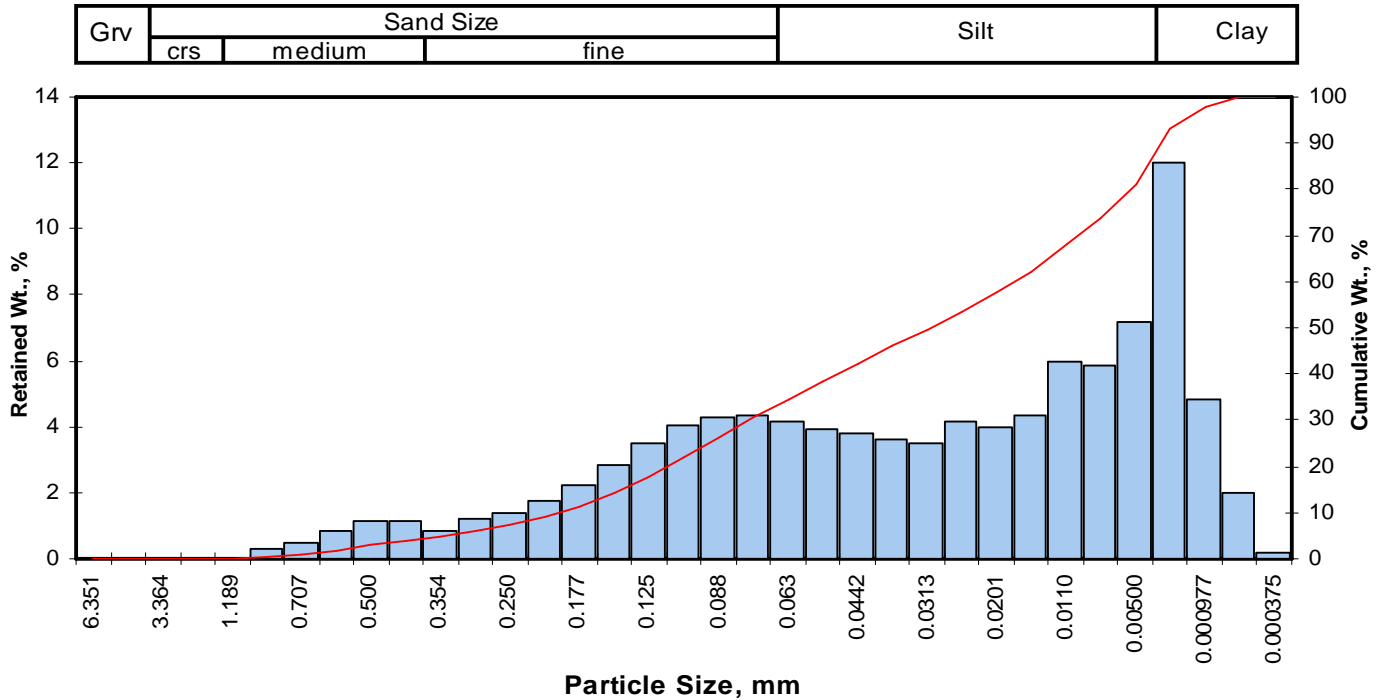
Measure	Trask	Inman	Folk-Ward
Median, phi	6.09	6.09	6.09
Median, in.	0.0006	0.0006	0.0006
Median, mm	0.015	0.015	0.015
Mean, phi	5.56	6.05	6.07
Mean, in.	0.0008	0.0006	0.0006
Mean, mm	0.021	0.015	0.015
Sorting	2.368	1.841	1.821
Skewness	1.034	-0.022	-0.026
Kurtosis	0.195	0.614	0.979

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.04
Fine Sand	200	9.68
Silt	>0.005 mm	70.75
Clay	<0.005 mm	18.53
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-41.0-41.5
 Depth, ft: 41.0-41.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.29	0.29	0.29
0.0278	0.707	0.50	25	0.51	0.51	0.80
0.0234	0.595	0.75	30	0.87	0.87	1.67
0.0197	0.500	1.00	35	1.17	1.17	2.84
0.0166	0.420	1.25	40	1.14	1.14	3.98
0.0139	0.354	1.50	45	0.85	0.85	4.83
0.0117	0.297	1.75	50	1.23	1.23	6.06
0.0098	0.250	2.00	60	1.36	1.36	7.42
0.0083	0.210	2.25	70	1.76	1.76	9.18
0.0070	0.177	2.50	80	2.22	2.22	11.40
0.0059	0.149	2.75	100	2.85	2.85	14.25
0.0049	0.125	3.00	120	3.52	3.52	17.77
0.0041	0.105	3.25	140	4.03	4.03	21.80
0.0035	0.088	3.50	170	4.29	4.29	26.09
0.0029	0.074	3.75	200	4.32	4.32	30.41
0.0025	0.063	4.00	230	4.18	4.18	34.58
0.0021	0.053	4.25	270	3.95	3.95	38.53
0.00174	0.0442	4.50	325	3.78	3.78	42.31
0.00146	0.0372	4.75	400	3.64	3.64	45.95
0.00123	0.0313	5.00	450	3.49	3.49	49.44
0.000986	0.0250	5.32	500	4.19	4.19	53.63
0.000790	0.0201	5.64	635	3.98	3.98	57.61
0.000615	0.0156	6.00		4.32	4.32	61.93
0.000435	0.0110	6.50		5.98	5.98	67.91
0.000308	0.00781	7.00		5.88	5.88	73.79
0.000197	0.00500	7.65		7.19	7.19	80.97
0.000077	0.00195	9.00		12.00	12.00	92.97
0.000038	0.000977	10.00		4.83	4.83	97.80
0.000019	0.000488	11.00		2.01	2.01	99.81
0.000015	0.000375	11.38		0.19	0.19	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.53	0.0136	0.345
10	2.34	0.0078	0.197
16	2.87	0.0054	0.136
25	3.44	0.0036	0.092
40	4.35	0.0019	0.049
50	5.04	0.0012	0.030
60	5.84	0.0007	0.017
75	7.11	0.0003	0.007
84	7.99	0.0002	0.004
90	8.66	0.0001	0.002
95	9.42	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.04	5.04	5.04
Median, in.	0.0012	0.0012	0.0012
Median, mm	0.030	0.030	0.030
Mean, phi	4.33	5.43	5.30
Mean, in.	0.0020	0.0009	0.0010
Mean, mm	0.050	0.023	0.025
Sorting	3.571	2.556	2.473
Skewness	0.853	0.152	0.131
Kurtosis	0.219	0.542	0.880

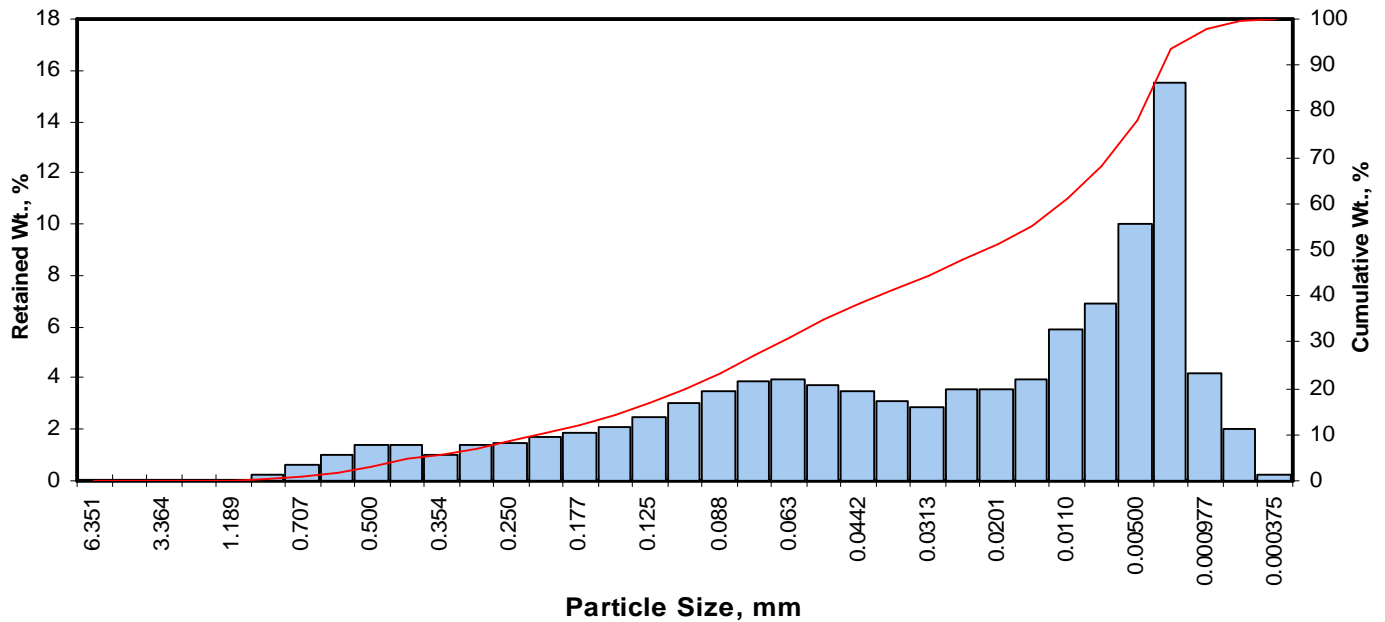
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.98
Fine Sand	200	26.42
Silt	>0.005 mm	50.57
Clay	<0.005 mm	19.03
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-48.5-49.0
 Depth, ft: 48.5-48.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.22	0.22	0.22
0.0278	0.707	0.50	25	0.62	0.62	0.84
0.0234	0.595	0.75	30	1.02	1.02	1.86
0.0197	0.500	1.00	35	1.36	1.36	3.22
0.0166	0.420	1.25	40	1.37	1.37	4.59
0.0139	0.354	1.50	45	1.01	1.01	5.60
0.0117	0.297	1.75	50	1.39	1.39	6.99
0.0098	0.250	2.00	60	1.46	1.46	8.45
0.0083	0.210	2.25	70	1.73	1.73	10.18
0.0070	0.177	2.50	80	1.86	1.86	12.04
0.0059	0.149	2.75	100	2.07	2.07	14.11
0.0049	0.125	3.00	120	2.49	2.49	16.60
0.0041	0.105	3.25	140	3.02	3.02	19.63
0.0035	0.088	3.50	170	3.52	3.52	23.15
0.0029	0.074	3.75	200	3.86	3.86	27.01
0.0025	0.063	4.00	230	3.94	3.94	30.95
0.0021	0.053	4.25	270	3.76	3.76	34.71
0.00174	0.0442	4.50	325	3.46	3.46	38.17
0.00146	0.0372	4.75	400	3.13	3.13	41.30
0.00123	0.0313	5.00	450	2.89	2.89	44.19
0.000986	0.0250	5.32	500	3.53	3.53	47.72
0.000790	0.0201	5.64	635	3.55	3.55	51.28
0.000615	0.0156	6.00		3.99	3.99	55.27
0.000435	0.0110	6.50		5.90	5.90	61.17
0.000308	0.00781	7.00		6.92	6.92	68.09
0.000197	0.00500	7.65		9.97	9.97	78.06
0.000077	0.00195	9.00		15.50	15.50	93.57
0.000038	0.000977	10.00		4.21	4.21	97.78
0.000019	0.000488	11.00		1.99	1.99	99.77
0.000015	0.000375	11.38		0.23	0.23	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.35	0.0154	0.392
10	2.22	0.0084	0.214
16	2.94	0.0051	0.130
25	3.62	0.0032	0.081
40	4.65	0.0016	0.040
50	5.53	0.0009	0.022
60	6.40	0.0005	0.012
75	7.45	0.0002	0.006
84	8.16	0.0001	0.003
90	8.69	0.0001	0.002
95	9.34	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.53	5.53	5.53
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.022	0.022	0.022
Mean, phi	4.52	5.55	5.54
Mean, in.	0.0017	0.0008	0.0008
Mean, mm	0.044	0.021	0.021
Sorting	3.767	2.612	2.517
Skewness	0.994	0.010	-0.017
Kurtosis	0.179	0.529	0.856

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	4.59
Fine Sand	200	22.42
Silt	>0.005 mm	51.06
Clay	<0.005 mm	21.94
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

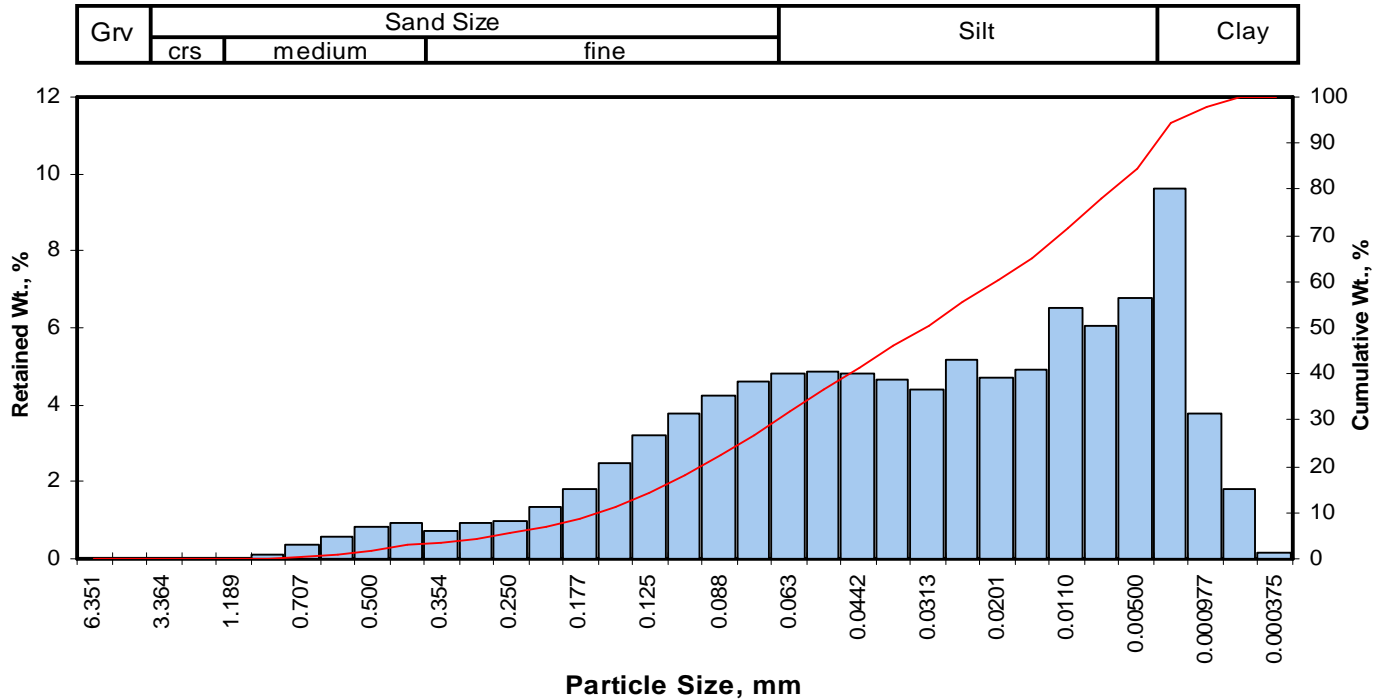
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3B

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI20-55.5-55.8	55.5-55.8	Silt	0.032	0.00	0.00	2.81	24.08	57.70	15.41	73.11
PT-RI20-63.0-63.5	63.0-63.2	Silt	0.011	0.00	0.00	0.00	11.12	57.24	31.64	88.88
PT-RI20-73.0-73.3	73.0-73.3	Silt	0.038	0.00	0.00	0.81	28.28	54.34	16.57	70.90
PT-RI20-81.5-82.0	81.5-81.7	Silt	0.021	0.00	0.00	1.62	17.37	64.77	16.24	81.01
PT-RI20-108.5-109.0	108.5-108.7	Silt	0.014	0.00	0.00	0.00	11.38	60.47	28.15	88.62
PT-RI20-112.5-113.0	112.5-112.7	Silt	0.013	0.00	0.00	0.01	11.78	62.92	25.29	88.21
PT-RI20-117.5-118.0	117.5-117.7	Silt	0.034	0.00	0.00	2.48	24.84	60.77	11.91	72.68
PT-RI20-123.5-124.0	123.8-124.0	Silt	0.026	0.00	0.00	5.50	26.66	40.98	26.86	67.84
PT-RI20-128.0-128.5	128.0-128.5	Silt	0.015	0.00	0.00	0.00	23.62	49.80	26.58	76.38

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-55.5-55.8
 Depth, ft: 55.5-55.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.12	0.12	0.12
0.0278	0.707	0.50	25	0.34	0.34	0.46
0.0234	0.595	0.75	30	0.57	0.57	1.03
0.0197	0.500	1.00	35	0.84	0.84	1.87
0.0166	0.420	1.25	40	0.94	0.94	2.81
0.0139	0.354	1.50	45	0.72	0.72	3.53
0.0117	0.297	1.75	50	0.94	0.94	4.47
0.0098	0.250	2.00	60	0.97	0.97	5.44
0.0083	0.210	2.25	70	1.32	1.32	6.76
0.0070	0.177	2.50	80	1.81	1.81	8.57
0.0059	0.149	2.75	100	2.48	2.48	11.05
0.0049	0.125	3.00	120	3.19	3.19	14.24
0.0041	0.105	3.25	140	3.80	3.80	18.04
0.0035	0.088	3.50	170	4.26	4.26	22.30
0.0029	0.074	3.75	200	4.59	4.59	26.89
0.0025	0.063	4.00	230	4.79	4.79	31.68
0.0021	0.053	4.25	270	4.84	4.84	36.52
0.00174	0.0442	4.50	325	4.81	4.81	41.33
0.00146	0.0372	4.75	400	4.65	4.65	45.98
0.00123	0.0313	5.00	450	4.41	4.41	50.40
0.000986	0.0250	5.32	500	5.18	5.18	55.58
0.000790	0.0201	5.64	635	4.72	4.72	60.30
0.000615	0.0156	6.00		4.92	4.92	65.22
0.000435	0.0110	6.50		6.53	6.53	71.75
0.000308	0.00781	7.00		6.07	6.07	77.82
0.000197	0.00500	7.65		6.77	6.77	84.59
0.000077	0.00195	9.00		9.63	9.63	94.22
0.000038	0.000977	10.00		3.79	3.79	98.01
0.000019	0.000488	11.00		1.81	1.81	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.89	0.0106	0.270
10	2.64	0.0063	0.160
16	3.12	0.0045	0.115
25	3.65	0.0031	0.080
40	4.43	0.0018	0.046
50	4.98	0.0012	0.032
60	5.62	0.0008	0.020
75	6.77	0.0004	0.009
84	7.59	0.0002	0.005
90	8.41	0.0001	0.003
95	9.21	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.98	4.98	4.98
Median, in.	0.0012	0.0012	0.0012
Median, mm	0.032	0.032	0.032
Mean, phi	4.49	5.35	5.23
Mean, in.	0.0018	0.0010	0.0011
Mean, mm	0.045	0.024	0.027
Sorting	2.950	2.237	2.227
Skewness	0.853	0.168	0.161
Kurtosis	0.225	0.636	0.961

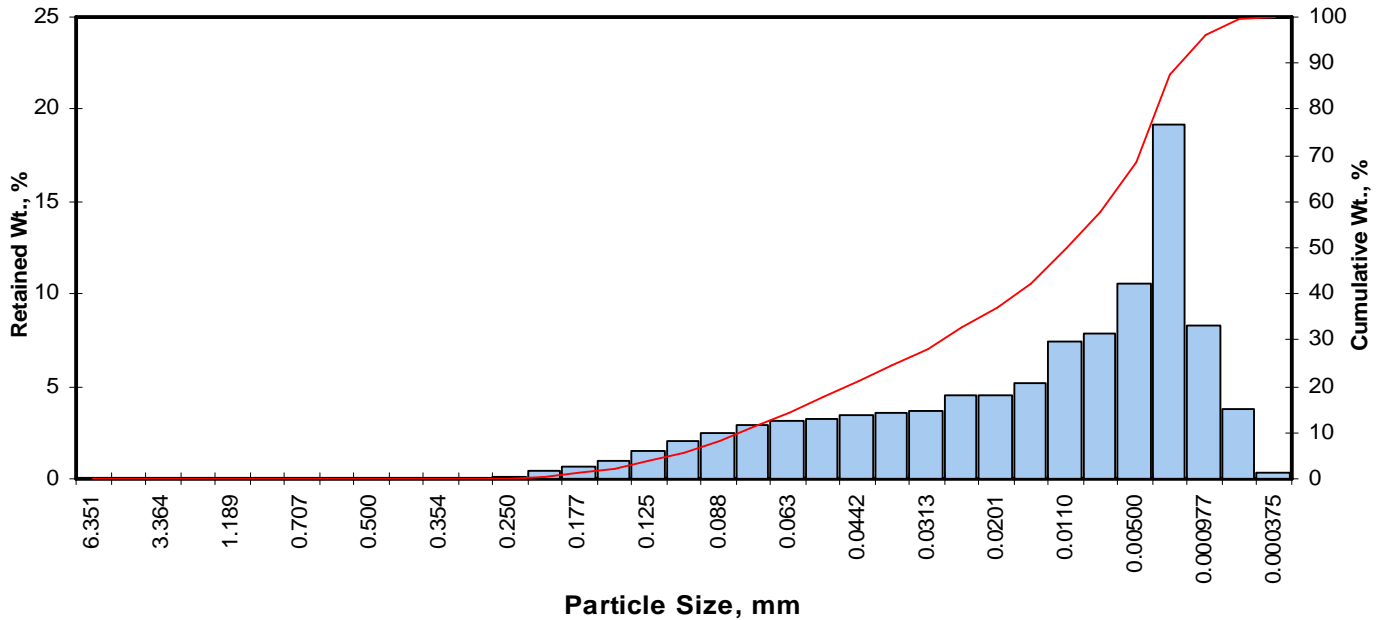
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.81
Fine Sand	200	24.08
Silt	>0.005 mm	57.70
Clay	<0.005 mm	15.41
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-63.0-63.5
 Depth, ft: 63.0-63.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.01	0.01	0.01
0.0098	0.250	2.00	60	0.12	0.12	0.13
0.0083	0.210	2.25	70	0.39	0.39	0.52
0.0070	0.177	2.50	80	0.68	0.68	1.20
0.0059	0.149	2.75	100	1.01	1.01	2.21
0.0049	0.125	3.00	120	1.47	1.47	3.68
0.0041	0.105	3.25	140	2.03	2.03	5.71
0.0035	0.088	3.50	170	2.52	2.52	8.23
0.0029	0.074	3.75	200	2.89	2.89	11.12
0.0025	0.063	4.00	230	3.13	3.13	14.25
0.0021	0.053	4.25	270	3.28	3.28	17.53
0.00174	0.0442	4.50	325	3.45	3.45	20.98
0.00146	0.0372	4.75	400	3.57	3.57	24.55
0.00123	0.0313	5.00	450	3.61	3.61	28.16
0.000986	0.0250	5.32	500	4.56	4.56	32.72
0.000790	0.0201	5.64	635	4.56	4.56	37.28
0.000615	0.0156	6.00		5.14	5.14	42.42
0.000435	0.0110	6.50		7.43	7.43	49.85
0.000308	0.00781	7.00		7.91	7.91	57.76
0.000197	0.00500	7.65		10.60	10.60	68.36
0.000077	0.00195	9.00		19.20	19.20	87.56
0.000038	0.000977	10.00		8.35	8.35	95.91
0.000019	0.000488	11.00		3.73	3.73	99.64
0.000015	0.000375	11.38		0.36	0.36	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.16	0.0044	0.112
10	3.65	0.0031	0.079
16	4.13	0.0022	0.057
25	4.78	0.0014	0.036
40	5.83	0.0007	0.018
50	6.51	0.0004	0.011
60	7.14	0.0003	0.007
75	8.11	0.0001	0.004
84	8.75	0.0001	0.002
90	9.29	0.0001	0.002
95	9.89	0.0000	0.001

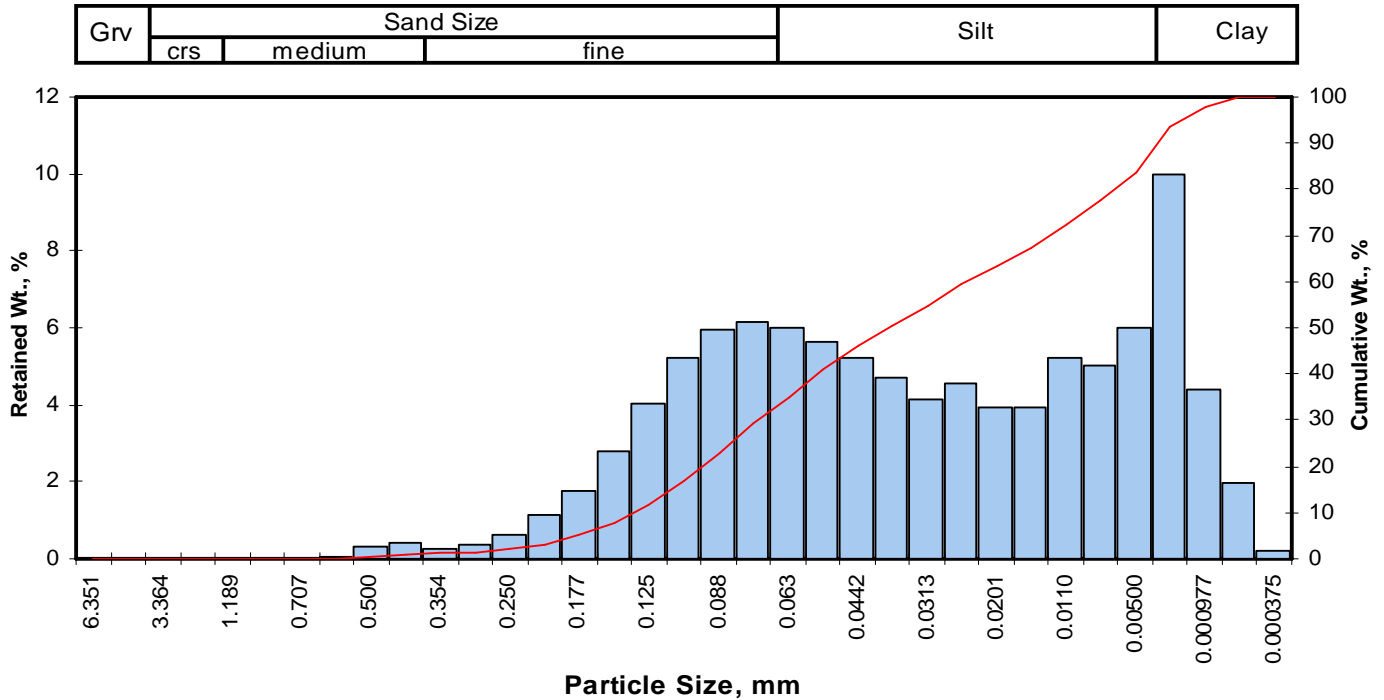
Measure	Trask	Inman	Folk-Ward
Median, phi	6.51	6.51	6.51
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.011	0.011	0.011
Mean, phi	5.64	6.44	6.46
Mean, in.	0.0008	0.0005	0.0004
Mean, mm	0.020	0.012	0.011
Sorting	3.174	2.308	2.173
Skewness	1.044	-0.030	-0.012
Kurtosis	0.210	0.458	0.828

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	11.12
Silt	>0.005 mm	57.24
Clay	<0.005 mm	31.64
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-73.0-73.3
 Depth, ft: 73.0-73.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.07	0.07	0.07
0.0197	0.500	1.00	35	0.32	0.32	0.39
0.0166	0.420	1.25	40	0.42	0.42	0.81
0.0139	0.354	1.50	45	0.27	0.27	1.08
0.0117	0.297	1.75	50	0.37	0.37	1.45
0.0098	0.250	2.00	60	0.61	0.61	2.06
0.0083	0.210	2.25	70	1.13	1.13	3.19
0.0070	0.177	2.50	80	1.78	1.78	4.97
0.0059	0.149	2.75	100	2.78	2.78	7.76
0.0049	0.125	3.00	120	4.05	4.05	11.81
0.0041	0.105	3.25	140	5.21	5.21	17.02
0.0035	0.088	3.50	170	5.92	5.92	22.94
0.0029	0.074	3.75	200	6.15	6.15	29.10
0.0025	0.063	4.00	230	6.01	6.01	35.11
0.0021	0.053	4.25	270	5.63	5.63	40.74
0.00174	0.0442	4.50	325	5.20	5.20	45.94
0.00146	0.0372	4.75	400	4.69	4.69	50.64
0.00123	0.0313	5.00	450	4.16	4.16	54.80
0.000986	0.0250	5.32	500	4.56	4.56	59.36
0.000790	0.0201	5.64	635	3.91	3.91	63.27
0.000615	0.0156	6.00		3.95	3.95	67.22
0.000435	0.0110	6.50		5.21	5.21	72.44
0.000308	0.00781	7.00		4.99	4.99	77.43
0.000197	0.00500	7.65		6.00	6.00	83.43
0.000077	0.00195	9.00		10.00	10.00	93.44
0.000038	0.000977	10.00		4.39	4.39	97.83
0.000019	0.000488	11.00		1.98	1.98	99.81
0.000015	0.000375	11.38		0.19	0.19	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.50	0.0069	0.176
10	2.89	0.0053	0.135
16	3.20	0.0043	0.109
25	3.58	0.0033	0.083
40	4.22	0.0021	0.054
50	4.72	0.0015	0.038
60	5.37	0.0010	0.024
75	6.76	0.0004	0.009
84	7.72	0.0002	0.005
90	8.53	0.0001	0.003
95	9.36	0.0001	0.002

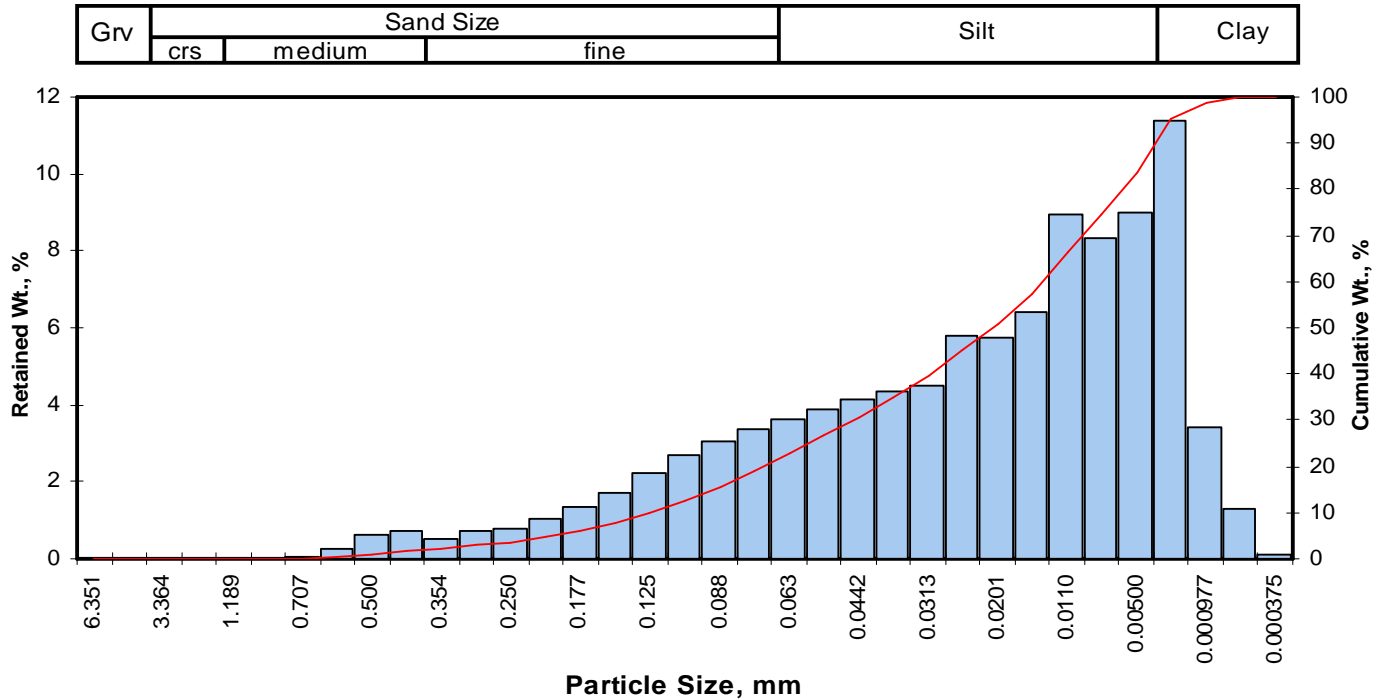
Measure	Trask	Inman	Folk-Ward
Median, phi	4.72	4.72	4.72
Median, in.	0.0015	0.0015	0.0015
Median, mm	0.038	0.038	0.038
Mean, phi	4.43	5.46	5.21
Mean, in.	0.0018	0.0009	0.0011
Mean, mm	0.046	0.023	0.027
Sorting	3.003	2.260	2.169
Skewness	0.730	0.330	0.342
Kurtosis	0.280	0.516	0.885

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.81
Fine Sand	200	28.28
Silt	>0.005 mm	54.34
Clay	<0.005 mm	16.57
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-81.5-82.0
 Depth, ft: 81.5-81.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.05	0.05	0.05
0.0234	0.595	0.75	30	0.27	0.27	0.32
0.0197	0.500	1.00	35	0.60	0.60	0.92
0.0166	0.420	1.25	40	0.70	0.70	1.62
0.0139	0.354	1.50	45	0.53	0.53	2.15
0.0117	0.297	1.75	50	0.71	0.71	2.86
0.0098	0.250	2.00	60	0.78	0.78	3.64
0.0083	0.210	2.25	70	1.03	1.03	4.67
0.0070	0.177	2.50	80	1.32	1.32	5.99
0.0059	0.149	2.75	100	1.73	1.73	7.72
0.0049	0.125	3.00	120	2.22	2.22	9.94
0.0041	0.105	3.25	140	2.67	2.67	12.61
0.0035	0.088	3.50	170	3.03	3.03	15.64
0.0029	0.074	3.75	200	3.35	3.35	18.99
0.0025	0.063	4.00	230	3.64	3.64	22.63
0.0021	0.053	4.25	270	3.88	3.88	26.51
0.00174	0.0442	4.50	325	4.16	4.16	30.67
0.00146	0.0372	4.75	400	4.37	4.37	35.04
0.00123	0.0313	5.00	450	4.51	4.51	39.55
0.000986	0.0250	5.32	500	5.77	5.77	45.32
0.000790	0.0201	5.64	635	5.74	5.74	51.06
0.000615	0.0156	6.00		6.40	6.40	57.46
0.000435	0.0110	6.50		8.93	8.93	66.39
0.000308	0.00781	7.00		8.35	8.35	74.74
0.000197	0.00500	7.65		9.02	9.02	83.76
0.000077	0.00195	9.00		11.40	11.40	95.16
0.000038	0.000977	10.00		3.42	3.42	98.58
0.000019	0.000488	11.00		1.30	1.30	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.31	0.0079	0.201
10	3.01	0.0049	0.125
16	3.53	0.0034	0.087
25	4.15	0.0022	0.056
40	5.02	0.0012	0.031
50	5.58	0.0008	0.021
60	6.14	0.0006	0.014
75	7.02	0.0003	0.008
84	7.67	0.0002	0.005
90	8.39	0.0001	0.003
95	8.98	0.0001	0.002

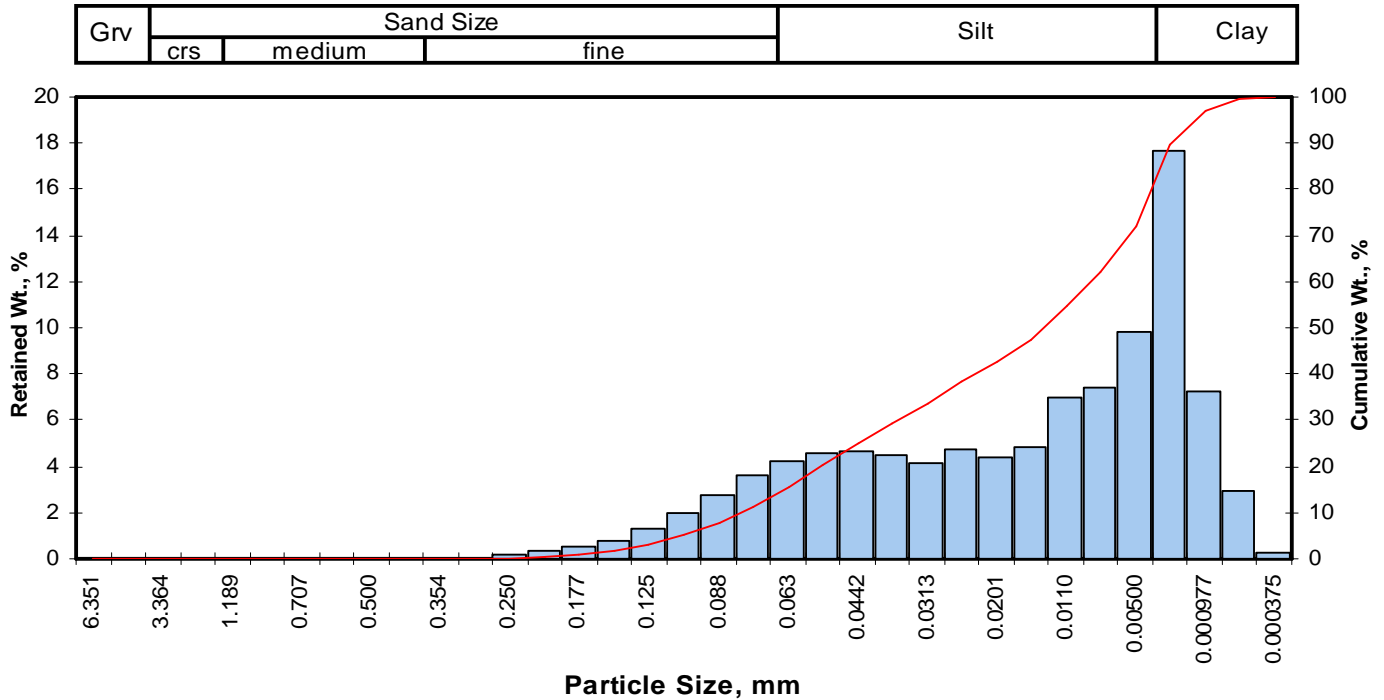
Measure	Trask	Inman	Folk-Ward
Median, phi	5.58	5.58	5.58
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.021	0.021	0.021
Mean, phi	4.97	5.60	5.59
Mean, in.	0.0013	0.0008	0.0008
Mean, mm	0.032	0.021	0.021
Sorting	2.700	2.073	2.047
Skewness	0.997	0.009	0.015
Kurtosis	0.200	0.608	0.954

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.62
Fine Sand	200	17.37
Silt	>0.005 mm	64.77
Clay	<0.005 mm	16.24
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-108.5-109.0
 Depth, ft: 108.5-108.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.02	0.02	0.02
0.0098	0.250	2.00	60	0.16	0.16	0.18
0.0083	0.210	2.25	70	0.36	0.36	0.54
0.0070	0.177	2.50	80	0.51	0.51	1.05
0.0059	0.149	2.75	100	0.76	0.76	1.81
0.0049	0.125	3.00	120	1.26	1.26	3.07
0.0041	0.105	3.25	140	1.96	1.96	5.03
0.0035	0.088	3.50	170	2.77	2.77	7.80
0.0029	0.074	3.75	200	3.58	3.58	11.38
0.0025	0.063	4.00	230	4.25	4.25	15.63
0.0021	0.053	4.25	270	4.60	4.60	20.23
0.00174	0.0442	4.50	325	4.69	4.69	24.92
0.00146	0.0372	4.75	400	4.49	4.49	29.41
0.00123	0.0313	5.00	450	4.15	4.15	33.56
0.000986	0.0250	5.32	500	4.77	4.77	38.33
0.000790	0.0201	5.64	635	4.43	4.43	42.76
0.000615	0.0156	6.00		4.86	4.86	47.62
0.000435	0.0110	6.50		7.01	7.01	54.63
0.000308	0.00781	7.00		7.43	7.43	62.06
0.000197	0.00500	7.65		9.80	9.80	71.85
0.000077	0.00195	9.00		17.70	17.70	89.55
0.000038	0.000977	10.00		7.28	7.28	96.83
0.000019	0.000488	11.00		2.91	2.91	99.74
0.000015	0.000375	11.38		0.26	0.26	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.25	0.0042	0.105
10	3.65	0.0031	0.079
16	4.02	0.0024	0.062
25	4.50	0.0017	0.044
40	5.44	0.0009	0.023
50	6.17	0.0005	0.014
60	6.86	0.0003	0.009
75	7.89	0.0002	0.004
84	8.57	0.0001	0.003
90	9.06	0.0001	0.002
95	9.75	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.17	6.17	6.17
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.014	0.014	0.014
Mean, phi	5.37	6.30	6.25
Mean, in.	0.0010	0.0005	0.0005
Mean, mm	0.024	0.013	0.013
Sorting	3.228	2.277	2.124
Skewness	0.983	0.056	0.078
Kurtosis	0.257	0.428	0.788

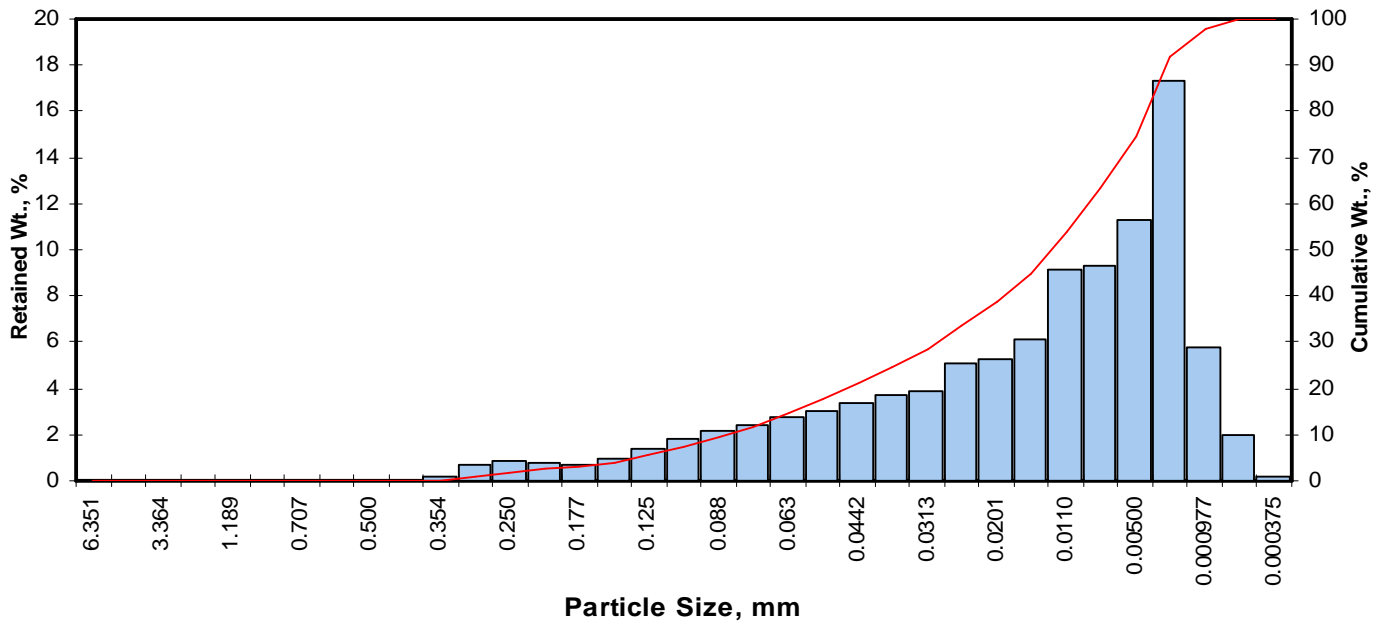
Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	11.38
Silt	>0.005 mm	60.47
Clay	<0.005 mm	28.15
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-112.5-113.0
 Depth, ft: 112.5-112.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.01	0.01	0.01
0.0139	0.354	1.50	45	0.13	0.13	0.14
0.0117	0.297	1.75	50	0.68	0.68	0.82
0.0098	0.250	2.00	60	0.86	0.86	1.68
0.0083	0.210	2.25	70	0.76	0.76	2.44
0.0070	0.177	2.50	80	0.67	0.67	3.11
0.0059	0.149	2.75	100	0.91	0.91	4.02
0.0049	0.125	3.00	120	1.37	1.37	5.39
0.0041	0.105	3.25	140	1.80	1.80	7.19
0.0035	0.088	3.50	170	2.15	2.15	9.34
0.0029	0.074	3.75	200	2.45	2.45	11.79
0.0025	0.063	4.00	230	2.74	2.74	14.53
0.0021	0.053	4.25	270	3.03	3.03	17.55
0.00174	0.0442	4.50	325	3.39	3.39	20.94
0.00146	0.0372	4.75	400	3.68	3.68	24.62
0.00123	0.0313	5.00	450	3.88	3.88	28.50
0.000986	0.0250	5.32	500	5.09	5.09	33.59
0.000790	0.0201	5.64	635	5.26	5.26	38.85
0.000615	0.0156	6.00		6.12	6.12	44.96
0.000435	0.0110	6.50		9.11	9.11	54.07
0.000308	0.00781	7.00		9.35	9.35	63.41
0.000197	0.00500	7.65		11.30	11.30	74.71
0.000077	0.00195	9.00		17.30	17.29	92.00
0.000038	0.000977	10.00		5.81	5.81	97.81
0.000019	0.000488	11.00		2.02	2.02	99.83
0.000015	0.000375	11.38		0.17	0.17	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.93	0.0052	0.131
10	3.57	0.0033	0.084
16	4.12	0.0023	0.057
25	4.77	0.0014	0.037
40	5.71	0.0008	0.019
50	6.28	0.0005	0.013
60	6.82	0.0003	0.009
75	7.67	0.0002	0.005
84	8.37	0.0001	0.003
90	8.84	0.0001	0.002
95	9.52	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.28	6.28	6.28
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.013	0.013	0.013
Mean, phi	5.59	6.25	6.26
Mean, in.	0.0008	0.0005	0.0005
Mean, mm	0.021	0.013	0.013
Sorting	2.726	2.126	2.061
Skewness	1.039	-0.014	-0.015
Kurtosis	0.192	0.549	0.933

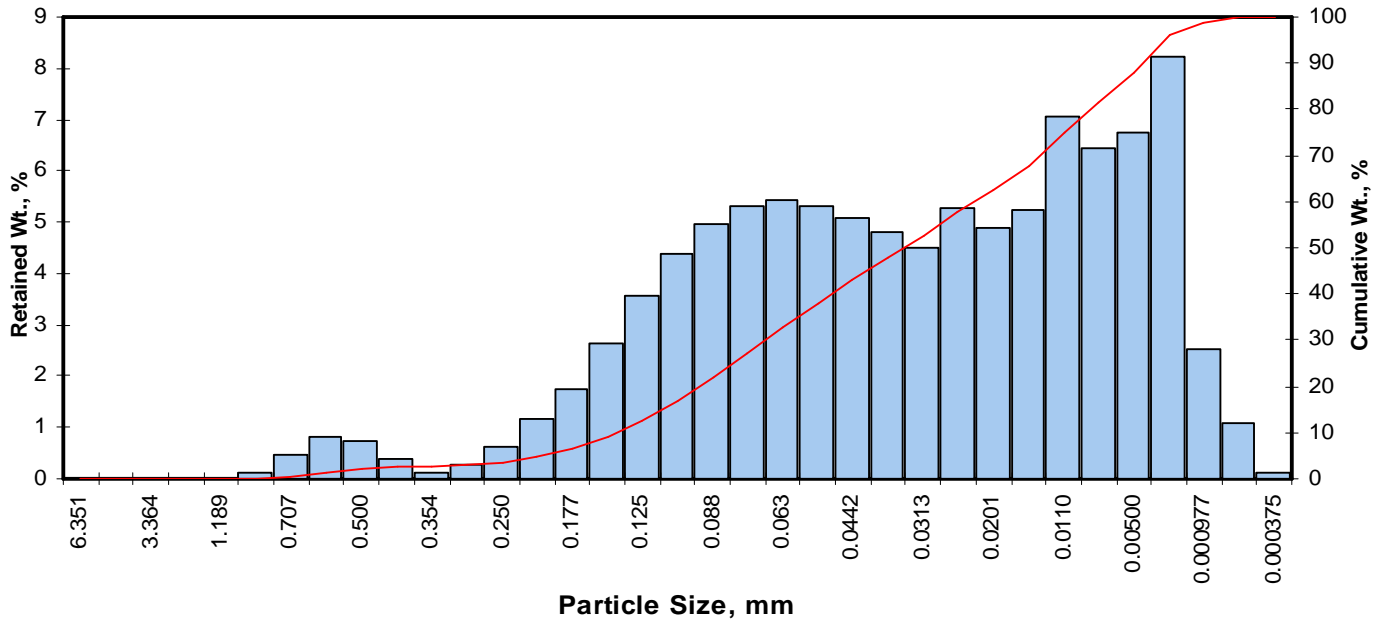
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.01
Fine Sand	200	11.78
Silt	>0.005 mm	62.92
Clay	<0.005 mm	25.29
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-117.5-118.0
 Depth, ft: 117.5-117.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.10	0.10	0.10
0.0278	0.707	0.50	25	0.45	0.45	0.55
0.0234	0.595	0.75	30	0.81	0.81	1.36
0.0197	0.500	1.00	35	0.75	0.75	2.11
0.0166	0.420	1.25	40	0.37	0.37	2.48
0.0139	0.354	1.50	45	0.13	0.13	2.61
0.0117	0.297	1.75	50	0.28	0.28	2.89
0.0098	0.250	2.00	60	0.64	0.64	3.53
0.0083	0.210	2.25	70	1.15	1.15	4.68
0.0070	0.177	2.50	80	1.76	1.76	6.44
0.0059	0.149	2.75	100	2.62	2.62	9.06
0.0049	0.125	3.00	120	3.57	3.57	12.63
0.0041	0.105	3.25	140	4.38	4.38	17.01
0.0035	0.088	3.50	170	4.98	4.98	21.99
0.0029	0.074	3.75	200	5.33	5.33	27.32
0.0025	0.063	4.00	230	5.43	5.43	32.75
0.0021	0.053	4.25	270	5.31	5.31	38.06
0.00174	0.0442	4.50	325	5.10	5.10	43.16
0.00146	0.0372	4.75	400	4.81	4.81	47.97
0.00123	0.0313	5.00	450	4.50	4.50	52.46
0.000986	0.0250	5.32	500	5.28	5.28	57.74
0.000790	0.0201	5.64	635	4.88	4.88	62.62
0.000615	0.0156	6.00		5.22	5.22	67.84
0.000435	0.0110	6.50		7.06	7.06	74.90
0.000308	0.00781	7.00		6.43	6.43	81.33
0.000197	0.00500	7.65		6.76	6.76	88.09
0.000077	0.00195	9.00		8.22	8.22	96.31
0.000038	0.000977	10.00		2.52	2.52	98.83
0.000019	0.000488	11.00		1.07	1.07	99.90
0.000015	0.000375	11.38		0.10	0.10	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.30	0.0080	0.204
10	2.82	0.0056	0.142
16	3.19	0.0043	0.109
25	3.64	0.0032	0.080
40	4.35	0.0019	0.049
50	4.86	0.0014	0.034
60	5.47	0.0009	0.023
75	6.51	0.0004	0.011
84	7.25	0.0003	0.007
90	7.96	0.0002	0.004
95	8.78	0.0001	0.002

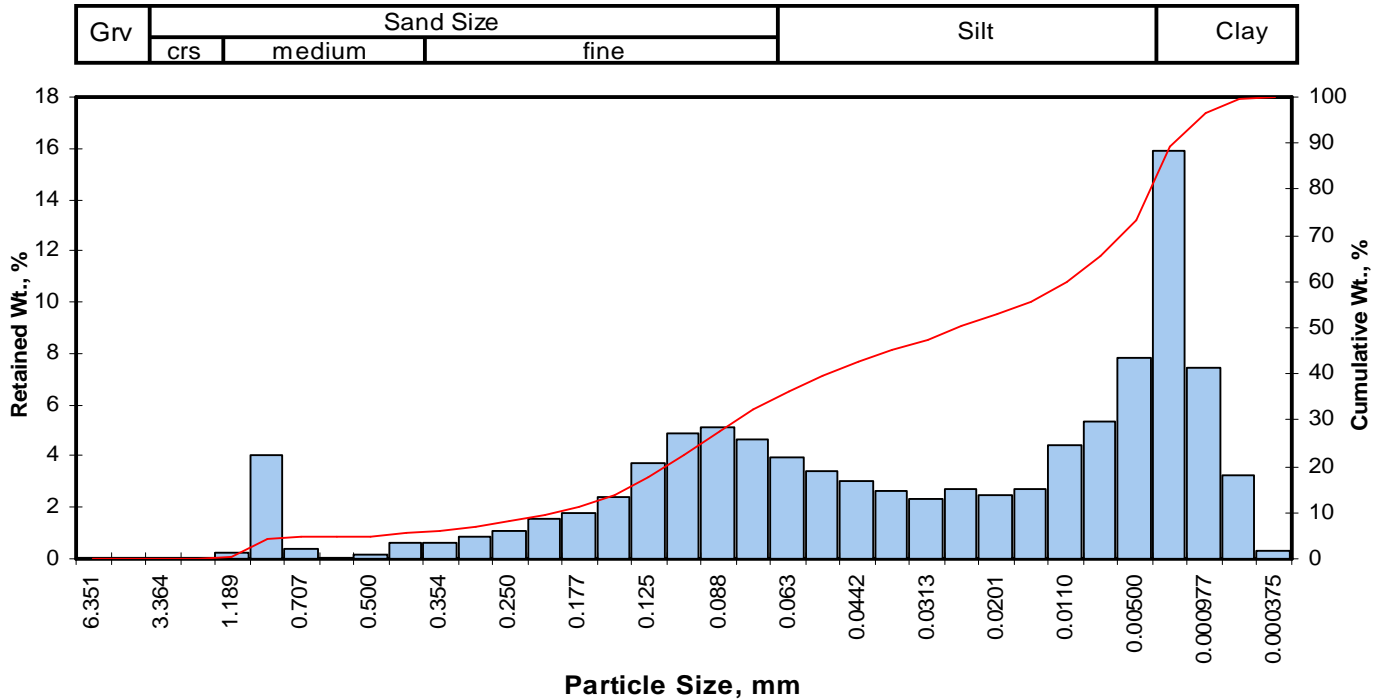
Measure	Trask	Inman	Folk-Ward
Median, phi	4.86	4.86	4.86
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.034	0.034	0.034
Mean, phi	4.46	5.22	5.10
Mean, in.	0.0018	0.0011	0.0011
Mean, mm	0.046	0.027	0.029
Sorting	2.700	2.031	1.999
Skewness	0.864	0.177	0.193
Kurtosis	0.251	0.597	0.928

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.48
Fine Sand	200	24.84
Silt	>0.005 mm	60.77
Clay	<0.005 mm	11.91
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-123.5-124.0
 Depth, ft: 123.8-124.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.23	0.23	0.23
0.0331	0.841	0.25	20	4.06	4.06	4.29
0.0278	0.707	0.50	25	0.38	0.38	4.67
0.0234	0.595	0.75	30	0.01	0.01	4.68
0.0197	0.500	1.00	35	0.19	0.19	4.87
0.0166	0.420	1.25	40	0.63	0.63	5.50
0.0139	0.354	1.50	45	0.60	0.60	6.10
0.0117	0.297	1.75	50	0.88	0.88	6.98
0.0098	0.250	2.00	60	1.11	1.11	8.09
0.0083	0.210	2.25	70	1.53	1.53	9.62
0.0070	0.177	2.50	80	1.77	1.77	11.39
0.0059	0.149	2.75	100	2.41	2.41	13.81
0.0049	0.125	3.00	120	3.73	3.73	17.54
0.0041	0.105	3.25	140	4.88	4.88	22.42
0.0035	0.088	3.50	170	5.11	5.11	27.53
0.0029	0.074	3.75	200	4.63	4.63	32.16
0.0025	0.063	4.00	230	3.99	3.99	36.15
0.0021	0.053	4.25	270	3.45	3.45	39.61
0.00174	0.0442	4.50	325	3.01	3.01	42.62
0.00146	0.0372	4.75	400	2.63	2.63	45.25
0.00123	0.0313	5.00	450	2.36	2.36	47.61
0.000986	0.0250	5.32	500	2.74	2.74	50.35
0.000790	0.0201	5.64	635	2.49	2.49	52.84
0.000615	0.0156	6.00		2.72	2.72	55.56
0.000435	0.0110	6.50		4.40	4.40	59.96
0.000308	0.00781	7.00		5.36	5.36	65.33
0.000197	0.00500	7.65		7.81	7.81	73.14
0.000077	0.00195	9.00		15.90	15.91	89.05
0.000038	0.000977	10.00		7.43	7.43	96.48
0.000019	0.000488	11.00		3.22	3.22	99.70
0.000015	0.000375	11.38		0.30	0.30	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.05	0.0190	0.483
10	2.30	0.0080	0.203
16	2.90	0.0053	0.134
25	3.38	0.0038	0.096
40	4.28	0.0020	0.051
50	5.28	0.0010	0.026
60	6.50	0.0004	0.011
75	7.80	0.0002	0.004
84	8.57	0.0001	0.003
90	9.13	0.0001	0.002
95	9.80	0.0000	0.001

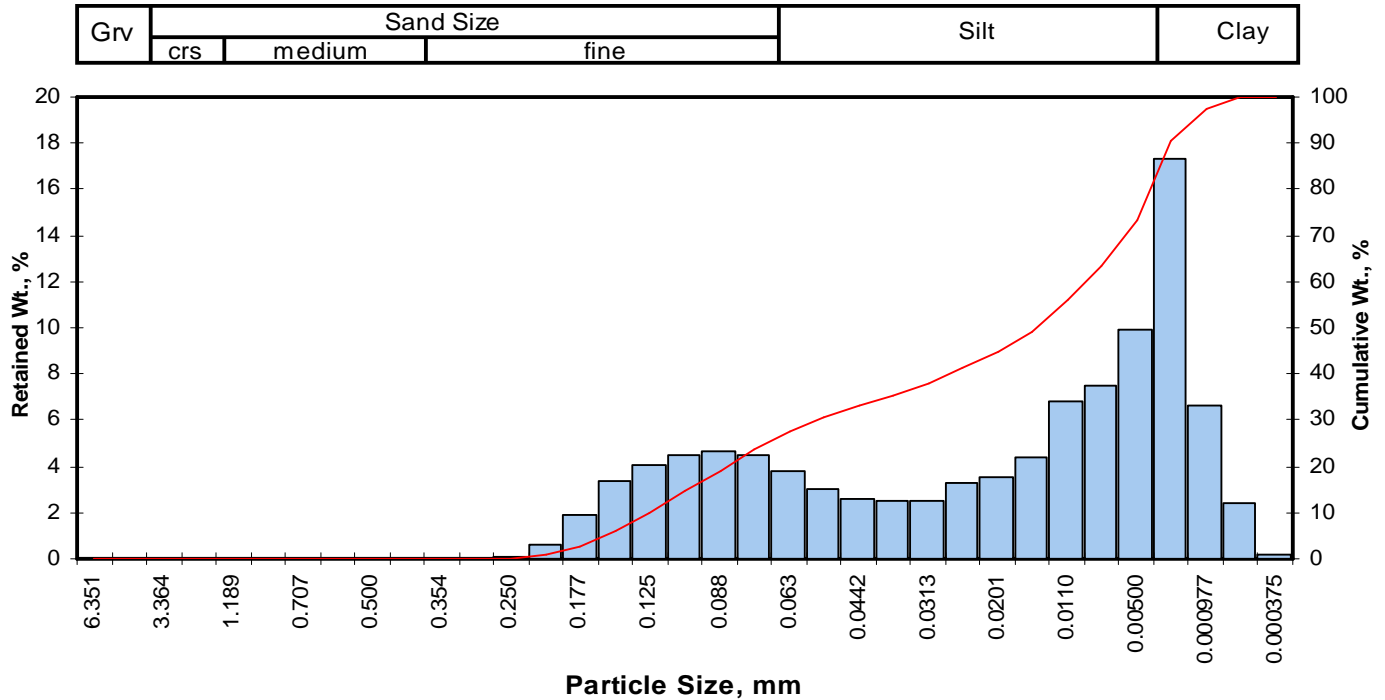
Measure	Trask	Inman	Folk-Ward
Median, phi	5.28	5.28	5.28
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.026	0.026	0.026
Mean, phi	4.31	5.73	5.58
Mean, in.	0.0020	0.0007	0.0008
Mean, mm	0.050	0.019	0.021
Sorting	4.638	2.837	2.744
Skewness	0.806	0.160	0.097
Kurtosis	0.229	0.542	0.810

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.50
Fine Sand	200	26.66
Silt	>0.005 mm	40.98
Clay	<0.005 mm	26.86
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI20-128.0-128.5
 Depth, ft: 128.0-128.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.06	0.06	0.06
0.0083	0.210	2.25	70	0.61	0.61	0.67
0.0070	0.177	2.50	80	1.92	1.92	2.59
0.0059	0.149	2.75	100	3.33	3.33	5.92
0.0049	0.125	3.00	120	4.09	4.09	10.01
0.0041	0.105	3.25	140	4.48	4.48	14.49
0.0035	0.088	3.50	170	4.67	4.67	19.16
0.0029	0.074	3.75	200	4.46	4.46	23.62
0.0025	0.063	4.00	230	3.79	3.79	27.41
0.0021	0.053	4.25	270	3.02	3.02	30.43
0.00174	0.0442	4.50	325	2.58	2.58	33.01
0.00146	0.0372	4.75	400	2.48	2.48	35.49
0.00123	0.0313	5.00	450	2.50	2.50	37.98
0.000986	0.0250	5.32	500	3.25	3.25	41.23
0.000790	0.0201	5.64	635	3.52	3.52	44.75
0.000615	0.0156	6.00		4.36	4.36	49.11
0.000435	0.0110	6.50		6.83	6.83	55.94
0.000308	0.00781	7.00		7.54	7.54	63.48
0.000197	0.00500	7.65		9.94	9.94	73.42
0.000077	0.00195	9.00		17.30	17.30	90.71
0.000038	0.000977	10.00		6.66	6.66	97.37
0.000019	0.000488	11.00		2.42	2.42	99.79
0.000015	0.000375	11.38		0.21	0.21	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.68	0.0061	0.156
10	3.00	0.0049	0.125
16	3.33	0.0039	0.099
25	3.84	0.0027	0.070
40	5.20	0.0011	0.027
50	6.07	0.0006	0.015
60	6.77	0.0004	0.009
75	7.77	0.0002	0.005
84	8.47	0.0001	0.003
90	8.94	0.0001	0.002
95	9.64	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.07	6.07	6.07
Median, in.	0.0006	0.0006	0.0006
Median, mm	0.015	0.015	0.015
Mean, phi	4.75	5.90	5.96
Mean, in.	0.0015	0.0007	0.0006
Mean, mm	0.037	0.017	0.016
Sorting	3.901	2.572	2.341
Skewness	1.197	-0.063	-0.018
Kurtosis	0.265	0.354	0.727

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	23.62
Silt	>0.005 mm	49.80
Clay	<0.005 mm	26.58
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3B

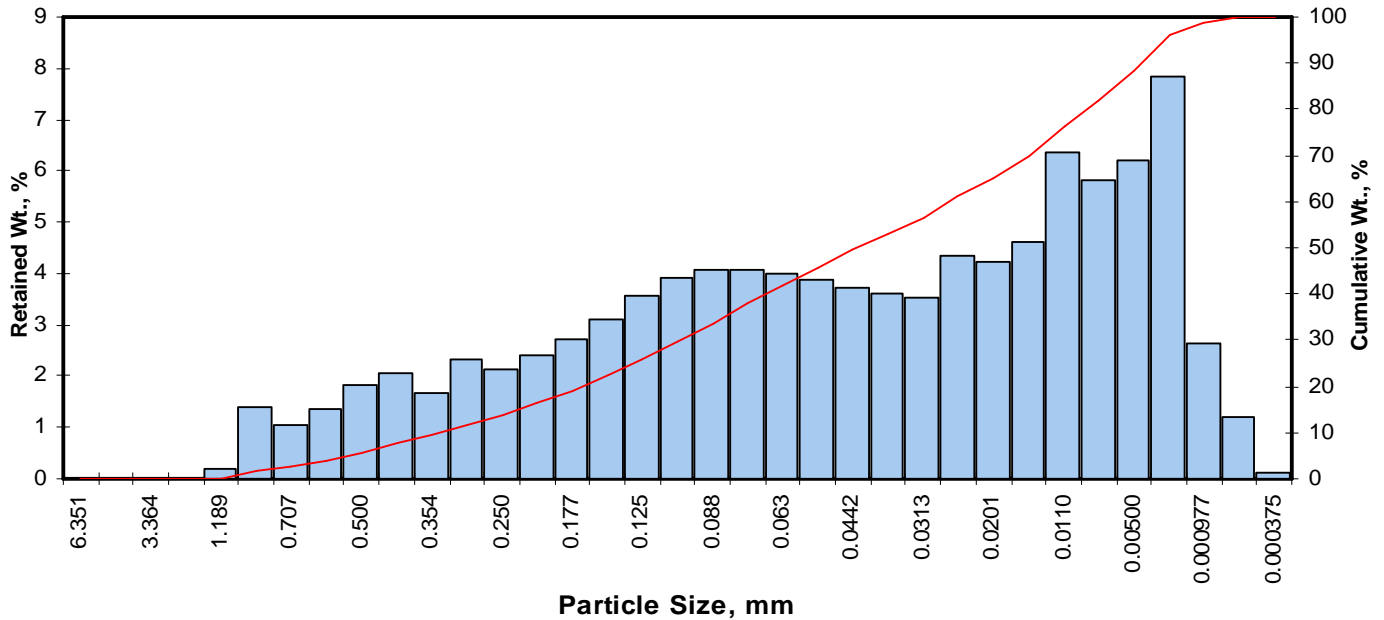
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI24-36.2-36.5	36.2-36.5	Silt	0.043	0.00	0.00	7.84	30.05	50.32	11.80	62.11
PT-RI24-42.0-42.5	42.0-42.5	Silt	0.038	0.00	0.00	3.53	29.31	52.87	14.29	67.16
PT-RI24-78.5-78.8	78.5-78.5	Silt	0.018	0.00	0.00	0.00	16.15	61.02	22.83	83.85
PT-RI24-83.7-84.0	83.7-84.0	Silt	0.055	0.00	0.00	1.84	36.54	51.37	10.25	61.62
PT-RI24-93.5-94.0	93.5-94.0	Silt	0.011	0.00	0.00	0.00	6.55	69.27	24.18	93.45

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-36.2-36.5
 Depth, ft: 36.2-36.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.19	0.19	0.19
0.0331	0.841	0.25	20	1.39	1.39	1.58
0.0278	0.707	0.50	25	1.03	1.03	2.61
0.0234	0.595	0.75	30	1.36	1.36	3.97
0.0197	0.500	1.00	35	1.83	1.83	5.80
0.0166	0.420	1.25	40	2.04	2.04	7.84
0.0139	0.354	1.50	45	1.68	1.68	9.52
0.0117	0.297	1.75	50	2.31	2.31	11.84
0.0098	0.250	2.00	60	2.15	2.15	13.99
0.0083	0.210	2.25	70	2.41	2.41	16.40
0.0070	0.177	2.50	80	2.70	2.70	19.10
0.0059	0.149	2.75	100	3.12	3.12	22.22
0.0049	0.125	3.00	120	3.58	3.58	25.80
0.0041	0.105	3.25	140	3.92	3.92	29.72
0.0035	0.088	3.50	170	4.07	4.07	33.80
0.0029	0.074	3.75	200	4.09	4.09	37.89
0.0025	0.063	4.00	230	4.01	4.01	41.90
0.0021	0.053	4.25	270	3.86	3.86	45.76
0.00174	0.0442	4.50	325	3.73	3.73	49.49
0.00146	0.0372	4.75	400	3.62	3.62	53.12
0.00123	0.0313	5.00	450	3.53	3.53	56.65
0.000986	0.0250	5.32	500	4.35	4.35	61.00
0.000790	0.0201	5.64	635	4.21	4.21	65.21
0.000615	0.0156	6.00		4.61	4.61	69.82
0.000435	0.0110	6.50		6.34	6.34	76.17
0.000308	0.00781	7.00		5.83	5.83	82.00
0.000197	0.00500	7.65		6.20	6.20	88.20
0.000077	0.00195	9.00		7.83	7.83	96.04
0.000038	0.000977	10.00		2.64	2.64	98.68
0.000019	0.000488	11.00		1.20	1.20	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.89	0.0212	0.539
10	1.55	0.0134	0.341
16	2.21	0.0085	0.216
25	2.94	0.0051	0.130
40	3.88	0.0027	0.068
50	4.53	0.0017	0.043
60	5.25	0.0010	0.026
75	6.41	0.0005	0.012
84	7.21	0.0003	0.007
90	7.96	0.0002	0.004
95	8.82	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.53	4.53	4.53
Median, in.	0.0017	0.0017	0.0017
Median, mm	0.043	0.043	0.043
Mean, phi	3.82	4.71	4.65
Mean, in.	0.0028	0.0015	0.0016
Mean, mm	0.071	0.038	0.040
Sorting	3.322	2.500	2.451
Skewness	0.907	0.069	0.075
Kurtosis	0.175	0.586	0.938

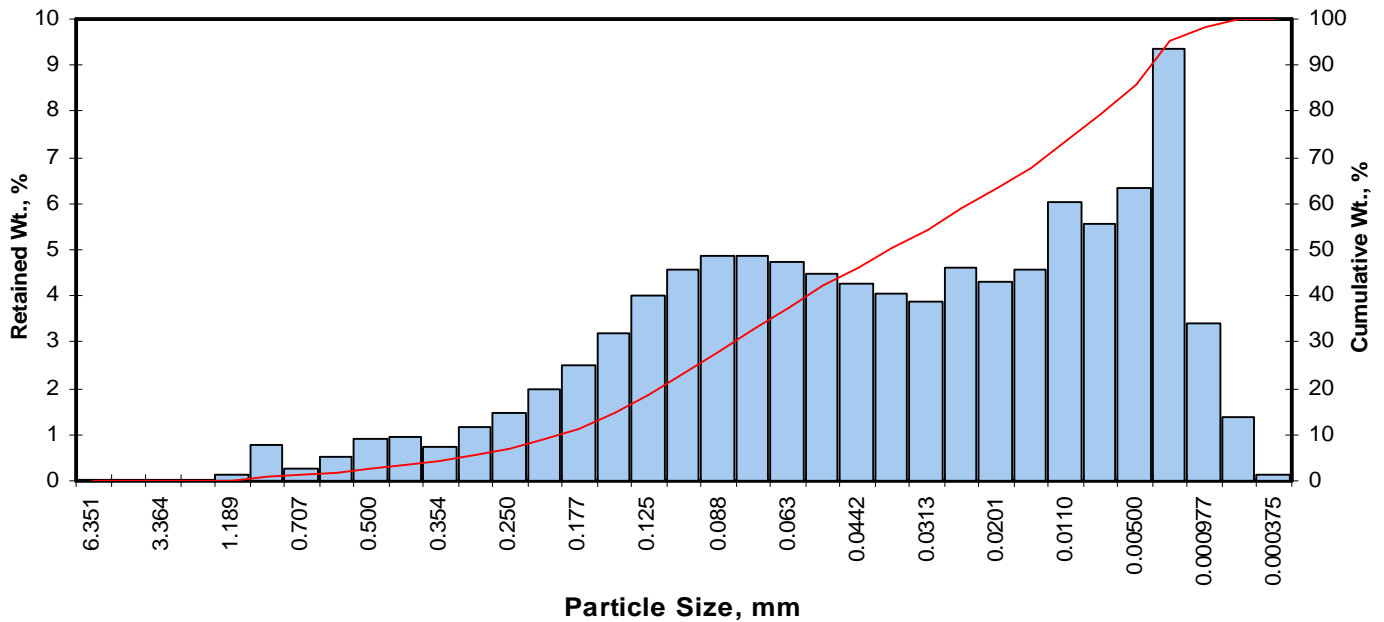
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.84
Fine Sand	200	30.05
Silt	>0.005 mm	50.32
Clay	<0.005 mm	11.80
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-42.0-42.5
 Depth, ft: 42.0-42.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.13	0.13	0.13
0.0331	0.841	0.25	20	0.76	0.76	0.89
0.0278	0.707	0.50	25	0.27	0.27	1.16
0.0234	0.595	0.75	30	0.51	0.51	1.67
0.0197	0.500	1.00	35	0.90	0.90	2.57
0.0166	0.420	1.25	40	0.96	0.96	3.53
0.0139	0.354	1.50	45	0.74	0.74	4.27
0.0117	0.297	1.75	50	1.17	1.17	5.44
0.0098	0.250	2.00	60	1.45	1.45	6.89
0.0083	0.210	2.25	70	1.97	1.97	8.86
0.0070	0.177	2.50	80	2.49	2.49	11.35
0.0059	0.149	2.75	100	3.20	3.20	14.55
0.0049	0.125	3.00	120	3.99	3.99	18.54
0.0041	0.105	3.25	140	4.58	4.58	23.12
0.0035	0.088	3.50	170	4.85	4.85	27.97
0.0029	0.074	3.75	200	4.87	4.87	32.84
0.0025	0.063	4.00	230	4.72	4.72	37.56
0.0021	0.053	4.25	270	4.48	4.48	42.04
0.00174	0.0442	4.50	325	4.26	4.26	46.30
0.00146	0.0372	4.75	400	4.06	4.06	50.36
0.00123	0.0313	5.00	450	3.86	3.86	54.22
0.000986	0.0250	5.32	500	4.63	4.63	58.85
0.000790	0.0201	5.64	635	4.33	4.33	63.18
0.000615	0.0156	6.00		4.58	4.58	67.76
0.000435	0.0110	6.50		6.05	6.05	73.81
0.000308	0.00781	7.00		5.58	5.58	79.39
0.000197	0.00500	7.65		6.32	6.32	85.71
0.000077	0.00195	9.00		9.36	9.36	95.07
0.000038	0.000977	10.00		3.41	3.41	98.48
0.000019	0.000488	11.00		1.39	1.39	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.66	0.0125	0.317
10	2.36	0.0076	0.194
16	2.84	0.0055	0.140
25	3.35	0.0039	0.098
40	4.14	0.0022	0.057
50	4.73	0.0015	0.038
60	5.40	0.0009	0.024
75	6.61	0.0004	0.010
84	7.47	0.0002	0.006
90	8.27	0.0001	0.003
95	8.99	0.0001	0.002

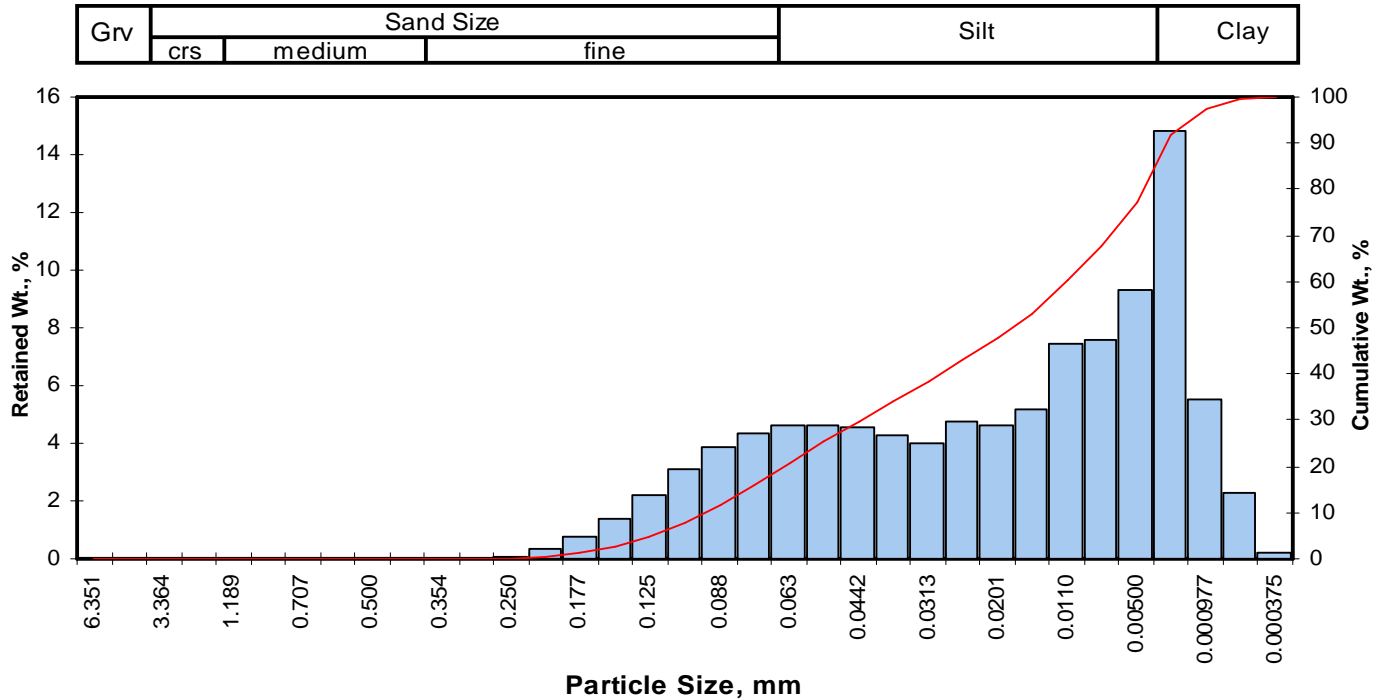
Measure	Trask	Inman	Folk-Ward
Median, phi	4.73	4.73	4.73
Median, in.	0.0015	0.0015	0.0015
Median, mm	0.038	0.038	0.038
Mean, phi	4.20	5.16	5.01
Mean, in.	0.0021	0.0011	0.0012
Mean, mm	0.054	0.028	0.031
Sorting	3.095	2.315	2.269
Skewness	0.842	0.185	0.174
Kurtosis	0.230	0.584	0.922

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.53
Fine Sand	200	29.31
Silt	>0.005 mm	52.87
Clay	<0.005 mm	14.29
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-78.5-78.8
 Depth, ft: 78.5-78.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.01	0.01	0.01
0.0098	0.250	2.00	60	0.09	0.09	0.10
0.0083	0.210	2.25	70	0.35	0.35	0.45
0.0070	0.177	2.50	80	0.75	0.75	1.20
0.0059	0.149	2.75	100	1.41	1.41	2.61
0.0049	0.125	3.00	120	2.24	2.24	4.85
0.0041	0.105	3.25	140	3.10	3.10	7.95
0.0035	0.088	3.50	170	3.84	3.84	11.79
0.0029	0.074	3.75	200	4.36	4.36	16.15
0.0025	0.063	4.00	230	4.63	4.63	20.78
0.0021	0.053	4.25	270	4.64	4.64	25.42
0.00174	0.0442	4.50	325	4.52	4.52	29.94
0.00146	0.0372	4.75	400	4.27	4.27	34.21
0.00123	0.0313	5.00	450	4.01	4.01	38.22
0.000986	0.0250	5.32	500	4.79	4.79	43.01
0.000790	0.0201	5.64	635	4.64	4.64	47.65
0.000615	0.0156	6.00		5.19	5.19	52.84
0.000435	0.0110	6.50		7.46	7.46	60.30
0.000308	0.00781	7.00		7.56	7.56	67.87
0.000197	0.00500	7.65		9.30	9.30	77.17
0.000077	0.00195	9.00		14.80	14.80	91.97
0.000038	0.000977	10.00		5.52	5.52	97.49
0.000019	0.000488	11.00		2.29	2.29	99.78
0.000015	0.000375	11.38		0.22	0.22	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.01	0.0049	0.124
10	3.38	0.0038	0.096
16	3.74	0.0029	0.075
25	4.23	0.0021	0.053
40	5.12	0.0011	0.029
50	5.80	0.0007	0.018
60	6.48	0.0004	0.011
75	7.49	0.0002	0.006
84	8.27	0.0001	0.003
90	8.82	0.0001	0.002
95	9.55	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.80	5.80	5.80
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.018	0.018	0.018
Mean, phi	5.08	6.01	5.94
Mean, in.	0.0012	0.0006	0.0006
Mean, mm	0.029	0.016	0.016
Sorting	3.103	2.265	2.123
Skewness	0.960	0.090	0.118
Kurtosis	0.256	0.443	0.820

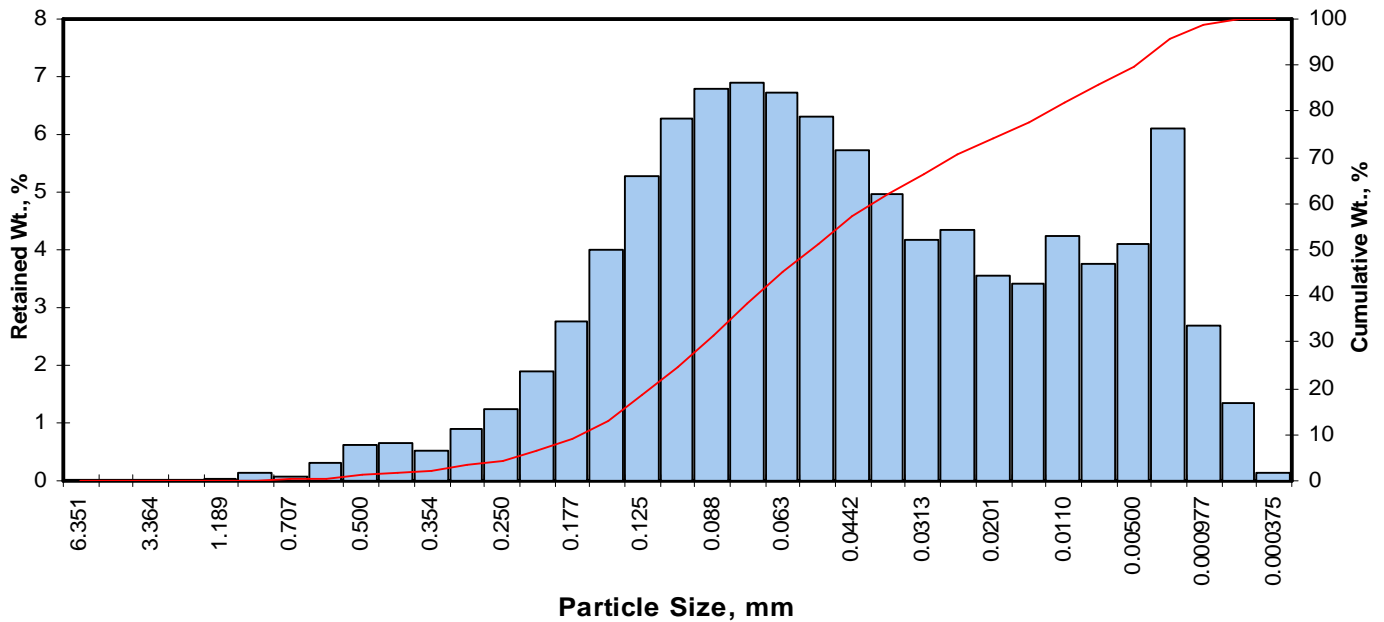
Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	16.15
Silt	>0.005 mm	61.02
Clay	<0.005 mm	22.83
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-83.7-84.0
 Depth, ft: 83.7-84.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.04	0.04	0.04
0.0331	0.841	0.25	20	0.15	0.15	0.19
0.0278	0.707	0.50	25	0.08	0.08	0.27
0.0234	0.595	0.75	30	0.30	0.30	0.57
0.0197	0.500	1.00	35	0.62	0.62	1.19
0.0166	0.420	1.25	40	0.65	0.65	1.84
0.0139	0.354	1.50	45	0.51	0.51	2.35
0.0117	0.297	1.75	50	0.90	0.90	3.25
0.0098	0.250	2.00	60	1.25	1.25	4.50
0.0083	0.210	2.25	70	1.90	1.90	6.40
0.0070	0.177	2.50	80	2.75	2.75	9.15
0.0059	0.149	2.75	100	3.99	3.99	13.14
0.0049	0.125	3.00	120	5.29	5.29	18.43
0.0041	0.105	3.25	140	6.27	6.27	24.70
0.0035	0.088	3.50	170	6.78	6.78	31.47
0.0029	0.074	3.75	200	6.91	6.91	38.38
0.0025	0.063	4.00	230	6.74	6.74	45.12
0.0021	0.053	4.25	270	6.32	6.32	51.44
0.00174	0.0442	4.50	325	5.73	5.73	57.17
0.00146	0.0372	4.75	400	4.97	4.97	62.14
0.00123	0.0313	5.00	450	4.19	4.19	66.33
0.000986	0.0250	5.32	500	4.36	4.36	70.69
0.000790	0.0201	5.64	635	3.54	3.54	74.23
0.000615	0.0156	6.00		3.41	3.41	77.63
0.000435	0.0110	6.50		4.25	4.25	81.88
0.000308	0.00781	7.00		3.76	3.76	85.64
0.000197	0.00500	7.65		4.11	4.11	89.75
0.000077	0.00195	9.00		6.10	6.10	95.85
0.000038	0.000977	10.00		2.68	2.68	98.53
0.000019	0.000488	11.00		1.34	1.34	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.07	0.0094	0.239
10	2.55	0.0067	0.170
16	2.89	0.0053	0.135
25	3.26	0.0041	0.104
40	3.81	0.0028	0.071
50	4.19	0.0022	0.055
60	4.64	0.0016	0.040
75	5.72	0.0007	0.019
84	6.78	0.0004	0.009
90	7.70	0.0002	0.005
95	8.81	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.19	4.19	4.19
Median, in.	0.0022	0.0022	0.0022
Median, mm	0.055	0.055	0.055
Mean, phi	4.02	4.83	4.62
Mean, in.	0.0024	0.0014	0.0016
Mean, mm	0.062	0.035	0.041
Sorting	2.346	1.948	1.996
Skewness	0.813	0.329	0.349
Kurtosis	0.258	0.731	1.123

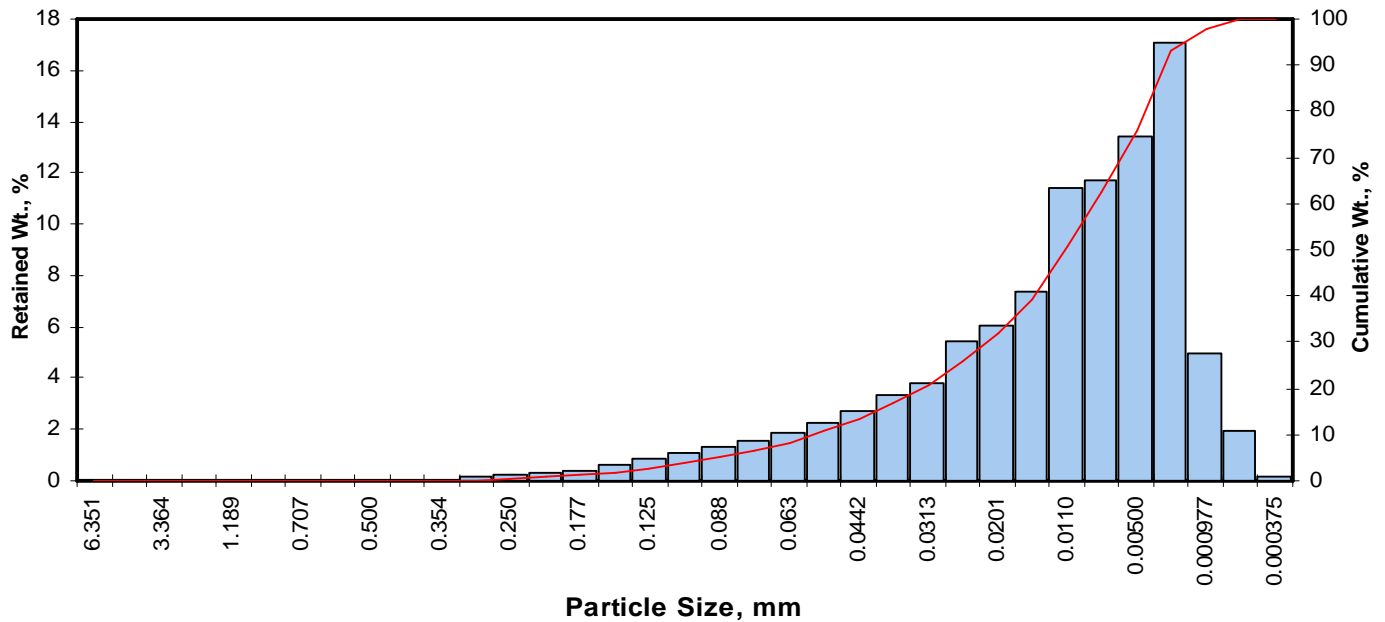
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.84
Fine Sand	200	36.54
Silt	>0.005 mm	51.37
Clay	<0.005 mm	10.25
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-93.5-94.0
 Depth, ft: 93.5-94.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.01	0.01	0.01
0.0117	0.297	1.75	50	0.12	0.12	0.13
0.0098	0.250	2.00	60	0.24	0.24	0.37
0.0083	0.210	2.25	70	0.32	0.32	0.69
0.0070	0.177	2.50	80	0.41	0.41	1.10
0.0059	0.149	2.75	100	0.62	0.62	1.72
0.0049	0.125	3.00	120	0.89	0.89	2.61
0.0041	0.105	3.25	140	1.12	1.12	3.73
0.0035	0.088	3.50	170	1.30	1.30	5.03
0.0029	0.074	3.75	200	1.52	1.52	6.55
0.0025	0.063	4.00	230	1.83	1.83	8.38
0.0021	0.053	4.25	270	2.22	2.22	10.60
0.00174	0.0442	4.50	325	2.74	2.74	13.35
0.00146	0.0372	4.75	400	3.30	3.30	16.65
0.00123	0.0313	5.00	450	3.83	3.83	20.48
0.000986	0.0250	5.32	500	5.46	5.46	25.94
0.000790	0.0201	5.64	635	6.02	6.02	31.96
0.000615	0.0156	6.00		7.35	7.35	39.31
0.000435	0.0110	6.50		11.40	11.40	50.72
0.000308	0.00781	7.00		11.70	11.70	62.42
0.000197	0.00500	7.65		13.40	13.40	75.82
0.000077	0.00195	9.00		17.10	17.10	92.93
0.000038	0.000977	10.00		4.96	4.96	97.89
0.000019	0.000488	11.00		1.93	1.93	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.49	0.0035	0.089
10	4.18	0.0022	0.055
16	4.70	0.0015	0.038
25	5.26	0.0010	0.026
40	6.03	0.0006	0.015
50	6.47	0.0004	0.011
60	6.90	0.0003	0.008
75	7.61	0.0002	0.005
84	8.29	0.0001	0.003
90	8.77	0.0001	0.002
95	9.42	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.47	6.47	6.47
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.011	0.011	0.011
Mean, phi	6.01	6.50	6.49
Mean, in.	0.0006	0.0004	0.0004
Mean, mm	0.016	0.011	0.011
Sorting	2.250	1.796	1.795
Skewness	1.023	0.016	0.006
Kurtosis	0.198	0.649	1.037

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	6.55
Silt	>0.005 mm	69.27
Clay	<0.005 mm	24.18
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

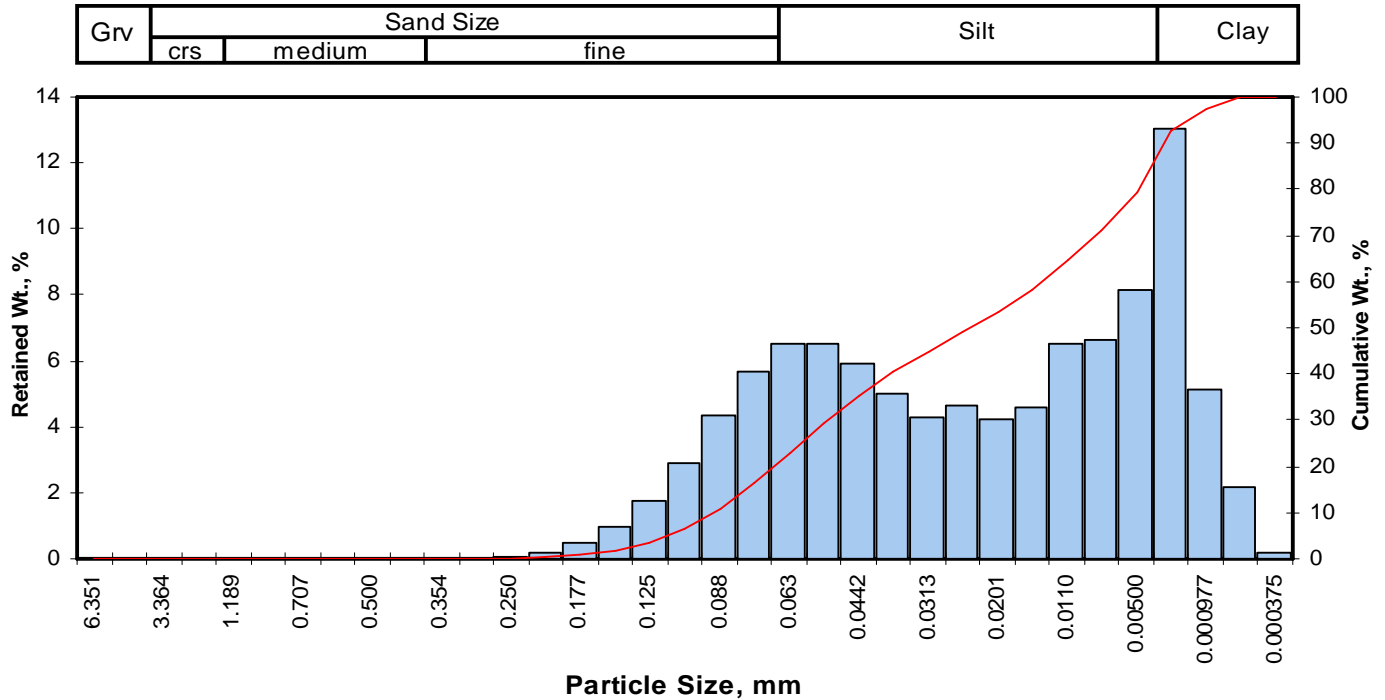
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3B

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI24-107.0-107.5	107.0-107.2	Silt	0.024	0.00	0.00	0.00	16.46	63.01	20.53	83.54
PT-RI24-113.0-113.5	113.0-113.2	Silt	0.013	0.00	0.00	0.00	10.58	60.65	28.77	89.42
PT-RI24-122.0-122.5	122.0-122.2	Silt	0.023	0.00	0.00	2.33	17.54	60.68	19.46	80.13
PT-RI24-142.0-142.5	142.0-142.2	Silt	0.025	0.00	0.00	1.99	20.91	58.70	18.40	77.10
PT-RI24-147.7-148.0	147.7-148.0	Silt	0.019	0.00	0.00	0.80	14.70	62.60	21.90	84.50
PT-RI21-76.0-76.3	76.0-76.3	Silt	0.041	0.00	0.00	2.40	33.14	49.73	14.74	64.47
PT-RI25-31.7-32.0	31.7-32.0	Fine sand	0.066	0.00	0.00	15.14	32.00	44.65	8.21	52.86

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-107.0-107.5
 Depth, ft: 107.0-107.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.05	0.05	0.05
0.0083	0.210	2.25	70	0.21	0.21	0.26
0.0070	0.177	2.50	80	0.50	0.50	0.76
0.0059	0.149	2.75	100	0.99	0.99	1.75
0.0049	0.125	3.00	120	1.77	1.77	3.52
0.0041	0.105	3.25	140	2.91	2.91	6.44
0.0035	0.088	3.50	170	4.33	4.33	10.77
0.0029	0.074	3.75	200	5.69	5.69	16.46
0.0025	0.063	4.00	230	6.51	6.51	22.98
0.0021	0.053	4.25	270	6.51	6.51	29.49
0.00174	0.0442	4.50	325	5.90	5.90	35.39
0.00146	0.0372	4.75	400	5.02	5.02	40.42
0.00123	0.0313	5.00	450	4.26	4.26	44.68
0.000986	0.0250	5.32	500	4.67	4.67	49.35
0.000790	0.0201	5.64	635	4.22	4.22	53.57
0.000615	0.0156	6.00		4.57	4.57	58.15
0.000435	0.0110	6.50		6.54	6.54	64.69
0.000308	0.00781	7.00		6.64	6.64	71.33
0.000197	0.00500	7.65		8.13	8.13	79.47
0.000077	0.00195	9.00		13.00	13.01	92.48
0.000038	0.000977	10.00		5.14	5.14	97.62
0.000019	0.000488	11.00		2.18	2.18	99.80
0.000015	0.000375	11.38		0.20	0.20	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.13	0.0045	0.114
10	3.46	0.0036	0.091
16	3.73	0.0030	0.075
25	4.08	0.0023	0.059
40	4.73	0.0015	0.038
50	5.37	0.0010	0.024
60	6.14	0.0006	0.014
75	7.29	0.0003	0.006
84	8.12	0.0001	0.004
90	8.74	0.0001	0.002
95	9.49	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.37	5.37	5.37
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.024	0.024	0.024
Mean, phi	4.93	5.92	5.74
Mean, in.	0.0013	0.0006	0.0007
Mean, mm	0.033	0.016	0.019
Sorting	3.045	2.194	2.061
Skewness	0.804	0.253	0.274
Kurtosis	0.297	0.451	0.812

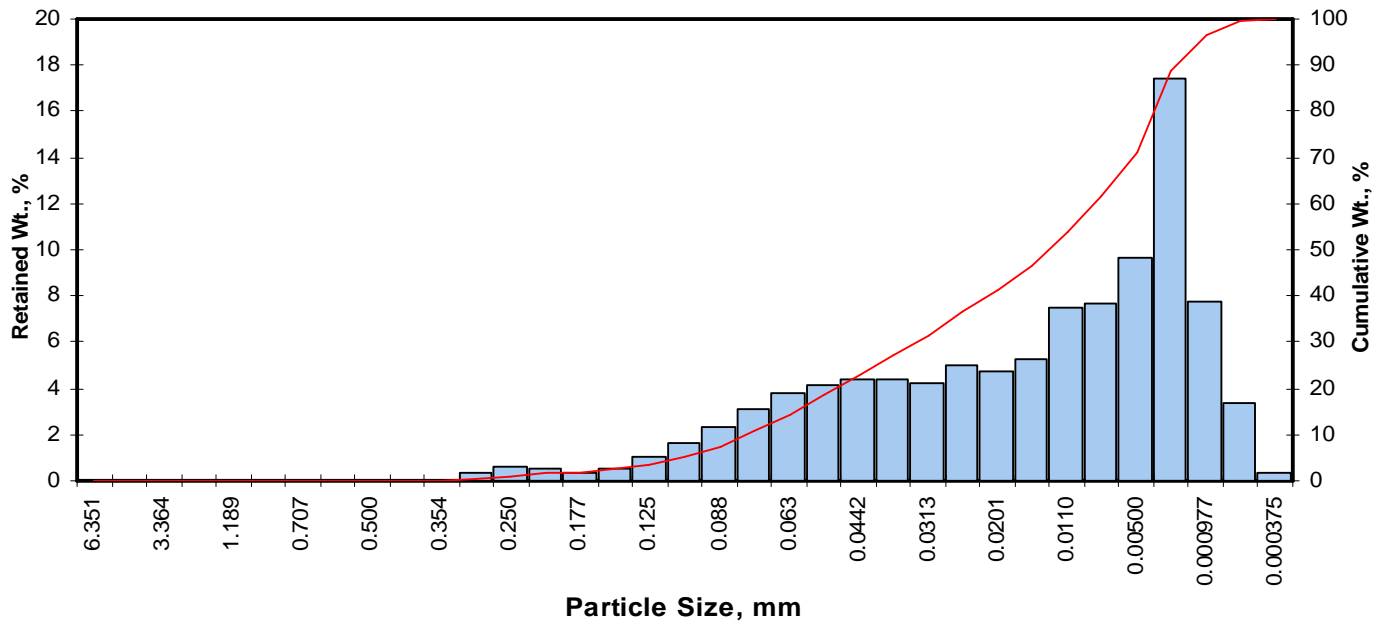
Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	16.46
Silt	>0.005 mm	63.01
Clay	<0.005 mm	20.53
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-113.0-113.5
 Depth, ft: 113.0-113.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.04	0.04	0.04
0.0117	0.297	1.75	50	0.35	0.35	0.39
0.0098	0.250	2.00	60	0.61	0.61	1.00
0.0083	0.210	2.25	70	0.54	0.54	1.54
0.0070	0.177	2.50	80	0.38	0.38	1.92
0.0059	0.149	2.75	100	0.52	0.52	2.44
0.0049	0.125	3.00	120	1.01	1.01	3.45
0.0041	0.105	3.25	140	1.65	1.65	5.10
0.0035	0.088	3.50	170	2.36	2.36	7.46
0.0029	0.074	3.75	200	3.12	3.12	10.58
0.0025	0.063	4.00	230	3.76	3.76	14.34
0.0021	0.053	4.25	270	4.15	4.15	18.49
0.00174	0.0442	4.50	325	4.37	4.37	22.86
0.00146	0.0372	4.75	400	4.37	4.37	27.23
0.00123	0.0313	5.00	450	4.21	4.21	31.44
0.000986	0.0250	5.32	500	5.00	5.00	36.44
0.000790	0.0201	5.64	635	4.73	4.73	41.17
0.000615	0.0156	6.00		5.25	5.25	46.42
0.000435	0.0110	6.50		7.50	7.50	53.92
0.000308	0.00781	7.00		7.64	7.64	61.56
0.000197	0.00500	7.65		9.67	9.67	71.23
0.000077	0.00195	9.00		17.40	17.40	88.63
0.000038	0.000977	10.00		7.74	7.74	96.37
0.000019	0.000488	11.00		3.32	3.32	99.69
0.000015	0.000375	11.38		0.31	0.31	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.24	0.0042	0.106
10	3.70	0.0030	0.077
16	4.10	0.0023	0.058
25	4.62	0.0016	0.041
40	5.56	0.0008	0.021
50	6.24	0.0005	0.013
60	6.90	0.0003	0.008
75	7.94	0.0002	0.004
84	8.64	0.0001	0.003
90	9.18	0.0001	0.002
95	9.82	0.0000	0.001

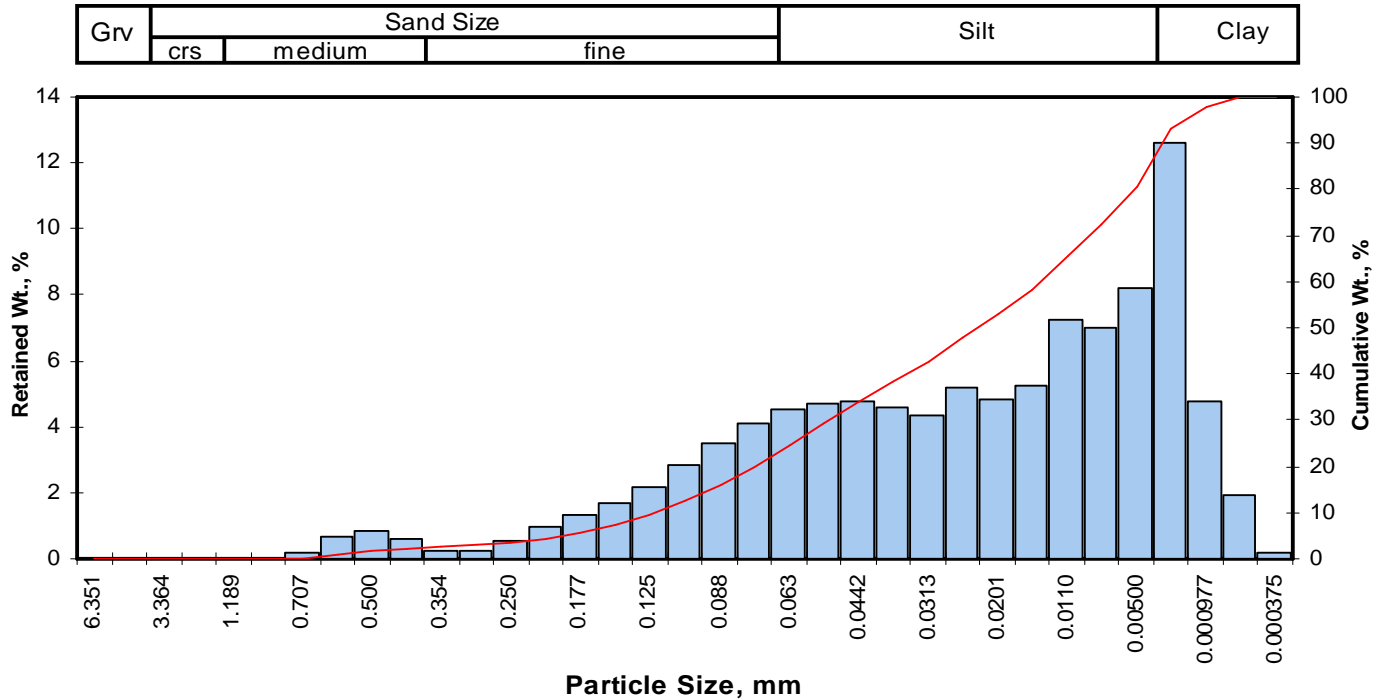
Measure	Trask	Inman	Folk-Ward
Median, phi	6.24	6.24	6.24
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.013	0.013	0.013
Mean, phi	5.48	6.37	6.33
Mean, in.	0.0009	0.0005	0.0005
Mean, mm	0.022	0.012	0.012
Sorting	3.156	2.270	2.133
Skewness	0.971	0.058	0.073
Kurtosis	0.243	0.451	0.814

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	10.58
Silt	>0.005 mm	60.65
Clay	<0.005 mm	28.77
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-122.0-122.5
 Depth, ft: 122.0-122.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.01	0.01	0.01
0.0278	0.707	0.50	25	0.19	0.19	0.20
0.0234	0.595	0.75	30	0.65	0.65	0.85
0.0197	0.500	1.00	35	0.86	0.86	1.71
0.0166	0.420	1.25	40	0.62	0.62	2.33
0.0139	0.354	1.50	45	0.26	0.26	2.59
0.0117	0.297	1.75	50	0.26	0.26	2.85
0.0098	0.250	2.00	60	0.52	0.52	3.37
0.0083	0.210	2.25	70	0.98	0.98	4.35
0.0070	0.177	2.50	80	1.33	1.33	5.68
0.0059	0.149	2.75	100	1.66	1.66	7.34
0.0049	0.125	3.00	120	2.16	2.16	9.50
0.0041	0.105	3.25	140	2.81	2.81	12.31
0.0035	0.088	3.50	170	3.48	3.48	15.79
0.0029	0.074	3.75	200	4.08	4.08	19.87
0.0025	0.063	4.00	230	4.53	4.53	24.40
0.0021	0.053	4.25	270	4.73	4.73	29.12
0.00174	0.0442	4.50	325	4.76	4.76	33.88
0.00146	0.0372	4.75	400	4.60	4.60	38.48
0.00123	0.0313	5.00	450	4.36	4.36	42.84
0.000986	0.0250	5.32	500	5.17	5.17	48.01
0.000790	0.0201	5.64	635	4.85	4.85	52.86
0.000615	0.0156	6.00		5.24	5.24	58.10
0.000435	0.0110	6.50		7.24	7.24	65.34
0.000308	0.00781	7.00		7.01	7.01	72.35
0.000197	0.00500	7.65		8.20	8.20	80.54
0.000077	0.00195	9.00		12.60	12.60	93.14
0.000038	0.000977	10.00		4.76	4.76	97.90
0.000019	0.000488	11.00		1.92	1.92	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.37	0.0076	0.193
10	3.04	0.0048	0.121
16	3.51	0.0034	0.088
25	4.03	0.0024	0.061
40	4.84	0.0014	0.035
50	5.45	0.0009	0.023
60	6.13	0.0006	0.014
75	7.21	0.0003	0.007
84	8.02	0.0002	0.004
90	8.66	0.0001	0.002
95	9.39	0.0001	0.001

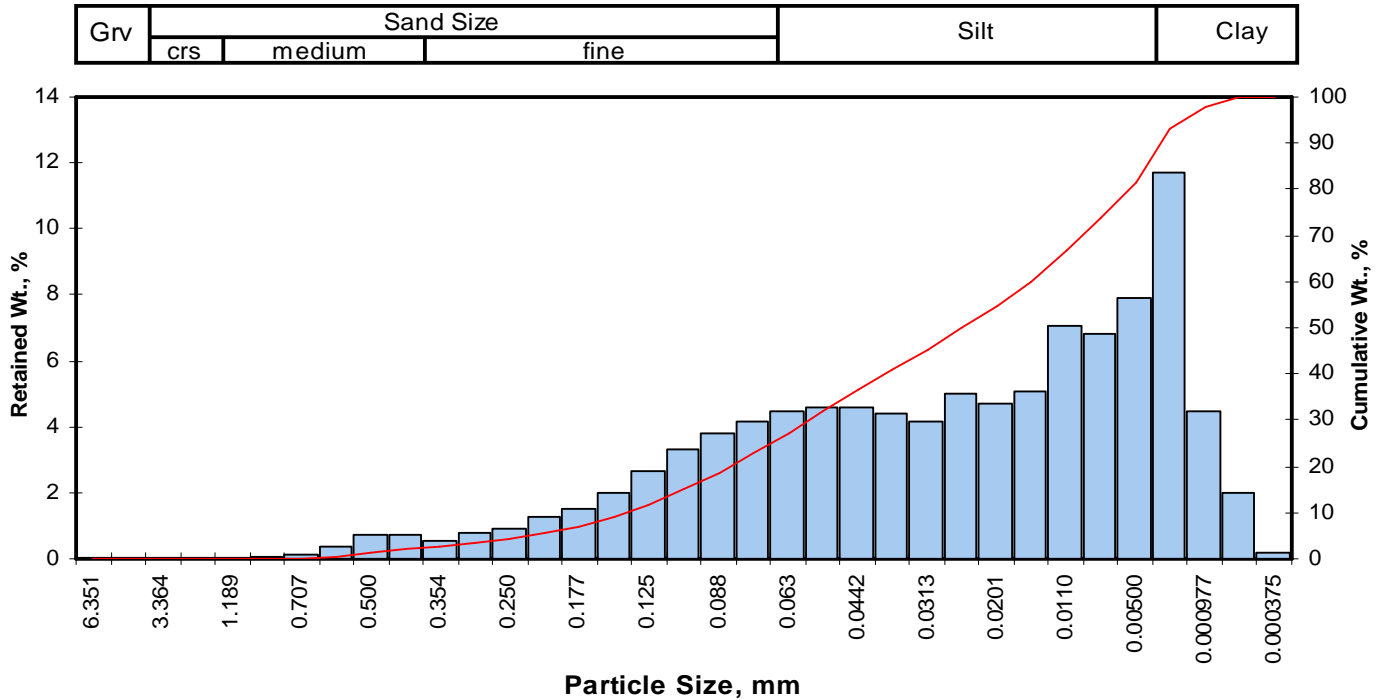
Measure	Trask	Inman	Folk-Ward
Median, phi	5.45	5.45	5.45
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.023	0.023	0.023
Mean, phi	4.88	5.76	5.66
Mean, in.	0.0013	0.0007	0.0008
Mean, mm	0.034	0.018	0.020
Sorting	3.007	2.252	2.189
Skewness	0.889	0.139	0.131
Kurtosis	0.229	0.558	0.905

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.33
Fine Sand	200	17.54
Silt	>0.005 mm	60.68
Clay	<0.005 mm	19.46
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-142.0-142.5
 Depth, ft: 142.0-142.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.03	0.03	0.03
0.0278	0.707	0.50	25	0.13	0.13	0.16
0.0234	0.595	0.75	30	0.39	0.39	0.55
0.0197	0.500	1.00	35	0.71	0.71	1.26
0.0166	0.420	1.25	40	0.73	0.73	1.99
0.0139	0.354	1.50	45	0.52	0.52	2.51
0.0117	0.297	1.75	50	0.76	0.76	3.27
0.0098	0.250	2.00	60	0.93	0.93	4.20
0.0083	0.210	2.25	70	1.24	1.24	5.44
0.0070	0.177	2.50	80	1.52	1.52	6.96
0.0059	0.149	2.75	100	2.00	2.00	8.97
0.0049	0.125	3.00	120	2.66	2.66	11.63
0.0041	0.105	3.25	140	3.29	3.29	14.92
0.0035	0.088	3.50	170	3.79	3.79	18.71
0.0029	0.074	3.75	200	4.19	4.19	22.90
0.0025	0.063	4.00	230	4.46	4.46	27.36
0.0021	0.053	4.25	270	4.57	4.57	31.93
0.00174	0.0442	4.50	325	4.56	4.56	36.49
0.00146	0.0372	4.75	400	4.41	4.41	40.90
0.00123	0.0313	5.00	450	4.19	4.19	45.10
0.000986	0.0250	5.32	500	4.99	4.99	50.09
0.000790	0.0201	5.64	635	4.69	4.69	54.78
0.000615	0.0156	6.00		5.07	5.07	59.85
0.000435	0.0110	6.50		7.03	7.03	66.88
0.000308	0.00781	7.00		6.81	6.81	73.69
0.000197	0.00500	7.65		7.90	7.90	81.60
0.000077	0.00195	9.00		11.70	11.70	93.30
0.000038	0.000977	10.00		4.48	4.48	97.78
0.000019	0.000488	11.00		2.02	2.02	99.80
0.000015	0.000375	11.38		0.20	0.20	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.16	0.0088	0.224
10	2.85	0.0055	0.139
16	3.32	0.0039	0.100
25	3.87	0.0027	0.069
40	4.70	0.0015	0.039
50	5.31	0.0010	0.025
60	6.01	0.0006	0.016
75	7.11	0.0003	0.007
84	7.92	0.0002	0.004
90	8.62	0.0001	0.003
95	9.38	0.0001	0.002

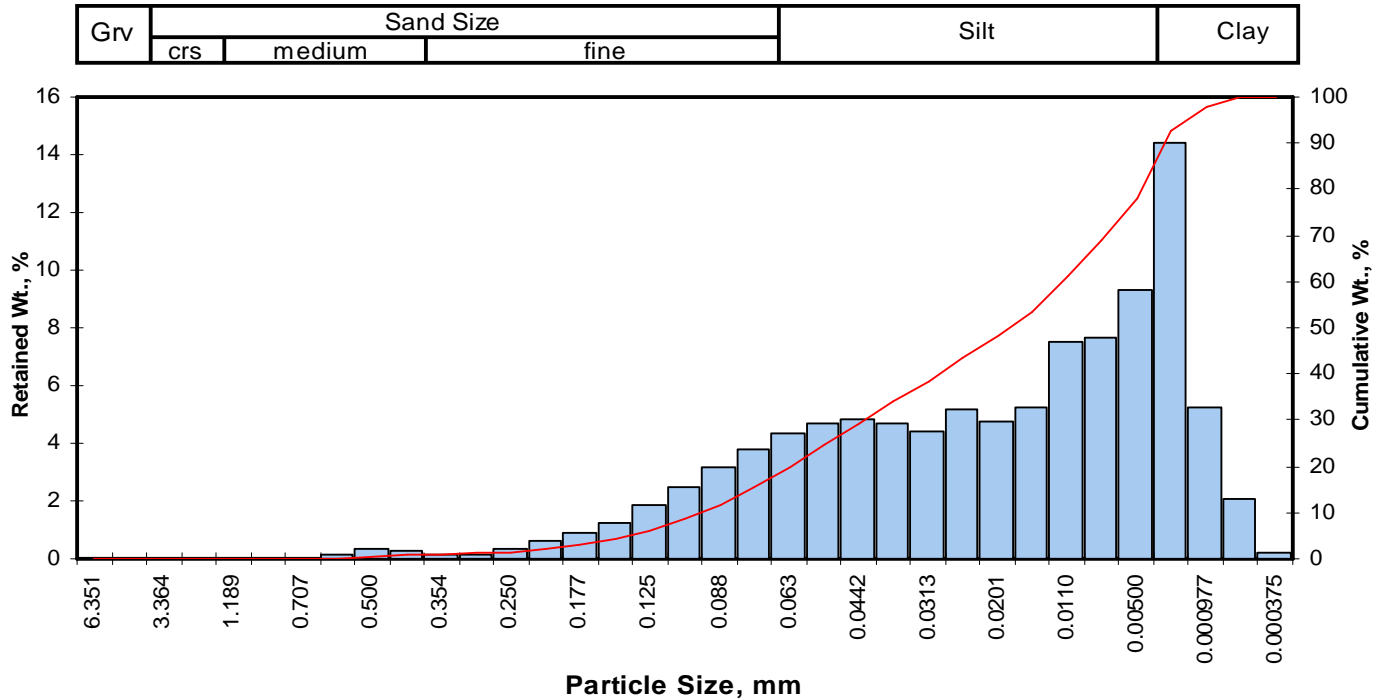
Measure	Trask	Inman	Folk-Ward
Median, phi	5.31	5.31	5.31
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.025	0.025	0.025
Mean, phi	4.72	5.62	5.52
Mean, in.	0.0015	0.0008	0.0009
Mean, mm	0.038	0.020	0.022
Sorting	3.073	2.301	2.244
Skewness	0.887	0.134	0.130
Kurtosis	0.224	0.569	0.913

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.99
Fine Sand	200	20.91
Silt	>0.005 mm	58.70
Clay	<0.005 mm	18.40
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI24-147.7-148.0
 Depth, ft: 147.7-148.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.01	0.01	0.01
0.0234	0.595	0.75	30	0.13	0.13	0.14
0.0197	0.500	1.00	35	0.35	0.35	0.49
0.0166	0.420	1.25	40	0.31	0.31	0.80
0.0139	0.354	1.50	45	0.13	0.13	0.93
0.0117	0.297	1.75	50	0.16	0.16	1.09
0.0098	0.250	2.00	60	0.36	0.36	1.45
0.0083	0.210	2.25	70	0.64	0.64	2.09
0.0070	0.177	2.50	80	0.88	0.88	2.97
0.0059	0.149	2.75	100	1.27	1.27	4.24
0.0049	0.125	3.00	120	1.85	1.85	6.09
0.0041	0.105	3.25	140	2.50	2.50	8.59
0.0035	0.088	3.50	170	3.14	3.14	11.73
0.0029	0.074	3.75	200	3.77	3.77	15.50
0.0025	0.063	4.00	230	4.32	4.32	19.82
0.0021	0.053	4.25	270	4.67	4.67	24.49
0.00174	0.0442	4.50	325	4.82	4.82	29.31
0.00146	0.0372	4.75	400	4.71	4.71	34.02
0.00123	0.0313	5.00	450	4.43	4.43	38.45
0.000986	0.0250	5.32	500	5.17	5.17	43.62
0.000790	0.0201	5.64	635	4.79	4.79	48.41
0.000615	0.0156	6.00		5.24	5.24	53.65
0.000435	0.0110	6.50		7.53	7.53	61.17
0.000308	0.00781	7.00		7.65	7.65	68.82
0.000197	0.00500	7.65		9.28	9.28	78.10
0.000077	0.00195	9.00		14.40	14.40	92.50
0.000038	0.000977	10.00		5.25	5.25	97.75
0.000019	0.000488	11.00		2.06	2.06	99.81
0.000015	0.000375	11.38		0.19	0.19	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.85	0.0055	0.138
10	3.36	0.0038	0.097
16	3.78	0.0029	0.073
25	4.28	0.0020	0.052
40	5.10	0.0012	0.029
50	5.75	0.0007	0.019
60	6.42	0.0005	0.012
75	7.43	0.0002	0.006
84	8.20	0.0001	0.003
90	8.76	0.0001	0.002
95	9.48	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.75	5.75	5.75
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.019	0.019	0.019
Mean, phi	5.12	5.99	5.91
Mean, in.	0.0011	0.0006	0.0007
Mean, mm	0.029	0.016	0.017
Sorting	2.982	2.211	2.109
Skewness	0.931	0.109	0.117
Kurtosis	0.241	0.498	0.861

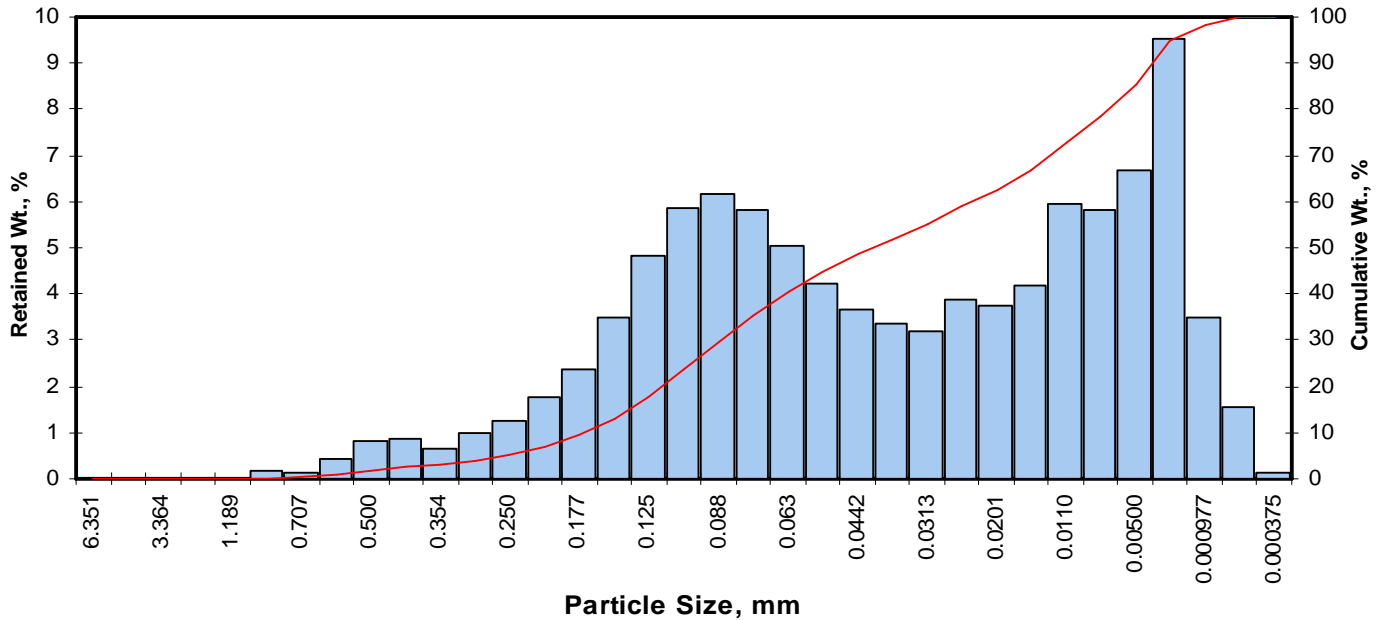
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.80
Fine Sand	200	14.70
Silt	>0.005 mm	62.60
Clay	<0.005 mm	21.90
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI21-76.0-76.3
 Depth, ft: 76.0-76.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.01	0.01	0.01
0.0331	0.841	0.25	20	0.17	0.17	0.18
0.0278	0.707	0.50	25	0.15	0.15	0.33
0.0234	0.595	0.75	30	0.42	0.42	0.75
0.0197	0.500	1.00	35	0.80	0.80	1.55
0.0166	0.420	1.25	40	0.85	0.85	2.40
0.0139	0.354	1.50	45	0.63	0.63	3.03
0.0117	0.297	1.75	50	0.99	0.99	4.02
0.0098	0.250	2.00	60	1.26	1.26	5.28
0.0083	0.210	2.25	70	1.76	1.76	7.04
0.0070	0.177	2.50	80	2.38	2.38	9.42
0.0059	0.149	2.75	100	3.48	3.48	12.90
0.0049	0.125	3.00	120	4.82	4.82	17.72
0.0041	0.105	3.25	140	5.85	5.85	23.56
0.0035	0.088	3.50	170	6.17	6.17	29.73
0.0029	0.074	3.75	200	5.80	5.80	35.53
0.0025	0.063	4.00	230	5.04	5.04	40.57
0.0021	0.053	4.25	270	4.24	4.24	44.81
0.00174	0.0442	4.50	325	3.68	3.68	48.49
0.00146	0.0372	4.75	400	3.37	3.37	51.86
0.00123	0.0313	5.00	450	3.19	3.19	55.05
0.000986	0.0250	5.32	500	3.87	3.87	58.92
0.000790	0.0201	5.64	635	3.74	3.74	62.66
0.000615	0.0156	6.00		4.17	4.17	66.83
0.000435	0.0110	6.50		5.96	5.96	72.79
0.000308	0.00781	7.00		5.81	5.81	78.60
0.000197	0.00500	7.65		6.66	6.66	85.26
0.000077	0.00195	9.00		9.52	9.52	94.78
0.000038	0.000977	10.00		3.51	3.51	98.29
0.000019	0.000488	11.00		1.56	1.56	99.85
0.000015	0.000375	11.38		0.15	0.15	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.95	0.0102	0.260
10	2.54	0.0068	0.172
16	2.91	0.0052	0.133
25	3.31	0.0040	0.101
40	3.97	0.0025	0.064
50	4.61	0.0016	0.041
60	5.41	0.0009	0.023
75	6.69	0.0004	0.010
84	7.52	0.0002	0.005
90	8.32	0.0001	0.003
95	9.06	0.0001	0.002

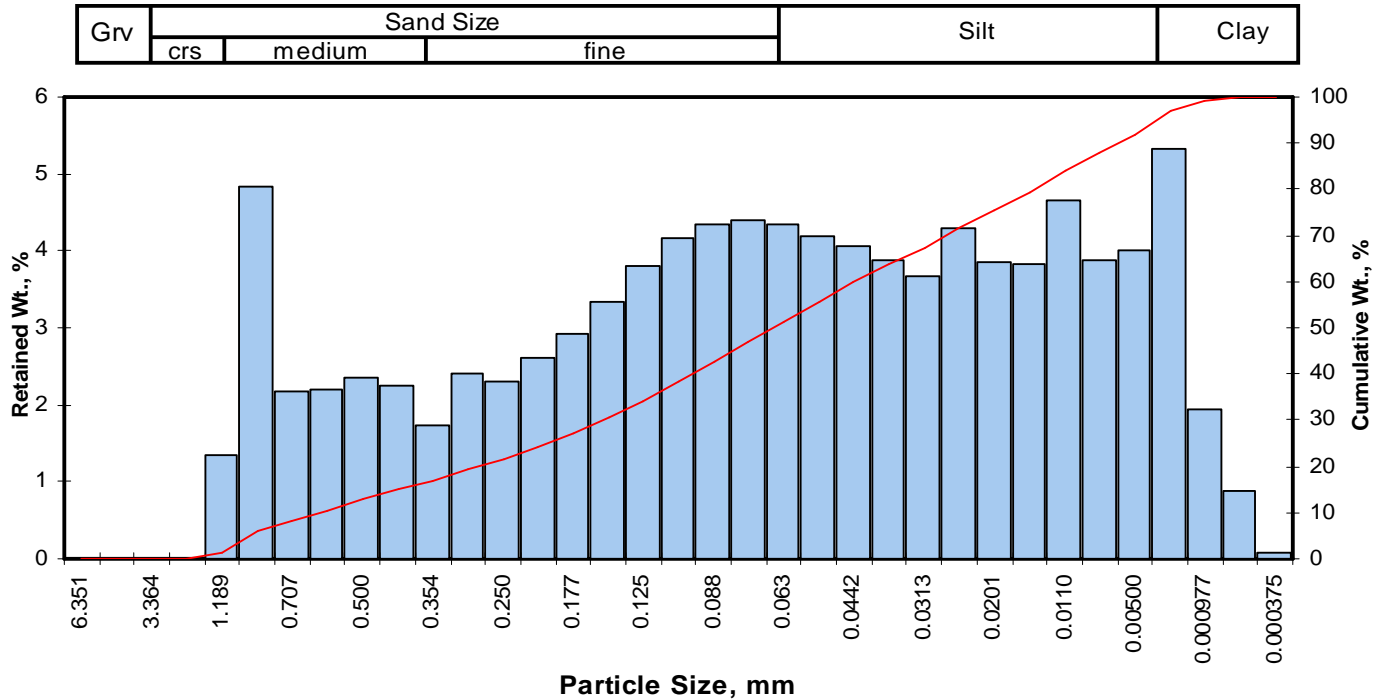
Measure	Trask	Inman	Folk-Ward
Median, phi	4.61	4.61	4.61
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.041	0.041	0.041
Mean, phi	4.18	5.22	5.02
Mean, in.	0.0022	0.0011	0.0012
Mean, mm	0.055	0.027	0.031
Sorting	3.229	2.306	2.231
Skewness	0.765	0.262	0.257
Kurtosis	0.271	0.543	0.863

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.40
Fine Sand	200	33.14
Silt	>0.005 mm	49.73
Clay	<0.005 mm	14.74
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-31.7-32.0
 Depth, ft: 31.7-32.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	1.35	1.35	1.35
0.0331	0.841	0.25	20	4.83	4.83	6.18
0.0278	0.707	0.50	25	2.16	2.16	8.34
0.0234	0.595	0.75	30	2.20	2.20	10.54
0.0197	0.500	1.00	35	2.35	2.35	12.89
0.0166	0.420	1.25	40	2.25	2.25	15.14
0.0139	0.354	1.50	45	1.74	1.74	16.88
0.0117	0.297	1.75	50	2.40	2.40	19.28
0.0098	0.250	2.00	60	2.30	2.30	21.58
0.0083	0.210	2.25	70	2.60	2.60	24.18
0.0070	0.177	2.50	80	2.91	2.91	27.09
0.0059	0.149	2.75	100	3.34	3.34	30.43
0.0049	0.125	3.00	120	3.80	3.80	34.23
0.0041	0.105	3.25	140	4.16	4.16	38.39
0.0035	0.088	3.50	170	4.35	4.35	42.74
0.0029	0.074	3.75	200	4.40	4.40	47.14
0.0025	0.063	4.00	230	4.34	4.34	51.48
0.0021	0.053	4.25	270	4.19	4.19	55.67
0.00174	0.0442	4.50	325	4.05	4.05	59.72
0.00146	0.0372	4.75	400	3.87	3.87	63.59
0.00123	0.0313	5.00	450	3.66	3.66	67.25
0.000986	0.0250	5.32	500	4.30	4.30	71.55
0.000790	0.0201	5.64	635	3.86	3.86	75.41
0.000615	0.0156	6.00		3.84	3.84	79.25
0.000435	0.0110	6.50		4.65	4.65	83.90
0.000308	0.00781	7.00		3.89	3.89	87.79
0.000197	0.00500	7.65		4.00	4.00	91.79
0.000077	0.00195	9.00		5.32	5.32	97.11
0.000038	0.000977	10.00		1.94	1.94	99.05
0.000019	0.000488	11.00		0.87	0.87	99.92
0.000015	0.000375	11.38		0.08	0.08	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.13	0.0360	0.915
10	0.69	0.0244	0.620
16	1.37	0.0152	0.386
25	2.32	0.0079	0.200
40	3.34	0.0039	0.099
50	3.91	0.0026	0.066
60	4.52	0.0017	0.044
75	5.61	0.0008	0.021
84	6.51	0.0004	0.011
90	7.36	0.0002	0.006
95	8.46	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	3.91	3.91	3.91
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.066	0.066	0.066
Mean, phi	3.18	3.94	3.93
Mean, in.	0.0043	0.0026	0.0026
Mean, mm	0.110	0.065	0.065
Sorting	3.123	2.570	2.548
Skewness	0.967	0.011	0.051
Kurtosis	0.146	0.622	1.040

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	15.14
Fine Sand	200	32.00
Silt	>0.005 mm	44.65
Clay	<0.005 mm	8.21
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3B

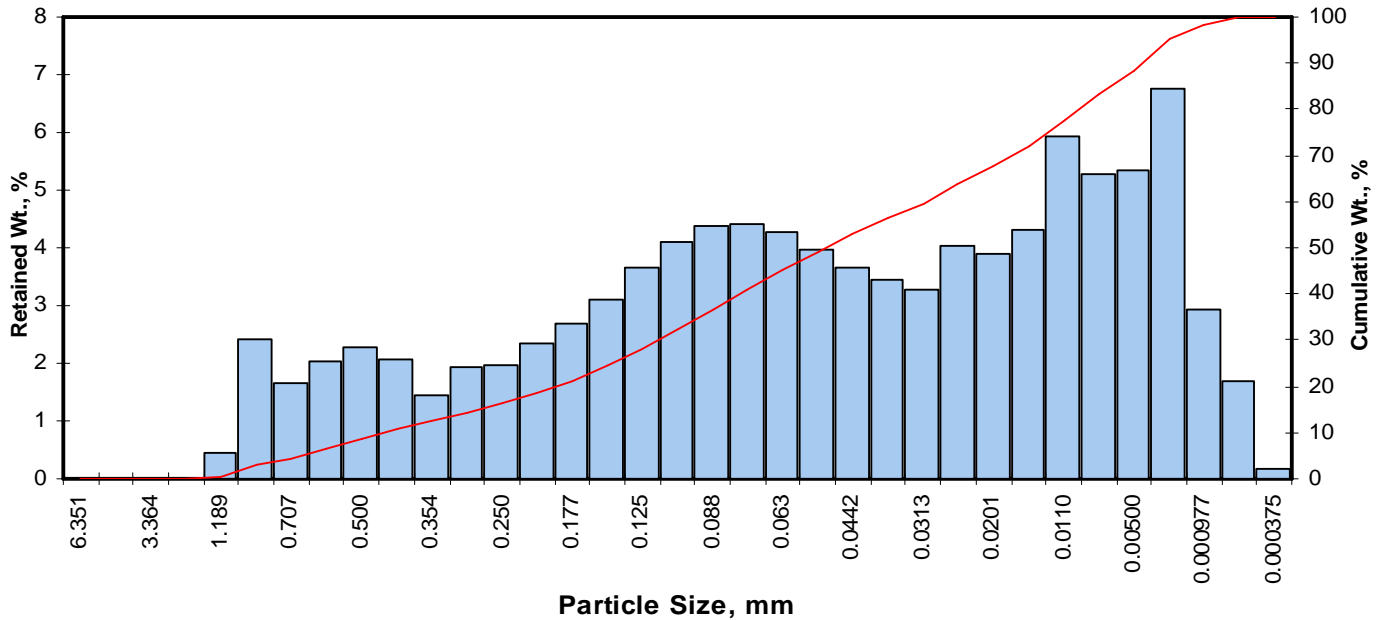
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI25-42.3-42.8	42.3-42.8	Fine sand	0.051	0.00	0.00	10.88	30.08	47.47	11.56	59.04
PT-RI25-48.5-48.8	48.5-48.8	Fine sand	0.065	0.00	0.00	11.06	35.82	44.33	8.79	53.12
PT-RI25-65.5-65.8	65.5-65.8	Silt	0.029	0.00	0.00	2.02	18.71	62.68	16.58	79.26
PT-RI25-68.0-68.3	68.0-68.3	Silt	0.010	0.00	0.00	0.00	12.79	54.77	32.44	87.21
PT-RI25-78.2-78.5	78.2-78.5	Silt	0.041	0.00	0.00	2.41	31.33	52.97	13.29	66.26
PT-RI25-83.5-84.0	83.5-83.7	Silt	0.035	0.00	0.00	5.44	27.06	51.26	16.24	67.50
PT-RI25-93.1-93.6	93.1-93.3	Silt	0.026	0.00	0.00	3.37	23.22	53.33	20.08	73.41
PT-RI25-113.5-114.0	113.5-113.7	Medium sand	0.493	0.00	0.00	56.68	10.46	22.73	10.13	32.86
PT-RI25-122.0-122.4	122.0-122.2	Fine sand	0.080	0.00	0.00	36.64	14.63	35.52	13.20	48.73

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-42.3-42.8
 Depth, ft: 42.3-42.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.44	0.44	0.44
0.0331	0.841	0.25	20	2.41	2.41	2.85
0.0278	0.707	0.50	25	1.67	1.67	4.52
0.0234	0.595	0.75	30	2.02	2.02	6.54
0.0197	0.500	1.00	35	2.27	2.27	8.81
0.0166	0.420	1.25	40	2.07	2.07	10.88
0.0139	0.354	1.50	45	1.46	1.46	12.34
0.0117	0.297	1.75	50	1.93	1.93	14.27
0.0098	0.250	2.00	60	1.95	1.95	16.22
0.0083	0.210	2.25	70	2.35	2.35	18.57
0.0070	0.177	2.50	80	2.68	2.68	21.25
0.0059	0.149	2.75	100	3.12	3.12	24.37
0.0049	0.125	3.00	120	3.66	3.66	28.03
0.0041	0.105	3.25	140	4.12	4.12	32.15
0.0035	0.088	3.50	170	4.38	4.38	36.53
0.0029	0.074	3.75	200	4.43	4.43	40.96
0.0025	0.063	4.00	230	4.28	4.28	45.24
0.0021	0.053	4.25	270	3.98	3.98	49.22
0.00174	0.0442	4.50	325	3.67	3.67	52.90
0.00146	0.0372	4.75	400	3.44	3.44	56.34
0.00123	0.0313	5.00	450	3.29	3.29	59.63
0.000986	0.0250	5.32	500	4.02	4.02	63.65
0.000790	0.0201	5.64	635	3.91	3.91	67.56
0.000615	0.0156	6.00		4.32	4.32	71.88
0.000435	0.0110	6.50		5.92	5.92	77.80
0.000308	0.00781	7.00		5.28	5.28	83.08
0.000197	0.00500	7.65		5.36	5.36	88.44
0.000077	0.00195	9.00		6.76	6.76	95.20
0.000038	0.000977	10.00		2.94	2.94	98.14
0.000019	0.000488	11.00		1.68	1.68	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.56	0.0267	0.679
10	1.14	0.0178	0.453
16	1.97	0.0100	0.255
25	2.79	0.0057	0.144
40	3.70	0.0030	0.077
50	4.30	0.0020	0.051
60	5.03	0.0012	0.031
75	6.26	0.0005	0.013
84	7.11	0.0003	0.007
90	7.96	0.0002	0.004
95	8.96	0.0001	0.002

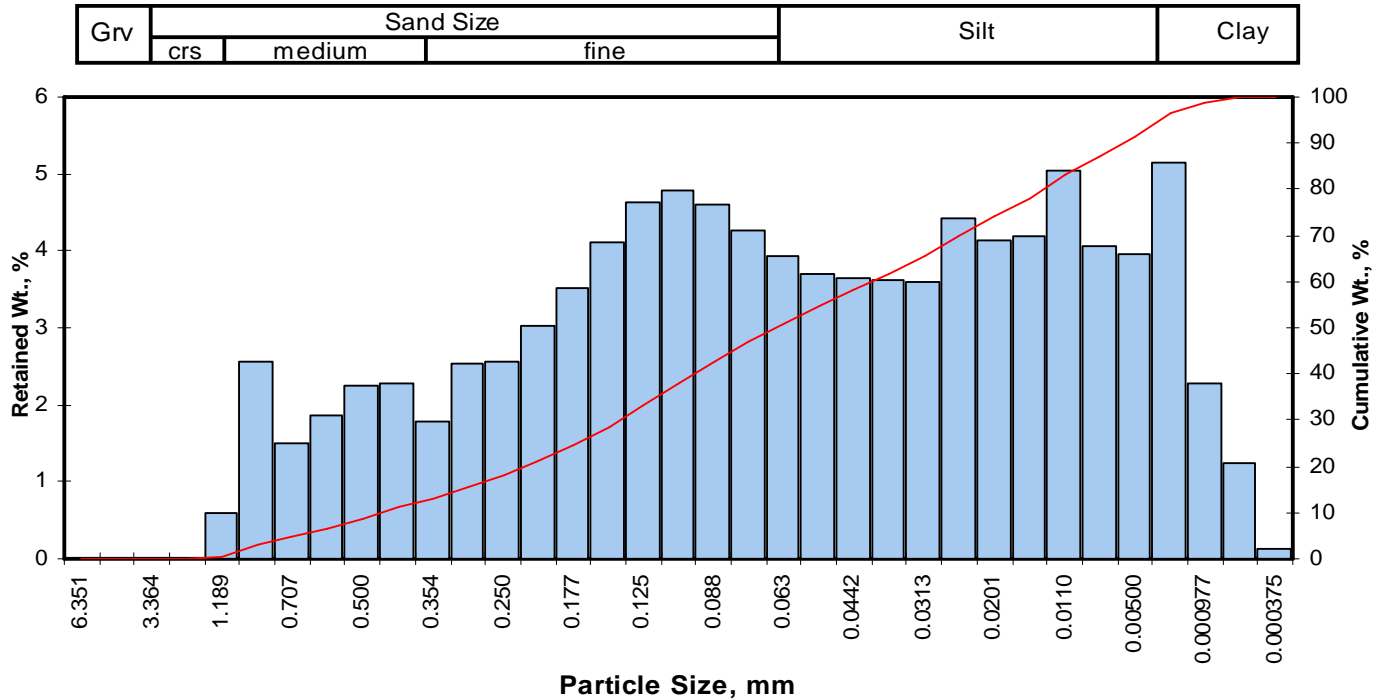
Measure	Trask	Inman	Folk-Ward
Median, phi	4.30	4.30	4.30
Median, in.	0.0020	0.0020	0.0020
Median, mm	0.051	0.051	0.051
Mean, phi	3.67	4.54	4.46
Mean, in.	0.0031	0.0017	0.0018
Mean, mm	0.079	0.043	0.045
Sorting	3.330	2.570	2.558
Skewness	0.855	0.093	0.101
Kurtosis	0.146	0.635	0.992

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	10.88
Fine Sand	200	30.08
Silt	>0.005 mm	47.47
Clay	<0.005 mm	11.56
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-48.5-48.8
 Depth, ft: 48.5-48.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.60	0.60	0.60
0.0331	0.841	0.25	20	2.55	2.55	3.15
0.0278	0.707	0.50	25	1.51	1.51	4.66
0.0234	0.595	0.75	30	1.87	1.87	6.53
0.0197	0.500	1.00	35	2.26	2.26	8.79
0.0166	0.420	1.25	40	2.27	2.27	11.06
0.0139	0.354	1.50	45	1.78	1.78	12.84
0.0117	0.297	1.75	50	2.54	2.54	15.38
0.0098	0.250	2.00	60	2.56	2.56	17.94
0.0083	0.210	2.25	70	3.03	3.03	20.97
0.0070	0.177	2.50	80	3.51	3.51	24.48
0.0059	0.149	2.75	100	4.11	4.11	28.59
0.0049	0.125	3.00	120	4.62	4.62	33.21
0.0041	0.105	3.25	140	4.79	4.79	38.00
0.0035	0.088	3.50	170	4.61	4.61	42.61
0.0029	0.074	3.75	200	4.27	4.27	46.88
0.0025	0.063	4.00	230	3.94	3.94	50.82
0.0021	0.053	4.25	270	3.71	3.71	54.53
0.00174	0.0442	4.50	325	3.64	3.64	58.17
0.00146	0.0372	4.75	400	3.63	3.63	61.80
0.00123	0.0313	5.00	450	3.60	3.60	65.40
0.000986	0.0250	5.32	500	4.43	4.43	69.83
0.000790	0.0201	5.64	635	4.13	4.13	73.96
0.000615	0.0156	6.00		4.19	4.19	78.15
0.000435	0.0110	6.50		5.04	5.04	83.19
0.000308	0.00781	7.00		4.06	4.06	87.25
0.000197	0.00500	7.65		3.96	3.96	91.21
0.000077	0.00195	9.00		5.14	5.14	96.35
0.000038	0.000977	10.00		2.27	2.27	98.62
0.000019	0.000488	11.00		1.25	1.25	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.55	0.0270	0.685
10	1.13	0.0179	0.456
16	1.81	0.0112	0.285
25	2.53	0.0068	0.173
40	3.36	0.0038	0.097
50	3.95	0.0026	0.065
60	4.63	0.0016	0.040
75	5.73	0.0007	0.019
84	6.60	0.0004	0.010
90	7.45	0.0002	0.006
95	8.64	0.0001	0.002

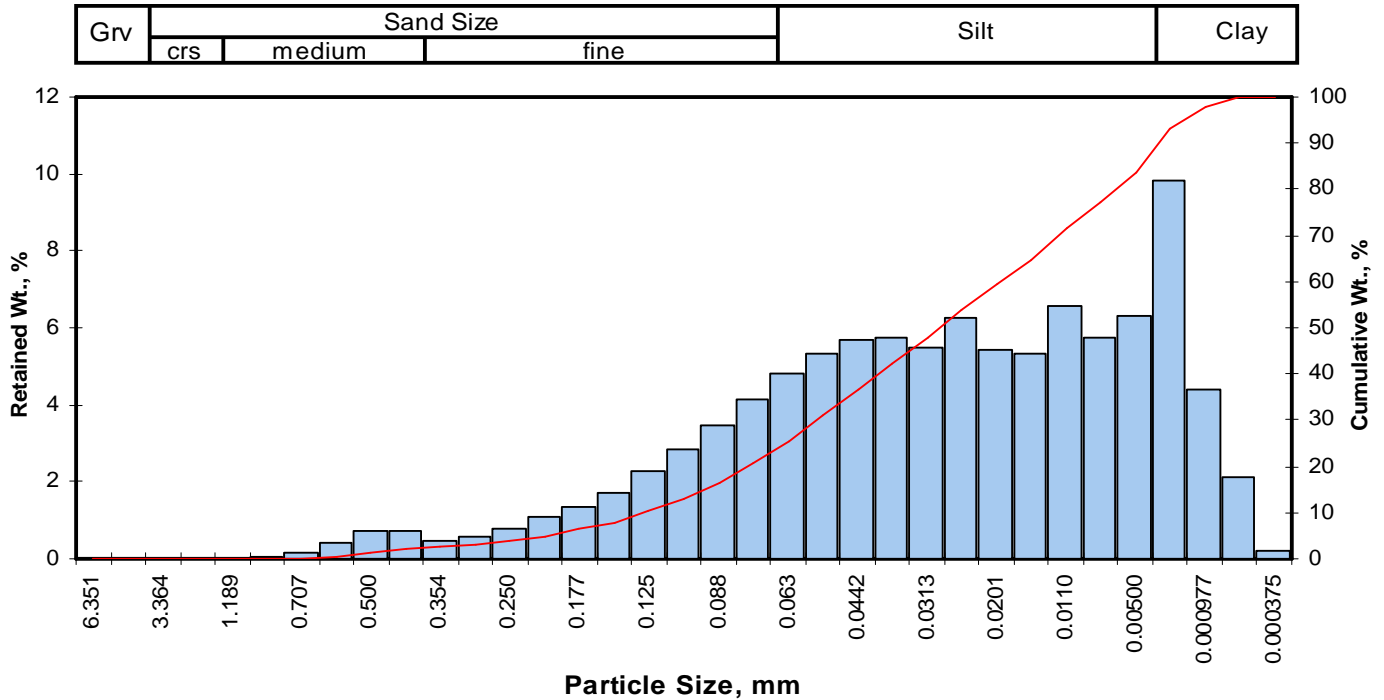
Measure	Trask	Inman	Folk-Ward
Median, phi	3.95	3.95	3.95
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.065	0.065	0.065
Mean, phi	3.38	4.21	4.12
Mean, in.	0.0038	0.0021	0.0023
Mean, mm	0.096	0.054	0.058
Sorting	3.029	2.395	2.424
Skewness	0.881	0.107	0.134
Kurtosis	0.171	0.691	1.038

Grain Size Description	Fine sand
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	11.06
Fine Sand	200	35.82
Silt	>0.005 mm	44.33
Clay	<0.005 mm	8.79
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-65.5-65.8
 Depth, ft: 65.5-65.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.04	0.04	0.04
0.0278	0.707	0.50	25	0.15	0.15	0.19
0.0234	0.595	0.75	30	0.40	0.40	0.59
0.0197	0.500	1.00	35	0.72	0.72	1.31
0.0166	0.420	1.25	40	0.71	0.71	2.02
0.0139	0.354	1.50	45	0.44	0.44	2.46
0.0117	0.297	1.75	50	0.59	0.59	3.05
0.0098	0.250	2.00	60	0.76	0.76	3.81
0.0083	0.210	2.25	70	1.09	1.09	4.90
0.0070	0.177	2.50	80	1.35	1.35	6.25
0.0059	0.149	2.75	100	1.72	1.72	7.97
0.0049	0.125	3.00	120	2.25	2.25	10.22
0.0041	0.105	3.25	140	2.86	2.86	13.08
0.0035	0.088	3.50	170	3.49	3.49	16.57
0.0029	0.074	3.75	200	4.16	4.16	20.74
0.0025	0.063	4.00	230	4.82	4.82	25.56
0.0021	0.053	4.25	270	5.34	5.34	30.90
0.00174	0.0442	4.50	325	5.70	5.70	36.60
0.00146	0.0372	4.75	400	5.73	5.73	42.33
0.00123	0.0313	5.00	450	5.46	5.46	47.79
0.000986	0.0250	5.32	500	6.26	6.26	54.05
0.000790	0.0201	5.64	635	5.43	5.43	59.48
0.000615	0.0156	6.00		5.34	5.34	64.82
0.000435	0.0110	6.50		6.56	6.56	71.38
0.000308	0.00781	7.00		5.73	5.73	77.12
0.000197	0.00500	7.65		6.30	6.30	83.42
0.000077	0.00195	9.00		9.83	9.83	93.25
0.000038	0.000977	10.00		4.41	4.41	97.66
0.000019	0.000488	11.00		2.13	2.13	99.79
0.000015	0.000375	11.38		0.21	0.21	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.27	0.0082	0.208
10	2.98	0.0050	0.127
16	3.46	0.0036	0.091
25	3.97	0.0025	0.064
40	4.65	0.0016	0.040
50	5.11	0.0011	0.029
60	5.67	0.0008	0.020
75	6.82	0.0003	0.009
84	7.73	0.0002	0.005
90	8.55	0.0001	0.003
95	9.40	0.0001	0.001

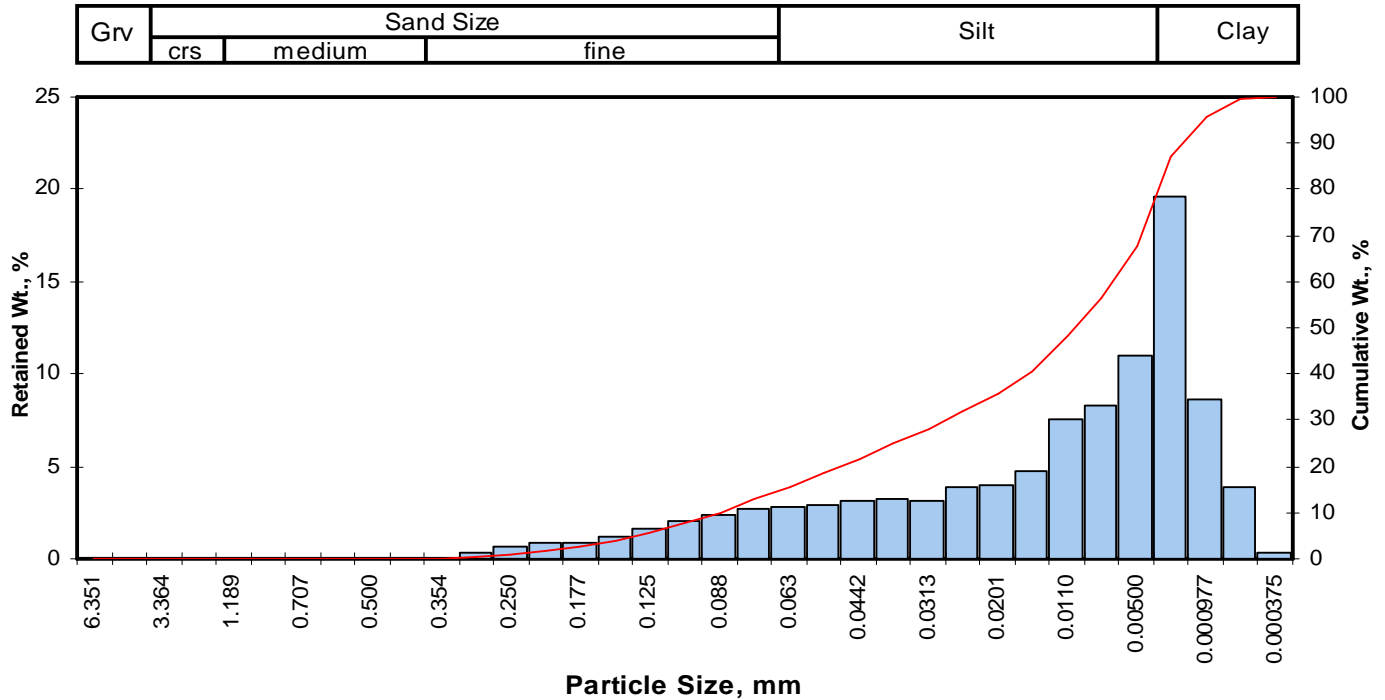
Measure	Trask	Inman	Folk-Ward
Median, phi	5.11	5.11	5.11
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.029	0.029	0.029
Mean, phi	4.78	5.59	5.43
Mean, in.	0.0014	0.0008	0.0009
Mean, mm	0.036	0.021	0.023
Sorting	2.680	2.133	2.147
Skewness	0.823	0.225	0.213
Kurtosis	0.220	0.671	1.027

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.02
Fine Sand	200	18.71
Silt	>0.005 mm	62.68
Clay	<0.005 mm	16.58
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-68.0-68.3
 Depth, ft: 68.0-68.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.04	0.04	0.04
0.0117	0.297	1.75	50	0.36	0.36	0.40
0.0098	0.250	2.00	60	0.68	0.68	1.08
0.0083	0.210	2.25	70	0.81	0.81	1.89
0.0070	0.177	2.50	80	0.88	0.88	2.77
0.0059	0.149	2.75	100	1.19	1.19	3.96
0.0049	0.125	3.00	120	1.65	1.65	5.61
0.0041	0.105	3.25	140	2.07	2.07	7.68
0.0035	0.088	3.50	170	2.42	2.42	10.10
0.0029	0.074	3.75	200	2.69	2.69	12.79
0.0025	0.063	4.00	230	2.85	2.85	15.64
0.0021	0.053	4.25	270	2.95	2.95	18.59
0.00174	0.0442	4.50	325	3.10	3.10	21.69
0.00146	0.0372	4.75	400	3.18	3.18	24.87
0.00123	0.0313	5.00	450	3.16	3.16	28.03
0.000986	0.0250	5.32	500	3.92	3.92	31.95
0.000790	0.0201	5.64	635	3.99	3.99	35.94
0.000615	0.0156	6.00		4.78	4.78	40.72
0.000435	0.0110	6.50		7.50	7.50	48.22
0.000308	0.00781	7.00		8.33	8.33	56.55
0.000197	0.00500	7.65		11.00	11.00	67.56
0.000077	0.00195	9.00		19.60	19.60	87.16
0.000038	0.000977	10.00		8.59	8.59	95.75
0.000019	0.000488	11.00		3.88	3.88	99.63
0.000015	0.000375	11.38		0.37	0.37	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.91	0.0052	0.133
10	3.49	0.0035	0.089
16	4.03	0.0024	0.061
25	4.76	0.0015	0.037
40	5.95	0.0006	0.016
50	6.61	0.0004	0.010
60	7.20	0.0003	0.007
75	8.16	0.0001	0.003
84	8.78	0.0001	0.002
90	9.33	0.0001	0.002
95	9.91	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.61	6.61	6.61
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.010	0.010	0.010
Mean, phi	5.63	6.41	6.47
Mean, in.	0.0008	0.0005	0.0004
Mean, mm	0.020	0.012	0.011
Sorting	3.248	2.376	2.249
Skewness	1.107	-0.084	-0.070
Kurtosis	0.191	0.474	0.845

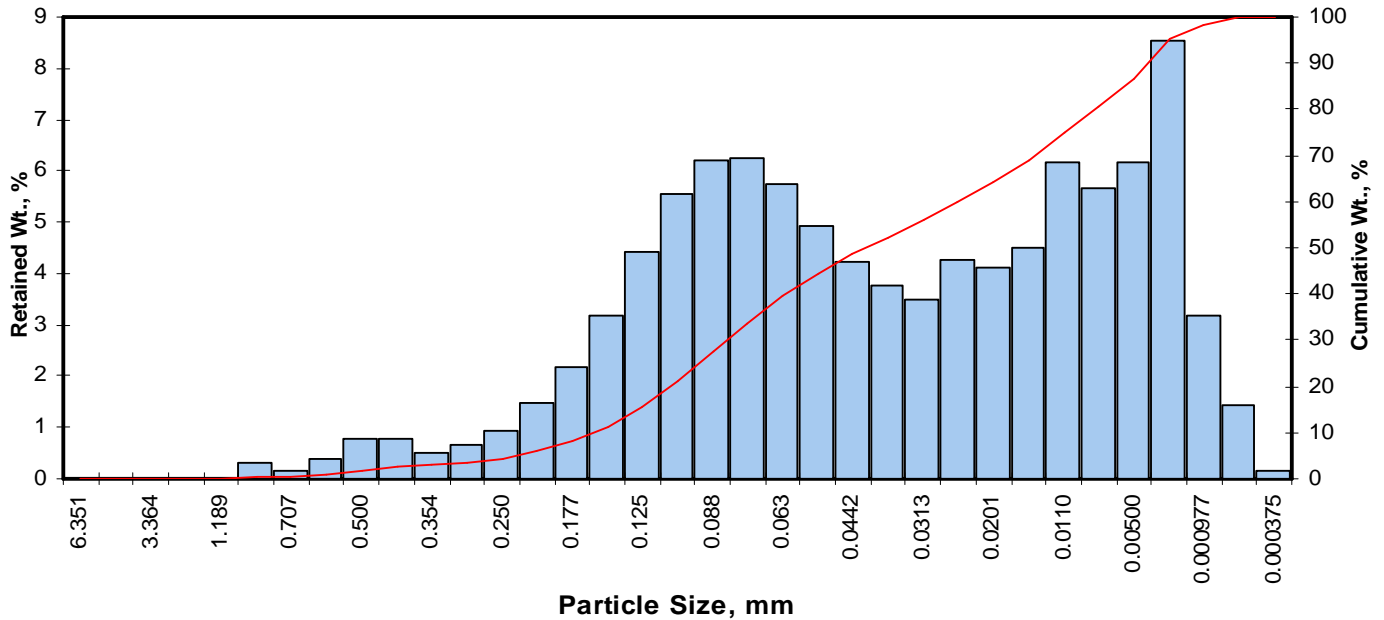
Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	12.79
Silt	>0.005 mm	54.77
Clay	<0.005 mm	32.44
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-78.2-78.5
 Depth, ft: 78.2-78.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.02	0.02	0.02
0.0331	0.841	0.25	20	0.30	0.30	0.32
0.0278	0.707	0.50	25	0.15	0.15	0.47
0.0234	0.595	0.75	30	0.40	0.40	0.87
0.0197	0.500	1.00	35	0.77	0.77	1.64
0.0166	0.420	1.25	40	0.77	0.77	2.41
0.0139	0.354	1.50	45	0.50	0.50	2.91
0.0117	0.297	1.75	50	0.67	0.67	3.58
0.0098	0.250	2.00	60	0.92	0.92	4.50
0.0083	0.210	2.25	70	1.48	1.48	5.98
0.0070	0.177	2.50	80	2.17	2.17	8.15
0.0059	0.149	2.75	100	3.17	3.17	11.32
0.0049	0.125	3.00	120	4.41	4.41	15.72
0.0041	0.105	3.25	140	5.55	5.55	21.27
0.0035	0.088	3.50	170	6.22	6.22	27.49
0.0029	0.074	3.75	200	6.25	6.25	33.74
0.0025	0.063	4.00	230	5.73	5.73	39.47
0.0021	0.053	4.25	270	4.93	4.93	44.40
0.00174	0.0442	4.50	325	4.22	4.22	48.62
0.00146	0.0372	4.75	400	3.75	3.75	52.37
0.00123	0.0313	5.00	450	3.49	3.49	55.86
0.000986	0.0250	5.32	500	4.25	4.25	60.11
0.000790	0.0201	5.64	635	4.13	4.13	64.24
0.000615	0.0156	6.00		4.52	4.52	68.76
0.000435	0.0110	6.50		6.16	6.16	74.91
0.000308	0.00781	7.00		5.65	5.65	80.56
0.000197	0.00500	7.65		6.15	6.15	86.71
0.000077	0.00195	9.00		8.54	8.54	95.25
0.000038	0.000977	10.00		3.19	3.19	98.44
0.000019	0.000488	11.00		1.42	1.42	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.09	0.0093	0.236
10	2.65	0.0063	0.160
16	3.01	0.0049	0.124
25	3.40	0.0037	0.095
40	4.03	0.0024	0.061
50	4.59	0.0016	0.041
60	5.31	0.0010	0.025
75	6.51	0.0004	0.011
84	7.36	0.0002	0.006
90	8.17	0.0001	0.003
95	8.96	0.0001	0.002

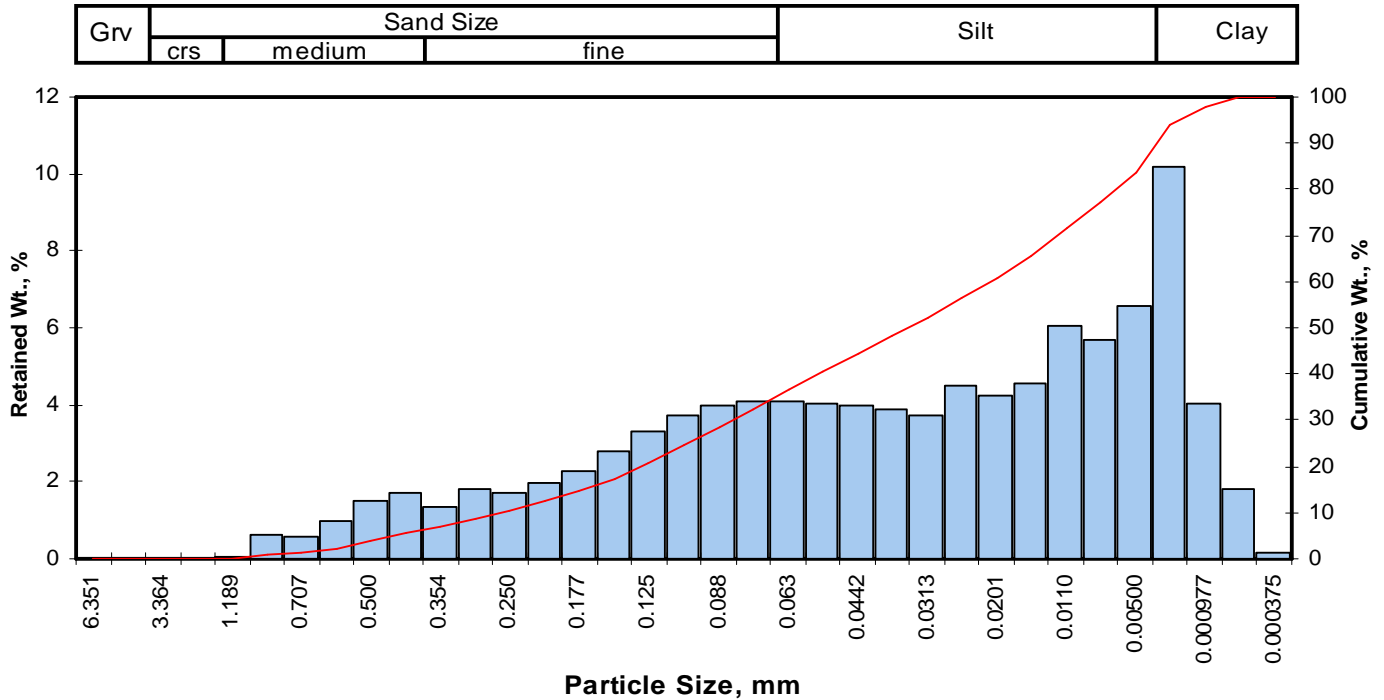
Measure	Trask	Inman	Folk-Ward
Median, phi	4.59	4.59	4.59
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.041	0.041	0.041
Mean, phi	4.24	5.19	4.99
Mean, in.	0.0021	0.0011	0.0012
Mean, mm	0.053	0.027	0.032
Sorting	2.936	2.174	2.129
Skewness	0.778	0.273	0.272
Kurtosis	0.268	0.581	0.907

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.41
Fine Sand	200	31.33
Silt	>0.005 mm	52.97
Clay	<0.005 mm	13.29
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-83.5-84.0
 Depth, ft: 83.5-83.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.06	0.06	0.06
0.0331	0.841	0.25	20	0.64	0.64	0.70
0.0278	0.707	0.50	25	0.55	0.55	1.25
0.0234	0.595	0.75	30	0.97	0.97	2.22
0.0197	0.500	1.00	35	1.51	1.51	3.73
0.0166	0.420	1.25	40	1.71	1.71	5.44
0.0139	0.354	1.50	45	1.37	1.37	6.81
0.0117	0.297	1.75	50	1.82	1.82	8.63
0.0098	0.250	2.00	60	1.72	1.72	10.35
0.0083	0.210	2.25	70	1.99	1.99	12.34
0.0070	0.177	2.50	80	2.30	2.30	14.64
0.0059	0.149	2.75	100	2.77	2.77	17.41
0.0049	0.125	3.00	120	3.30	3.30	20.71
0.0041	0.105	3.25	140	3.73	3.73	24.43
0.0035	0.088	3.50	170	3.98	3.98	28.41
0.0029	0.074	3.75	200	4.09	4.09	32.50
0.0025	0.063	4.00	230	4.09	4.09	36.59
0.0021	0.053	4.25	270	4.02	4.02	40.61
0.00174	0.0442	4.50	325	3.96	3.96	44.57
0.00146	0.0372	4.75	400	3.86	3.86	48.43
0.00123	0.0313	5.00	450	3.73	3.73	52.16
0.000986	0.0250	5.32	500	4.50	4.50	56.66
0.000790	0.0201	5.64	635	4.24	4.24	60.90
0.000615	0.0156	6.00		4.53	4.53	65.43
0.000435	0.0110	6.50		6.06	6.06	71.49
0.000308	0.00781	7.00		5.69	5.69	77.17
0.000197	0.00500	7.65		6.59	6.59	83.76
0.000077	0.00195	9.00		10.20	10.20	93.96
0.000038	0.000977	10.00		4.05	4.05	98.01
0.000019	0.000488	11.00		1.81	1.81	99.82
0.000015	0.000375	11.38		0.18	0.18	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.19	0.0173	0.440
10	1.95	0.0102	0.259
16	2.62	0.0064	0.162
25	3.29	0.0040	0.103
40	4.21	0.0021	0.054
50	4.86	0.0014	0.035
60	5.57	0.0008	0.021
75	6.81	0.0004	0.009
84	7.68	0.0002	0.005
90	8.47	0.0001	0.003
95	9.26	0.0001	0.002

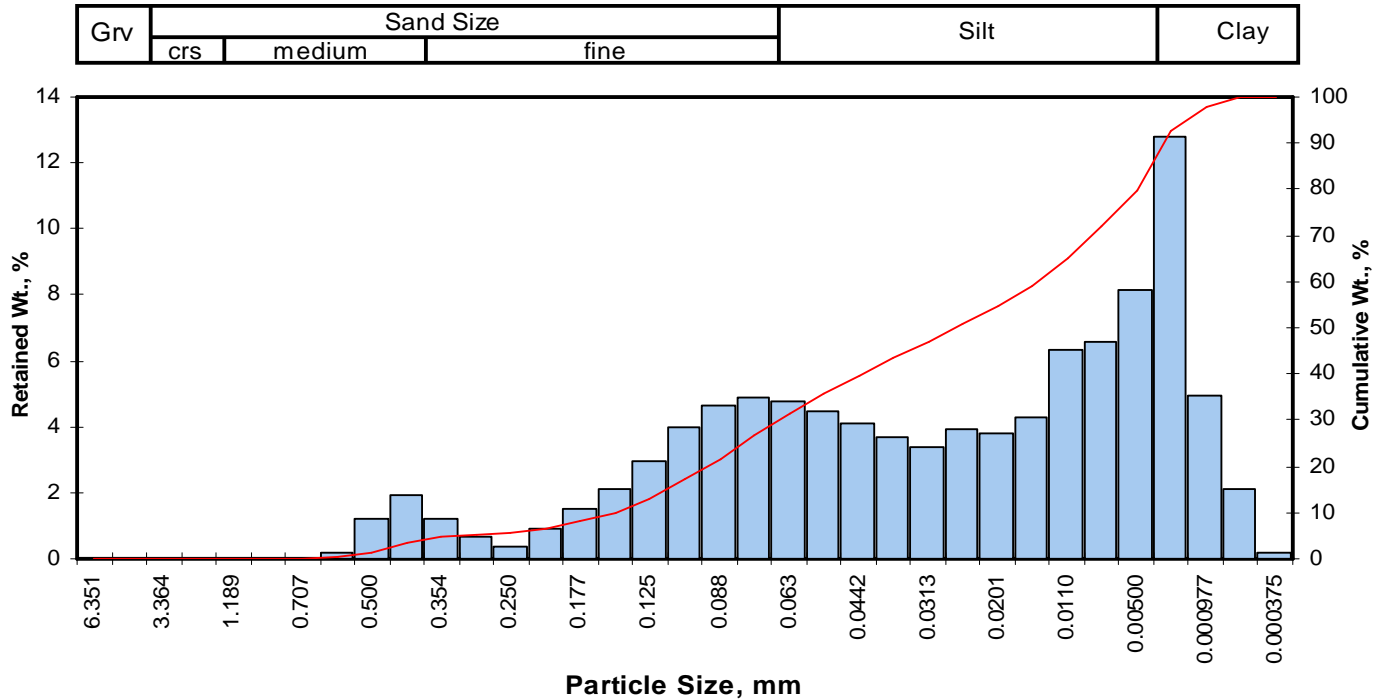
Measure	Trask	Inman	Folk-Ward
Median, phi	4.86	4.86	4.86
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.035	0.035	0.035
Mean, phi	4.17	5.15	5.05
Mean, in.	0.0022	0.0011	0.0012
Mean, mm	0.056	0.028	0.030
Sorting	3.391	2.527	2.486
Skewness	0.875	0.117	0.104
Kurtosis	0.183	0.597	0.939

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.44
Fine Sand	200	27.06
Silt	>0.005 mm	51.26
Clay	<0.005 mm	16.24
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-93.1-93.6
 Depth, ft: 93.1-93.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.01	0.01	0.01
0.0234	0.595	0.75	30	0.21	0.21	0.22
0.0197	0.500	1.00	35	1.22	1.22	1.44
0.0166	0.420	1.25	40	1.93	1.93	3.37
0.0139	0.354	1.50	45	1.21	1.21	4.58
0.0117	0.297	1.75	50	0.64	0.64	5.22
0.0098	0.250	2.00	60	0.36	0.36	5.58
0.0083	0.210	2.25	70	0.88	0.88	6.46
0.0070	0.177	2.50	80	1.52	1.52	7.98
0.0059	0.149	2.75	100	2.12	2.12	10.10
0.0049	0.125	3.00	120	2.98	2.98	13.08
0.0041	0.105	3.25	140	3.97	3.97	17.05
0.0035	0.088	3.50	170	4.66	4.66	21.71
0.0029	0.074	3.75	200	4.88	4.88	26.59
0.0025	0.063	4.00	230	4.75	4.75	31.34
0.0021	0.053	4.25	270	4.44	4.44	35.78
0.00174	0.0442	4.50	325	4.08	4.08	39.86
0.00146	0.0372	4.75	400	3.69	3.69	43.55
0.00123	0.0313	5.00	450	3.35	3.35	46.90
0.000986	0.0250	5.32	500	3.93	3.93	50.83
0.000790	0.0201	5.64	635	3.79	3.79	54.62
0.000615	0.0156	6.00		4.26	4.26	58.88
0.000435	0.0110	6.50		6.31	6.31	65.19
0.000308	0.00781	7.00		6.59	6.59	71.78
0.000197	0.00500	7.65		8.14	8.14	79.92
0.000077	0.00195	9.00		12.80	12.80	92.72
0.000038	0.000977	10.00		4.93	4.93	97.65
0.000019	0.000488	11.00		2.14	2.14	99.79
0.000015	0.000375	11.38		0.21	0.21	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.67	0.0124	0.315
10	2.74	0.0059	0.150
16	3.18	0.0043	0.110
25	3.67	0.0031	0.079
40	4.51	0.0017	0.044
50	5.25	0.0010	0.026
60	6.09	0.0006	0.015
75	7.26	0.0003	0.007
84	8.08	0.0001	0.004
90	8.71	0.0001	0.002
95	9.46	0.0001	0.001

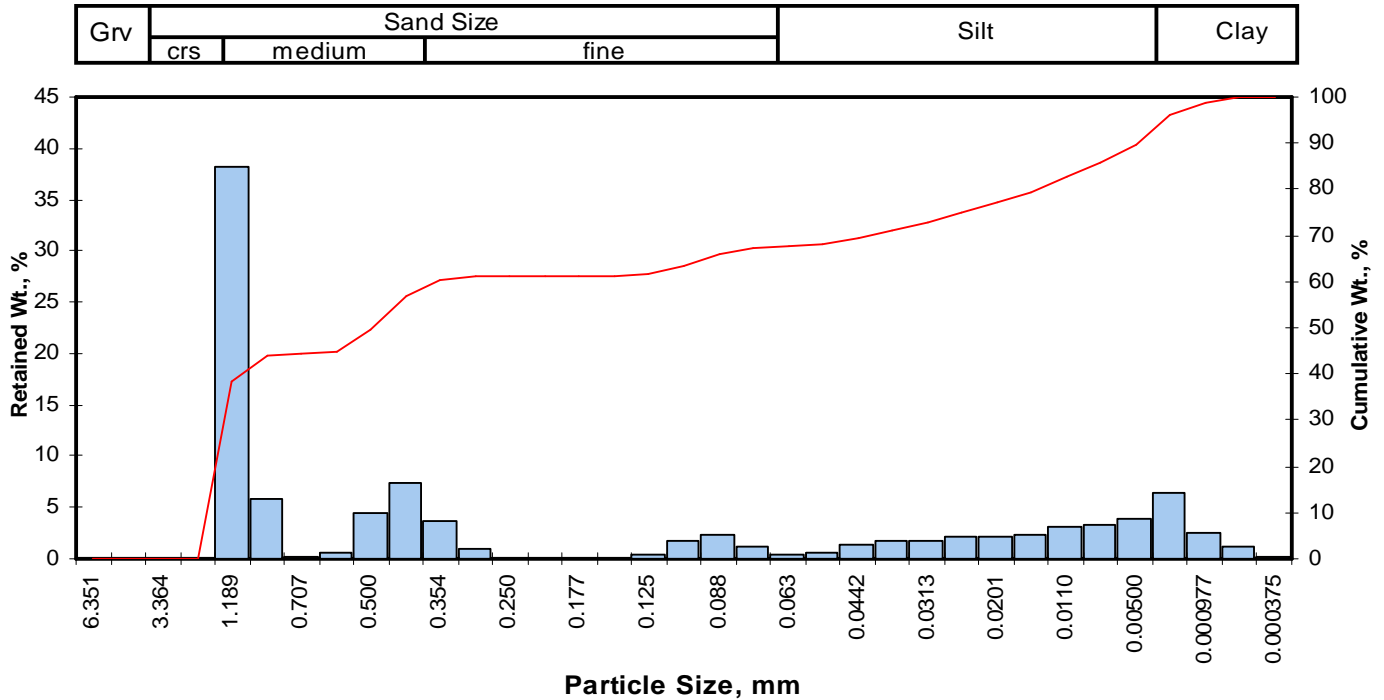
Measure	Trask	Inman	Folk-Ward
Median, phi	5.25	5.25	5.25
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.026	0.026	0.026
Mean, phi	4.55	5.63	5.50
Mean, in.	0.0017	0.0008	0.0009
Mean, mm	0.043	0.020	0.022
Sorting	3.466	2.446	2.405
Skewness	0.865	0.154	0.117
Kurtosis	0.244	0.594	0.891

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.37
Fine Sand	200	23.22
Silt	>0.005 mm	53.33
Clay	<0.005 mm	20.08
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-113.5-114.0
 Depth, ft: 113.5-113.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	38.20	38.21	38.21
0.0331	0.841	0.25	20	5.91	5.91	44.12
0.0278	0.707	0.50	25	0.12	0.12	44.24
0.0234	0.595	0.75	30	0.59	0.59	44.83
0.0197	0.500	1.00	35	4.53	4.53	49.36
0.0166	0.420	1.25	40	7.32	7.32	56.68
0.0139	0.354	1.50	45	3.67	3.67	60.36
0.0117	0.297	1.75	50	0.90	0.90	61.26
0.0098	0.250	2.00	60	0.01	0.01	61.26
0.0083	0.210	2.25	70	0.00	0.00	61.26
0.0070	0.177	2.50	80	0.00	0.00	61.26
0.0059	0.149	2.75	100	0.02	0.02	61.28
0.0049	0.125	3.00	120	0.46	0.46	61.74
0.0041	0.105	3.25	140	1.83	1.83	63.57
0.0035	0.088	3.50	170	2.35	2.35	65.92
0.0029	0.074	3.75	200	1.22	1.22	67.14
0.0025	0.063	4.00	230	0.36	0.36	67.50
0.0021	0.053	4.25	270	0.57	0.57	68.07
0.00174	0.0442	4.50	325	1.42	1.42	69.49
0.00146	0.0372	4.75	400	1.79	1.79	71.28
0.00123	0.0313	5.00	450	1.72	1.72	73.00
0.000986	0.0250	5.32	500	2.08	2.08	75.08
0.000790	0.0201	5.64	635	2.12	2.12	77.20
0.000615	0.0156	6.00		2.32	2.32	79.52
0.000435	0.0110	6.50		3.18	3.18	82.71
0.000308	0.00781	7.00		3.21	3.21	85.92
0.000197	0.00500	7.65		3.95	3.95	89.87
0.000077	0.00195	9.00		6.39	6.39	96.26
0.000038	0.000977	10.00		2.55	2.55	98.81
0.000019	0.000488	11.00		1.09	1.09	99.90
0.000015	0.000375	11.38		0.10	0.10	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.90	0.0736	1.868
10	-0.80	0.0687	1.746
16	-0.69	0.0633	1.609
25	-0.51	0.0560	1.423
40	-0.10	0.0422	1.071
50	1.02	0.0194	0.493
60	1.48	0.0142	0.360
75	5.31	0.0010	0.025
84	6.70	0.0004	0.010
90	7.67	0.0002	0.005
95	8.73	0.0001	0.002

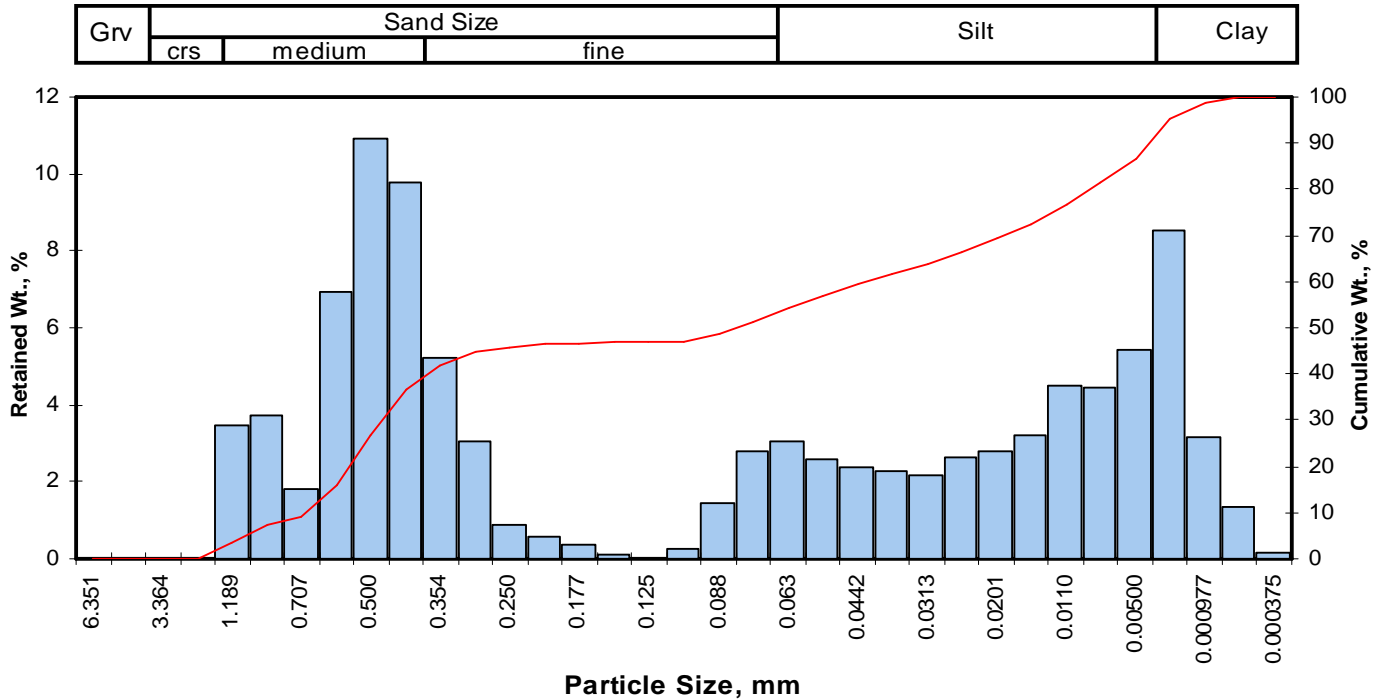
Measure	Trask	Inman	Folk-Ward
Median, phi	1.02	1.02	1.02
Median, in.	0.0194	0.0194	0.0194
Median, mm	0.493	0.493	0.493
Mean, phi	0.47	3.01	2.35
Mean, in.	0.0285	0.0049	0.0077
Mean, mm	0.724	0.124	0.197
Sorting	7.507	3.694	3.307
Skewness	0.385	0.538	0.569
Kurtosis	0.402	0.304	0.679

Grain Size Description (ASTM-USCS Scale) Medium sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	56.68
Fine Sand	200	10.46
Silt	>0.005 mm	22.73
Clay	<0.005 mm	10.13
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-122.0-122.4
 Depth, ft: 122.0-122.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	3.45	3.45	3.45
0.0331	0.841	0.25	20	3.72	3.72	7.17
0.0278	0.707	0.50	25	1.83	1.83	9.00
0.0234	0.595	0.75	30	6.96	6.96	15.95
0.0197	0.500	1.00	35	10.90	10.89	26.85
0.0166	0.420	1.25	40	9.80	9.80	36.64
0.0139	0.354	1.50	45	5.25	5.25	41.89
0.0117	0.297	1.75	50	3.07	3.07	44.96
0.0098	0.250	2.00	60	0.87	0.87	45.83
0.0083	0.210	2.25	70	0.55	0.55	46.38
0.0070	0.177	2.50	80	0.36	0.36	46.74
0.0059	0.149	2.75	100	0.08	0.08	46.82
0.0049	0.125	3.00	120	0.01	0.01	46.83
0.0041	0.105	3.25	140	0.24	0.24	47.07
0.0035	0.088	3.50	170	1.44	1.44	48.51
0.0029	0.074	3.75	200	2.77	2.77	51.27
0.0025	0.063	4.00	230	3.03	3.03	54.30
0.0021	0.053	4.25	270	2.61	2.61	56.91
0.00174	0.0442	4.50	325	2.36	2.36	59.27
0.00146	0.0372	4.75	400	2.30	2.30	61.57
0.00123	0.0313	5.00	450	2.19	2.19	63.76
0.000986	0.0250	5.32	500	2.66	2.66	66.42
0.000790	0.0201	5.64	635	2.77	2.77	69.19
0.000615	0.0156	6.00		3.23	3.23	72.41
0.000435	0.0110	6.50		4.50	4.50	76.91
0.000308	0.00781	7.00		4.45	4.45	81.36
0.000197	0.00500	7.65		5.44	5.44	86.80
0.000077	0.00195	9.00		8.56	8.56	95.35
0.000038	0.000977	10.00		3.18	3.18	98.53
0.000019	0.000488	11.00		1.34	1.34	99.87
0.000015	0.000375	11.38		0.13	0.13	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.04	0.0405	1.029
10	0.54	0.0272	0.690
16	0.75	0.0234	0.594
25	0.96	0.0203	0.515
40	1.41	0.0148	0.376
50	3.63	0.0032	0.080
60	4.58	0.0016	0.042
75	6.29	0.0005	0.013
84	7.31	0.0002	0.006
90	8.15	0.0001	0.004
95	8.94	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	3.63	3.63	3.63
Median, in.	0.0032	0.0032	0.0032
Median, mm	0.080	0.080	0.080
Mean, phi	1.92	4.03	3.90
Mean, in.	0.0104	0.0024	0.0026
Mean, mm	0.264	0.061	0.067
Sorting	6.342	3.281	3.002
Skewness	1.009	0.121	0.151
Kurtosis	0.366	0.369	0.691

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	36.64
Fine Sand	200	14.63
Silt	>0.005 mm	35.52
Clay	<0.005 mm	13.20
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

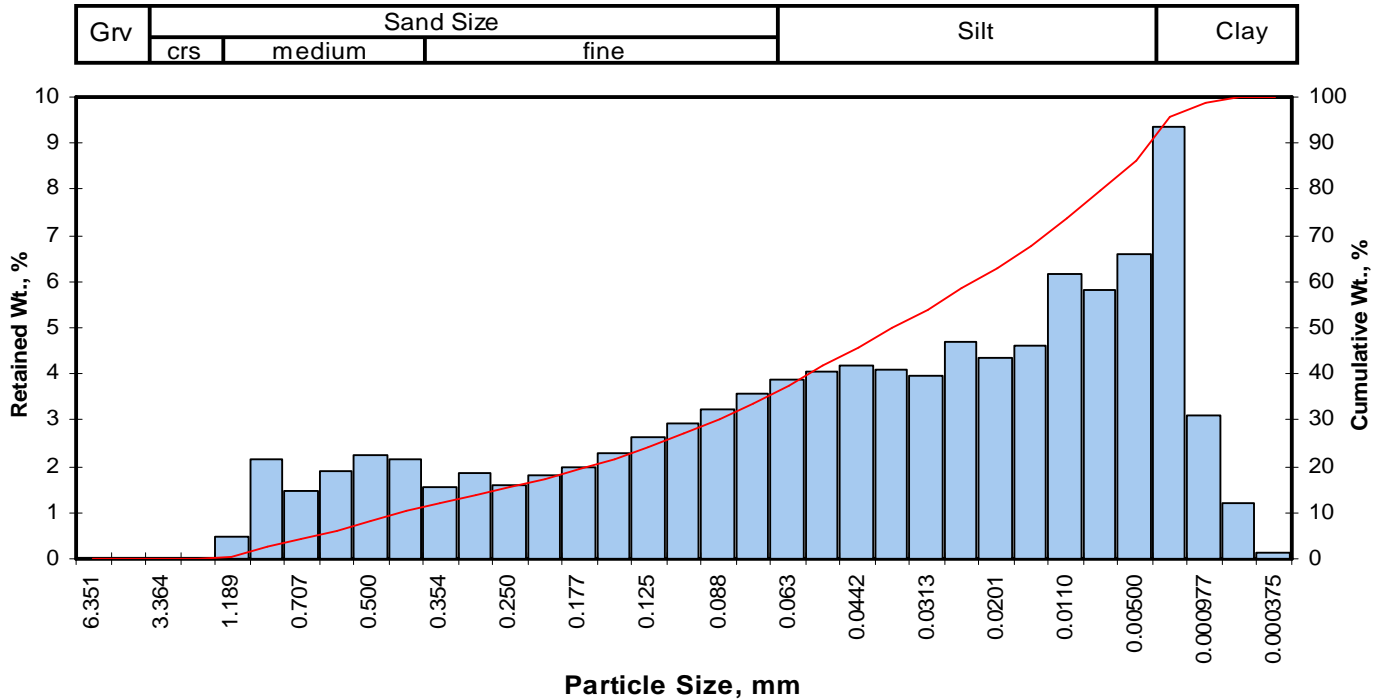
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3B

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI25-142.3-142.8	142.3-142.5	Silt	0.037	0.00	0.00	10.42	23.35	52.46	13.77	66.23
PT-RI25-147.5-147.8	147.5-147.8	Silt	0.009	0.00	0.00	0.00	8.37	56.73	34.90	91.63
PT-RI1-33.0-33.3	33.0-33.3	Silt	0.058	0.00	0.00	4.92	37.76	48.30	9.02	57.32
PT-RI5-75.0-75.5	75.0-75.2	Silt	0.015	0.00	0.00	0.00	11.48	61.69	26.83	88.52
PT-RI5-82.3-82.8	82.3-82.8	Silt	0.019	0.00	0.00	1.63	20.37	58.12	19.87	77.99
PT-RI5-87.2-87.7	87.2-87.4	Silt	0.022	0.00	0.00	2.25	13.21	64.49	20.05	84.55
PT-RI7-109.0-109.5	109.0-109.2	Silt	0.020	0.00	0.00	0.58	19.25	57.10	23.08	80.17
PT-RI7-122.5-123.0	122.5-122.7	Silt	0.026	0.00	0.00	17.15	13.83	48.32	20.69	69.01
PT-RI18-21.0-21.3	21.0-21.3	Silt	0.030	0.00	0.00	6.16	24.42	52.89	16.53	69.43
PT-RI18-24.7-25.0	24.7-25.0	Silt	0.024	0.00	0.00	7.64	21.59	54.32	16.44	70.76

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-142.3-142.8
 Depth, ft: 142.3-142.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.48	0.48	0.48
0.0331	0.841	0.25	20	2.16	2.16	2.64
0.0278	0.707	0.50	25	1.46	1.46	4.10
0.0234	0.595	0.75	30	1.89	1.89	5.99
0.0197	0.500	1.00	35	2.26	2.26	8.25
0.0166	0.420	1.25	40	2.17	2.17	10.42
0.0139	0.354	1.50	45	1.54	1.54	11.96
0.0117	0.297	1.75	50	1.84	1.84	13.80
0.0098	0.250	2.00	60	1.60	1.60	15.40
0.0083	0.210	2.25	70	1.79	1.79	17.19
0.0070	0.177	2.50	80	2.00	2.00	19.19
0.0059	0.149	2.75	100	2.28	2.28	21.47
0.0049	0.125	3.00	120	2.61	2.61	24.08
0.0041	0.105	3.25	140	2.91	2.91	26.99
0.0035	0.088	3.50	170	3.22	3.22	30.21
0.0029	0.074	3.75	200	3.56	3.56	33.77
0.0025	0.063	4.00	230	3.88	3.88	37.65
0.0021	0.053	4.25	270	4.07	4.07	41.72
0.00174	0.0442	4.50	325	4.16	4.16	45.88
0.00146	0.0372	4.75	400	4.11	4.11	49.99
0.00123	0.0313	5.00	450	3.95	3.95	53.93
0.000986	0.0250	5.32	500	4.71	4.71	58.64
0.000790	0.0201	5.64	635	4.37	4.37	63.01
0.000615	0.0156	6.00		4.61	4.61	67.62
0.000435	0.0110	6.50		6.18	6.18	73.80
0.000308	0.00781	7.00		5.82	5.82	79.62
0.000197	0.00500	7.65		6.61	6.61	86.23
0.000077	0.00195	9.00		9.34	9.34	95.57
0.000038	0.000977	10.00		3.10	3.10	98.67
0.000019	0.000488	11.00		1.22	1.22	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.62	0.0256	0.651
10	1.20	0.0171	0.435
16	2.08	0.0093	0.236
25	3.08	0.0047	0.118
40	4.14	0.0022	0.057
50	4.75	0.0015	0.037
60	5.42	0.0009	0.023
75	6.60	0.0004	0.010
84	7.43	0.0002	0.006
90	8.19	0.0001	0.003
95	8.92	0.0001	0.002

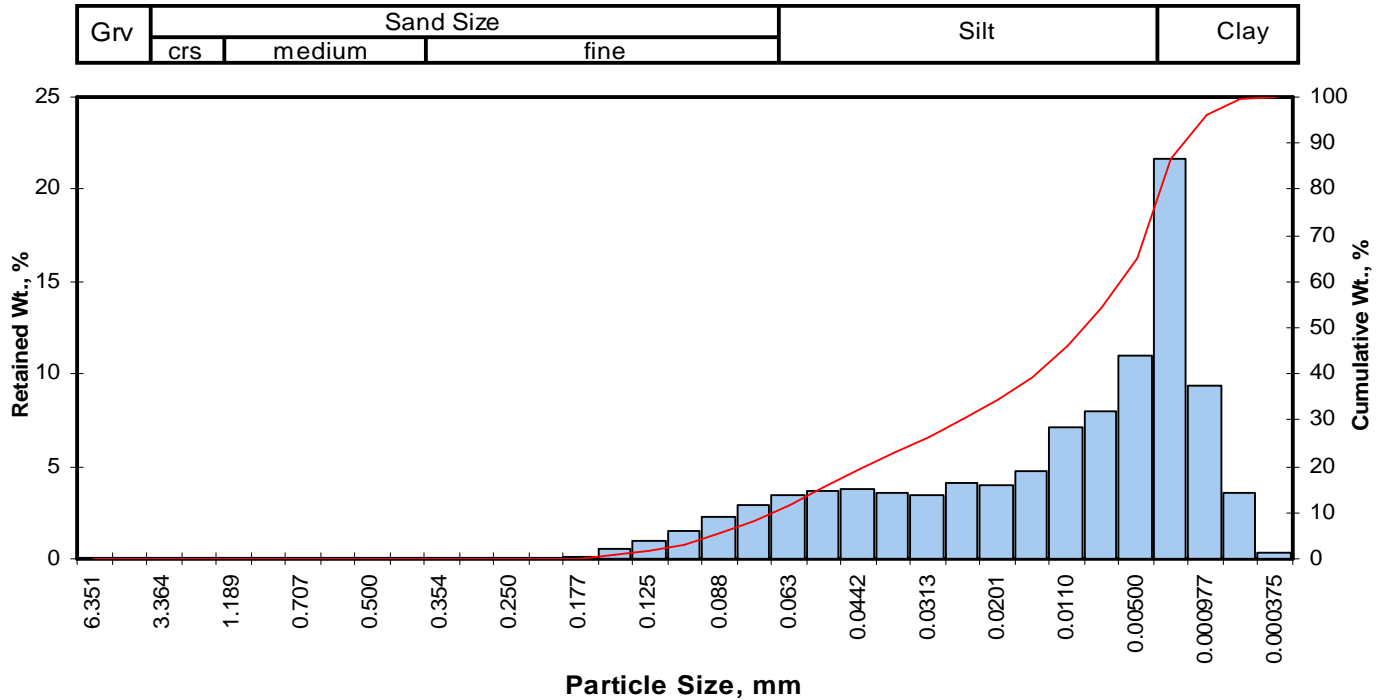
Measure	Trask	Inman	Folk-Ward
Median, phi	4.75	4.75	4.75
Median, in.	0.0015	0.0015	0.0015
Median, mm	0.037	0.037	0.037
Mean, phi	3.96	4.76	4.75
Mean, in.	0.0025	0.0015	0.0015
Mean, mm	0.064	0.037	0.037
Sorting	3.391	2.672	2.593
Skewness	0.939	0.002	0.003
Kurtosis	0.125	0.553	0.965

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	10.42
Fine Sand	200	23.35
Silt	>0.005 mm	52.46
Clay	<0.005 mm	13.77
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI25-147.5-147.8
 Depth, ft: 147.5-147.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.02	0.02	0.02
0.0070	0.177	2.50	80	0.15	0.15	0.17
0.0059	0.149	2.75	100	0.49	0.49	0.66
0.0049	0.125	3.00	120	0.96	0.96	1.62
0.0041	0.105	3.25	140	1.55	1.55	3.17
0.0035	0.088	3.50	170	2.25	2.25	5.42
0.0029	0.074	3.75	200	2.95	2.95	8.37
0.0025	0.063	4.00	230	3.46	3.46	11.83
0.0021	0.053	4.25	270	3.69	3.69	15.52
0.00174	0.0442	4.50	325	3.73	3.73	19.24
0.00146	0.0372	4.75	400	3.61	3.61	22.85
0.00123	0.0313	5.00	450	3.40	3.40	26.25
0.000986	0.0250	5.32	500	4.08	4.08	30.33
0.000790	0.0201	5.64	635	4.03	4.03	34.36
0.000615	0.0156	6.00		4.69	4.69	39.05
0.000435	0.0110	6.50		7.12	7.12	46.17
0.000308	0.00781	7.00		7.93	7.93	54.10
0.000197	0.00500	7.65		11.00	11.00	65.10
0.000077	0.00195	9.00		21.70	21.70	86.79
0.000038	0.000977	10.00		9.36	9.36	96.15
0.000019	0.000488	11.00		3.54	3.54	99.69
0.000015	0.000375	11.38		0.31	0.31	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.45	0.0036	0.091
10	3.87	0.0027	0.068
16	4.28	0.0020	0.051
25	4.91	0.0013	0.033
40	6.07	0.0006	0.015
50	6.74	0.0004	0.009
60	7.35	0.0002	0.006
75	8.26	0.0001	0.003
84	8.83	0.0001	0.002
90	9.34	0.0001	0.002
95	9.88	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.74	6.74	6.74
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.009	0.009	0.009
Mean, phi	5.77	6.55	6.62
Mean, in.	0.0007	0.0004	0.0004
Mean, mm	0.018	0.011	0.010
Sorting	3.200	2.272	2.109
Skewness	1.114	-0.083	-0.053
Kurtosis	0.224	0.414	0.784

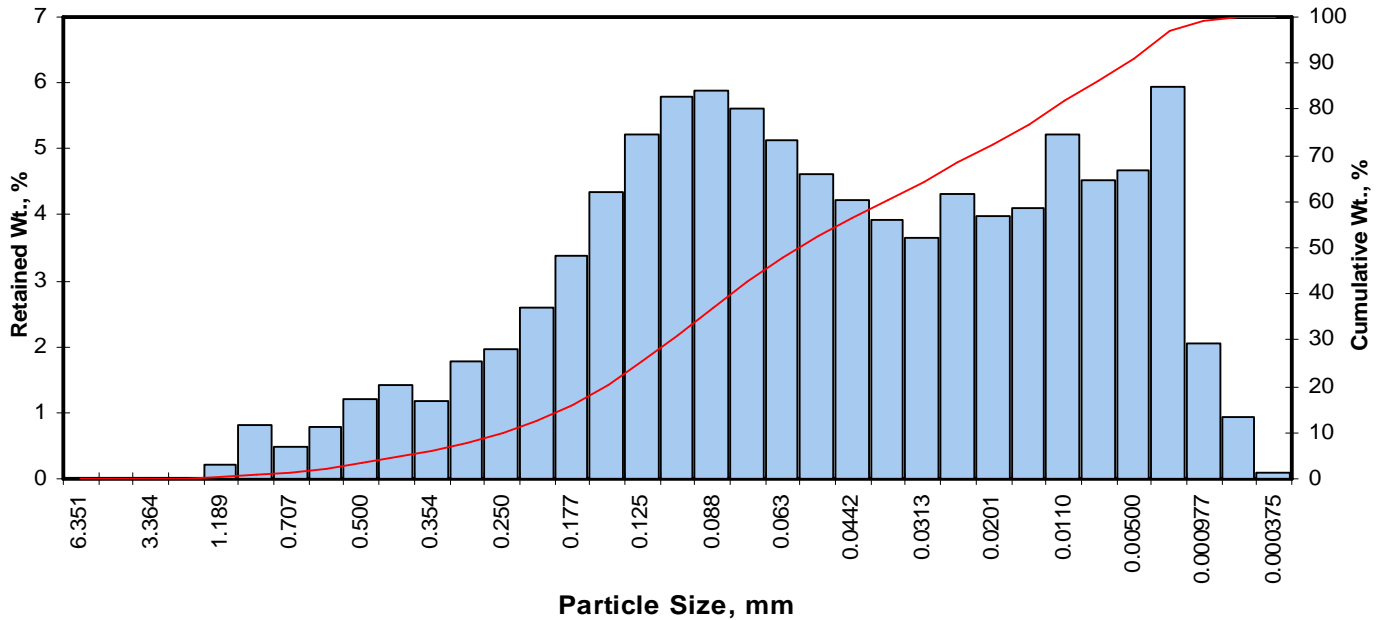
Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	8.37
Silt	>0.005 mm	56.73
Clay	<0.005 mm	34.90
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI1-33.0-33.3
 Depth, ft: 33.0-33.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.22	0.22	0.22
0.0331	0.841	0.25	20	0.81	0.81	1.03
0.0278	0.707	0.50	25	0.47	0.47	1.50
0.0234	0.595	0.75	30	0.78	0.78	2.28
0.0197	0.500	1.00	35	1.22	1.22	3.50
0.0166	0.420	1.25	40	1.42	1.42	4.92
0.0139	0.354	1.50	45	1.19	1.19	6.11
0.0117	0.297	1.75	50	1.78	1.78	7.89
0.0098	0.250	2.00	60	1.96	1.96	9.85
0.0083	0.210	2.25	70	2.61	2.61	12.46
0.0070	0.177	2.50	80	3.39	3.39	15.85
0.0059	0.149	2.75	100	4.34	4.34	20.19
0.0049	0.125	3.00	120	5.22	5.22	25.41
0.0041	0.105	3.25	140	5.78	5.78	31.19
0.0035	0.088	3.50	170	5.88	5.88	37.07
0.0029	0.074	3.75	200	5.61	5.61	42.68
0.0025	0.063	4.00	230	5.12	5.12	47.80
0.0021	0.053	4.25	270	4.61	4.61	52.41
0.00174	0.0442	4.50	325	4.21	4.21	56.62
0.00146	0.0372	4.75	400	3.91	3.91	60.53
0.00123	0.0313	5.00	450	3.66	3.66	64.19
0.000986	0.0250	5.32	500	4.32	4.32	68.51
0.000790	0.0201	5.64	635	3.97	3.97	72.48
0.000615	0.0156	6.00		4.09	4.09	76.57
0.000435	0.0110	6.50		5.21	5.21	81.78
0.000308	0.00781	7.00		4.52	4.52	86.30
0.000197	0.00500	7.65		4.68	4.68	90.98
0.000077	0.00195	9.00		5.94	5.94	96.92
0.000038	0.000977	10.00		2.05	2.05	98.97
0.000019	0.000488	11.00		0.94	0.94	99.91
0.000015	0.000375	11.38		0.09	0.09	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.27	0.0164	0.416
10	2.01	0.0097	0.248
16	2.51	0.0069	0.176
25	2.98	0.0050	0.127
40	3.63	0.0032	0.081
50	4.12	0.0023	0.058
60	4.72	0.0015	0.038
75	5.86	0.0007	0.017
84	6.75	0.0004	0.009
90	7.51	0.0002	0.005
95	8.56	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	4.12	4.12	4.12
Median, in.	0.0023	0.0023	0.0023
Median, mm	0.058	0.058	0.058
Mean, phi	3.80	4.63	4.46
Mean, in.	0.0028	0.0016	0.0018
Mean, mm	0.072	0.040	0.045
Sorting	2.715	2.119	2.165
Skewness	0.811	0.240	0.229
Kurtosis	0.226	0.722	1.038

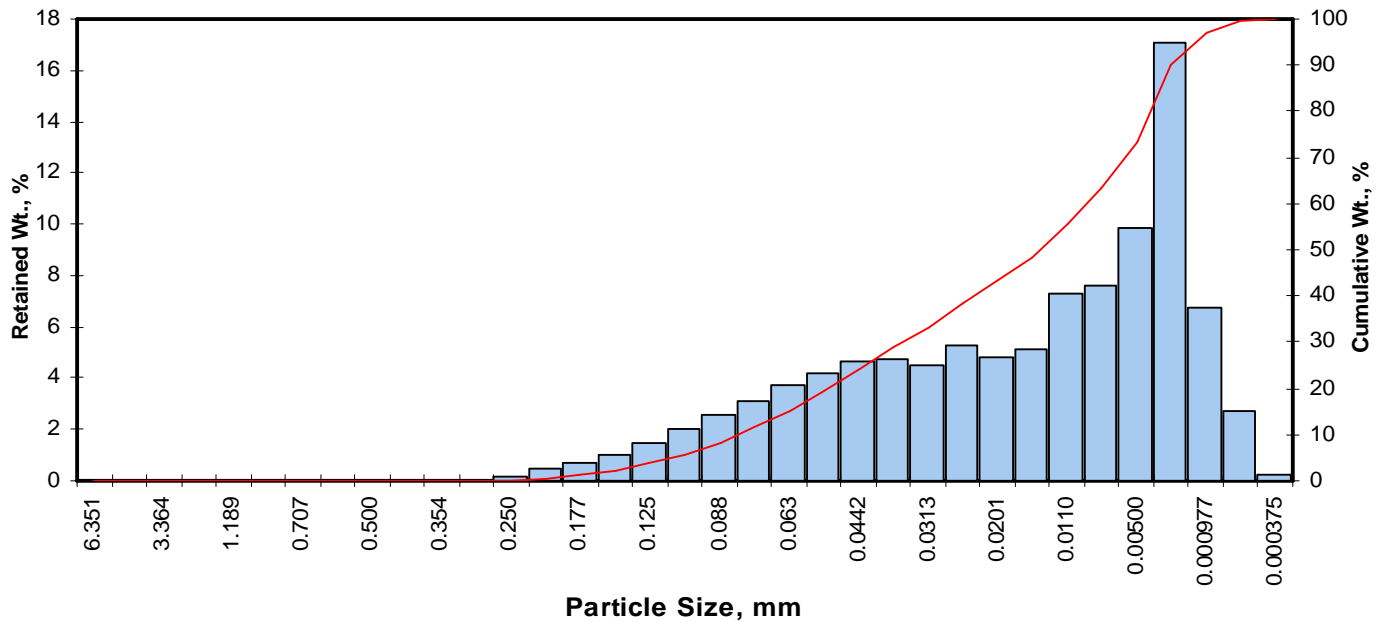
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	4.92
Fine Sand	200	37.76
Silt	>0.005 mm	48.30
Clay	<0.005 mm	9.02
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI5-75.0-75.5
 Depth, ft: 75.0-75.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.02	0.02	0.02
0.0098	0.250	2.00	60	0.16	0.16	0.18
0.0083	0.210	2.25	70	0.43	0.43	0.61
0.0070	0.177	2.50	80	0.70	0.70	1.31
0.0059	0.149	2.75	100	1.02	1.02	2.33
0.0049	0.125	3.00	120	1.46	1.46	3.79
0.0041	0.105	3.25	140	2.01	2.01	5.80
0.0035	0.088	3.50	170	2.56	2.56	8.36
0.0029	0.074	3.75	200	3.12	3.12	11.48
0.0025	0.063	4.00	230	3.69	3.69	15.17
0.0021	0.053	4.25	270	4.20	4.20	19.37
0.00174	0.0442	4.50	325	4.62	4.62	23.98
0.00146	0.0372	4.75	400	4.73	4.73	28.71
0.00123	0.0313	5.00	450	4.54	4.54	33.25
0.000986	0.0250	5.32	500	5.28	5.28	38.53
0.000790	0.0201	5.64	635	4.81	4.81	43.34
0.000615	0.0156	6.00		5.15	5.15	48.49
0.000435	0.0110	6.50		7.28	7.28	55.76
0.000308	0.00781	7.00		7.59	7.59	63.35
0.000197	0.00500	7.65		9.82	9.82	73.17
0.000077	0.00195	9.00		17.10	17.09	90.26
0.000038	0.000977	10.00		6.78	6.78	97.04
0.000019	0.000488	11.00		2.71	2.71	99.75
0.000015	0.000375	11.38		0.25	0.25	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.15	0.0044	0.113
10	3.63	0.0032	0.081
16	4.05	0.0024	0.060
25	4.55	0.0017	0.043
40	5.42	0.0009	0.023
50	6.10	0.0006	0.015
60	6.78	0.0004	0.009
75	7.79	0.0002	0.005
84	8.50	0.0001	0.003
90	8.98	0.0001	0.002
95	9.70	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.10	6.10	6.10
Median, in.	0.0006	0.0006	0.0006
Median, mm	0.015	0.015	0.015
Mean, phi	5.41	6.28	6.22
Mean, in.	0.0009	0.0005	0.0005
Mean, mm	0.024	0.013	0.013
Sorting	3.070	2.227	2.106
Skewness	0.954	0.077	0.088
Kurtosis	0.242	0.470	0.829

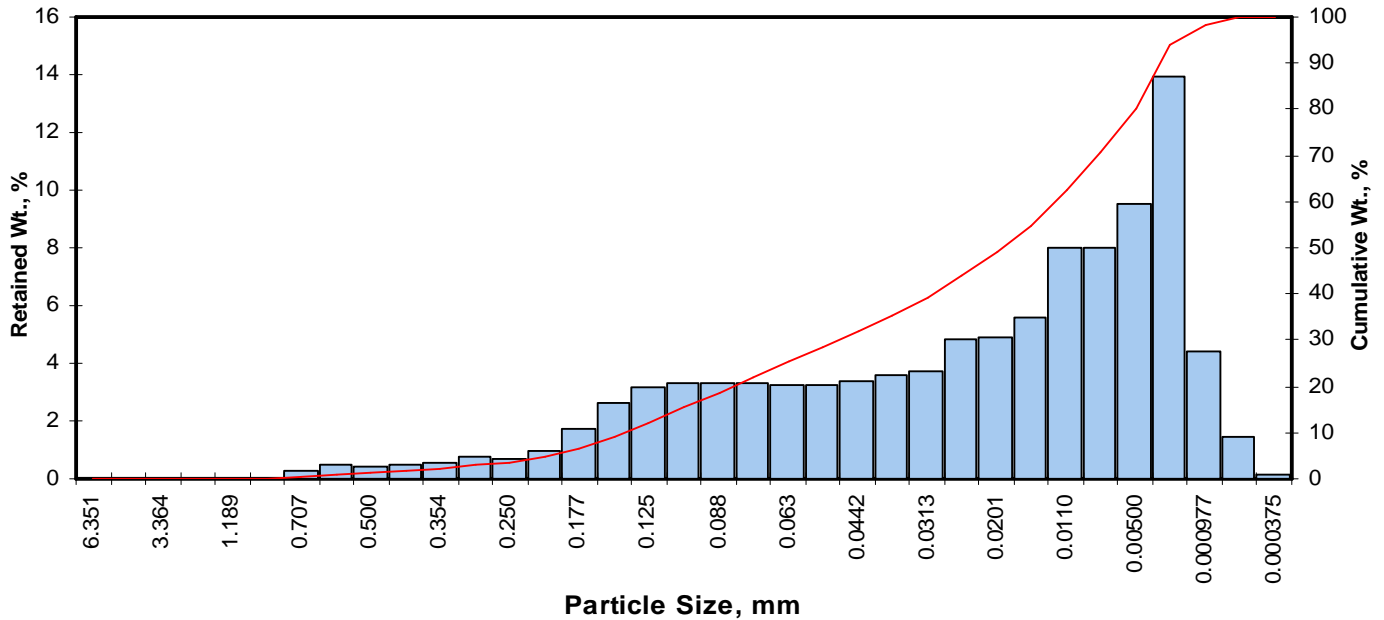
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	11.48
Silt	>0.005 mm	61.69
Clay	<0.005 mm	26.83
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI5-82.3-82.8
 Depth, ft: 82.3-82.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.02	0.02	0.02
0.0278	0.707	0.50	25	0.25	0.25	0.27
0.0234	0.595	0.75	30	0.48	0.48	0.75
0.0197	0.500	1.00	35	0.39	0.39	1.14
0.0166	0.420	1.25	40	0.49	0.49	1.63
0.0139	0.354	1.50	45	0.53	0.53	2.16
0.0117	0.297	1.75	50	0.77	0.77	2.93
0.0098	0.250	2.00	60	0.66	0.66	3.59
0.0083	0.210	2.25	70	0.98	0.98	4.57
0.0070	0.177	2.50	80	1.72	1.72	6.29
0.0059	0.149	2.75	100	2.63	2.63	8.92
0.0049	0.125	3.00	120	3.16	3.16	12.08
0.0041	0.105	3.25	140	3.32	3.32	15.40
0.0035	0.088	3.50	170	3.32	3.32	18.72
0.0029	0.074	3.75	200	3.28	3.28	22.01
0.0025	0.063	4.00	230	3.25	3.25	25.26
0.0021	0.053	4.25	270	3.27	3.27	28.53
0.00174	0.0442	4.50	325	3.41	3.41	31.94
0.00146	0.0372	4.75	400	3.59	3.59	35.53
0.00123	0.0313	5.00	450	3.74	3.74	39.27
0.000986	0.0250	5.32	500	4.86	4.86	44.13
0.000790	0.0201	5.64	635	4.91	4.91	49.04
0.000615	0.0156	6.00		5.56	5.56	54.60
0.000435	0.0110	6.50		8.02	8.02	62.62
0.000308	0.00781	7.00		8.01	8.01	70.63
0.000197	0.00500	7.65		9.49	9.49	80.13
0.000077	0.00195	9.00		13.90	13.90	94.03
0.000038	0.000977	10.00		4.40	4.40	98.43
0.000019	0.000488	11.00		1.45	1.45	99.88
0.000015	0.000375	11.38		0.12	0.12	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.31	0.0079	0.201
10	2.84	0.0055	0.140
16	3.29	0.0040	0.102
25	3.98	0.0025	0.063
40	5.05	0.0012	0.030
50	5.70	0.0008	0.019
60	6.34	0.0005	0.012
75	7.30	0.0003	0.006
84	8.02	0.0002	0.004
90	8.61	0.0001	0.003
95	9.22	0.0001	0.002

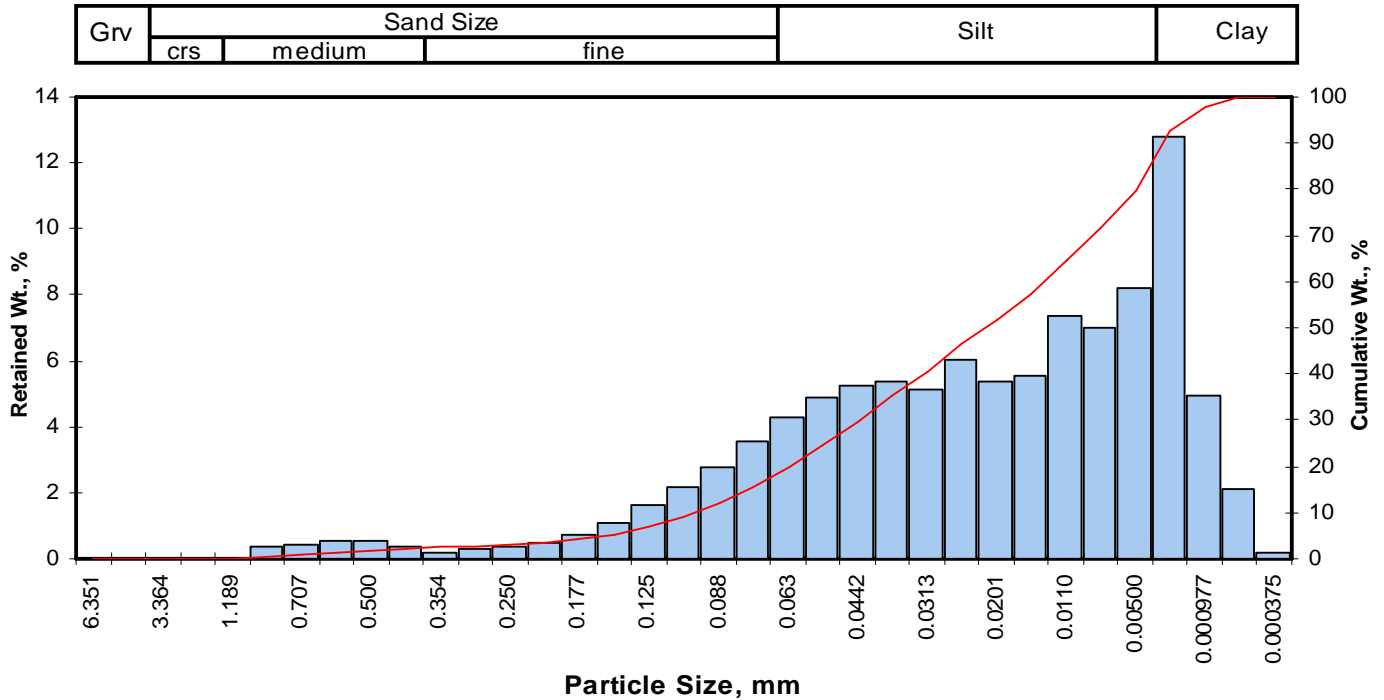
Measure	Trask	Inman	Folk-Ward
Median, phi	5.70	5.70	5.70
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.019	0.019	0.019
Mean, phi	4.84	5.66	5.67
Mean, in.	0.0014	0.0008	0.0008
Mean, mm	0.035	0.020	0.020
Sorting	3.156	2.364	2.229
Skewness	1.045	-0.018	0.000
Kurtosis	0.207	0.461	0.854

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.63
Fine Sand	200	20.37
Silt	>0.005 mm	58.12
Clay	<0.005 mm	19.87
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI5-87.2-87.7
 Depth, ft: 87.2-87.4



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.01	0.01	0.01
0.0331	0.841	0.25	20	0.35	0.35	0.36
0.0278	0.707	0.50	25	0.45	0.45	0.81
0.0234	0.595	0.75	30	0.57	0.57	1.38
0.0197	0.500	1.00	35	0.53	0.53	1.91
0.0166	0.420	1.25	40	0.34	0.34	2.25
0.0139	0.354	1.50	45	0.19	0.19	2.43
0.0117	0.297	1.75	50	0.28	0.28	2.71
0.0098	0.250	2.00	60	0.37	0.37	3.08
0.0083	0.210	2.25	70	0.51	0.51	3.59
0.0070	0.177	2.50	80	0.70	0.70	4.29
0.0059	0.149	2.75	100	1.08	1.08	5.37
0.0049	0.125	3.00	120	1.60	1.60	6.97
0.0041	0.105	3.25	140	2.15	2.15	9.12
0.0035	0.088	3.50	170	2.78	2.78	11.90
0.0029	0.074	3.75	200	3.55	3.55	15.45
0.0025	0.063	4.00	230	4.31	4.31	19.76
0.0021	0.053	4.25	270	4.89	4.89	24.65
0.00174	0.0442	4.50	325	5.27	5.27	29.92
0.00146	0.0372	4.75	400	5.35	5.35	35.27
0.00123	0.0313	5.00	450	5.16	5.16	40.43
0.000986	0.0250	5.32	500	6.02	6.02	46.44
0.000790	0.0201	5.64	635	5.38	5.38	51.82
0.000615	0.0156	6.00		5.55	5.55	57.37
0.000435	0.0110	6.50		7.35	7.35	64.72
0.000308	0.00781	7.00		7.00	7.00	71.72
0.000197	0.00500	7.65		8.23	8.23	79.95
0.000077	0.00195	9.00		12.80	12.80	92.74
0.000038	0.000977	10.00		4.96	4.96	97.70
0.000019	0.000488	11.00		2.10	2.10	99.80
0.000015	0.000375	11.38		0.20	0.20	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.66	0.0062	0.158
10	3.33	0.0039	0.100
16	3.78	0.0029	0.073
25	4.27	0.0020	0.052
40	4.98	0.0012	0.032
50	5.53	0.0009	0.022
60	6.18	0.0005	0.014
75	7.26	0.0003	0.007
84	8.07	0.0001	0.004
90	8.71	0.0001	0.002
95	9.46	0.0001	0.001

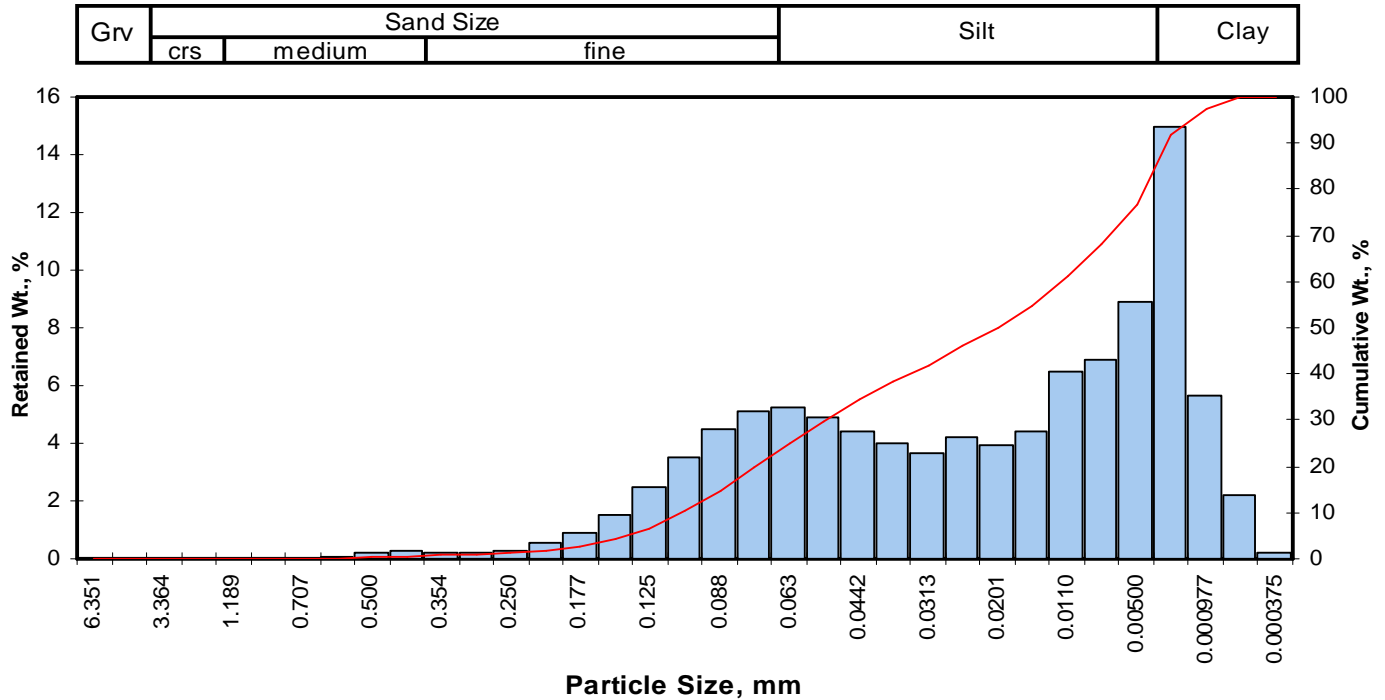
Measure	Trask	Inman	Folk-Ward
Median, phi	5.53	5.53	5.53
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.022	0.022	0.022
Mean, phi	5.10	5.93	5.80
Mean, in.	0.0012	0.0006	0.0007
Mean, mm	0.029	0.016	0.018
Sorting	2.819	2.146	2.102
Skewness	0.852	0.185	0.170
Kurtosis	0.234	0.582	0.931

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.25
Fine Sand	200	13.21
Silt	>0.005 mm	64.49
Clay	<0.005 mm	20.05
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI7-109.0-109.5
 Depth, ft: 109.0-109.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.05	0.05	0.05
0.0197	0.500	1.00	35	0.23	0.23	0.28
0.0166	0.420	1.25	40	0.30	0.30	0.58
0.0139	0.354	1.50	45	0.18	0.18	0.76
0.0117	0.297	1.75	50	0.21	0.21	0.97
0.0098	0.250	2.00	60	0.31	0.31	1.28
0.0083	0.210	2.25	70	0.55	0.55	1.83
0.0070	0.177	2.50	80	0.88	0.88	2.71
0.0059	0.149	2.75	100	1.51	1.51	4.22
0.0049	0.125	3.00	120	2.46	2.46	6.68
0.0041	0.105	3.25	140	3.54	3.54	10.22
0.0035	0.088	3.50	170	4.50	4.50	14.72
0.0029	0.074	3.75	200	5.11	5.11	19.83
0.0025	0.063	4.00	230	5.21	5.21	25.04
0.0021	0.053	4.25	270	4.89	4.89	29.93
0.00174	0.0442	4.50	325	4.44	4.44	34.37
0.00146	0.0372	4.75	400	4.01	4.01	38.37
0.00123	0.0313	5.00	450	3.63	3.63	42.00
0.000986	0.0250	5.32	500	4.20	4.20	46.20
0.000790	0.0201	5.64	635	3.95	3.95	50.15
0.000615	0.0156	6.00		4.41	4.41	54.56
0.000435	0.0110	6.50		6.51	6.51	61.07
0.000308	0.00781	7.00		6.93	6.93	68.00
0.000197	0.00500	7.65		8.92	8.92	76.92
0.000077	0.00195	9.00		15.00	15.00	91.92
0.000038	0.000977	10.00		5.68	5.68	97.60
0.000019	0.000488	11.00		2.20	2.20	99.80
0.000015	0.000375	11.38		0.20	0.20	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.83	0.0055	0.141
10	3.23	0.0042	0.106
16	3.56	0.0033	0.085
25	4.00	0.0025	0.063
40	4.86	0.0014	0.034
50	5.63	0.0008	0.020
60	6.42	0.0005	0.012
75	7.51	0.0002	0.006
84	8.28	0.0001	0.003
90	8.83	0.0001	0.002
95	9.54	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.63	5.63	5.63
Median, in.	0.0008	0.0008	0.0008
Median, mm	0.020	0.020	0.020
Mean, phi	4.88	5.92	5.82
Mean, in.	0.0013	0.0006	0.0007
Mean, mm	0.034	0.016	0.018
Sorting	3.373	2.361	2.197
Skewness	0.917	0.125	0.146
Kurtosis	0.274	0.422	0.784

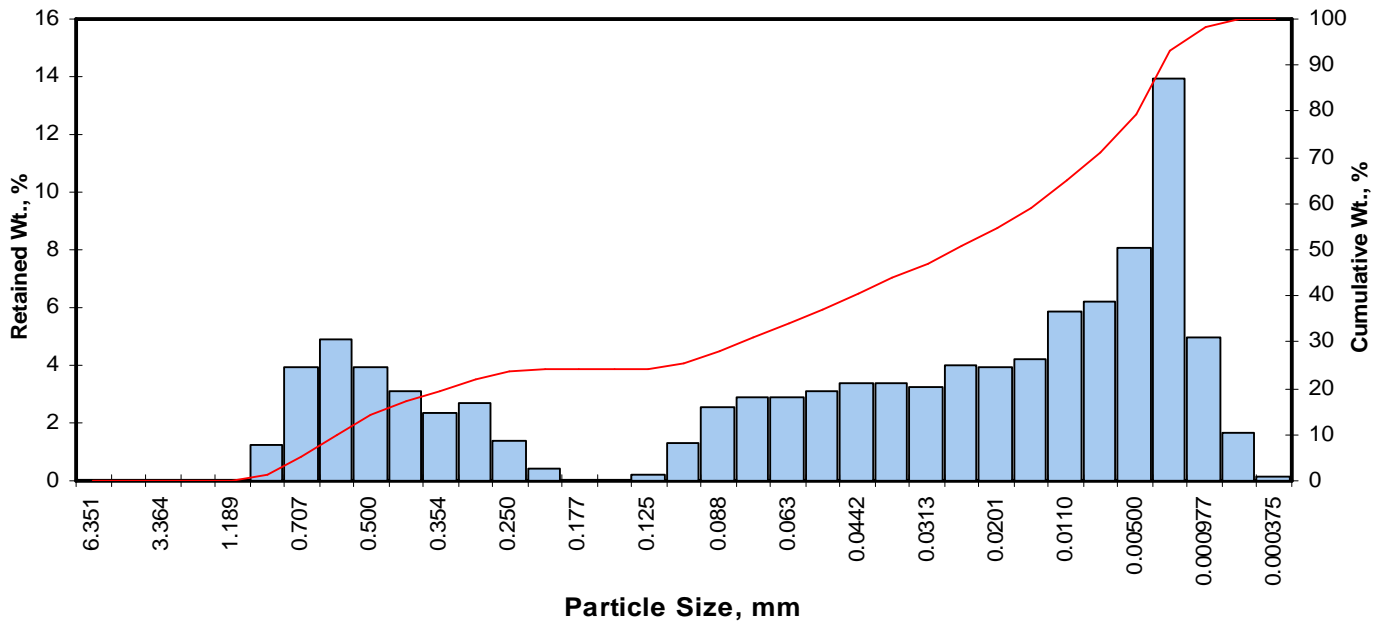
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.58
Fine Sand	200	19.25
Silt	>0.005 mm	57.10
Clay	<0.005 mm	23.08
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI7-122.5-123.0
 Depth, ft: 122.5-122.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	1.26	1.26	1.26
0.0278	0.707	0.50	25	3.95	3.95	5.21
0.0234	0.595	0.75	30	4.90	4.90	10.11
0.0197	0.500	1.00	35	3.92	3.92	14.03
0.0166	0.420	1.25	40	3.12	3.12	17.15
0.0139	0.354	1.50	45	2.31	2.31	19.46
0.0117	0.297	1.75	50	2.72	2.72	22.18
0.0098	0.250	2.00	60	1.41	1.41	23.59
0.0083	0.210	2.25	70	0.42	0.42	24.01
0.0070	0.177	2.50	80	0.03	0.03	24.04
0.0059	0.149	2.75	100	0.00	0.00	24.05
0.0049	0.125	3.00	120	0.22	0.22	24.27
0.0041	0.105	3.25	140	1.31	1.31	25.58
0.0035	0.088	3.50	170	2.52	2.52	28.10
0.0029	0.074	3.75	200	2.89	2.89	30.99
0.0025	0.063	4.00	230	2.89	2.89	33.88
0.0021	0.053	4.25	270	3.10	3.10	36.98
0.00174	0.0442	4.50	325	3.41	3.41	40.39
0.00146	0.0372	4.75	400	3.40	3.40	43.79
0.00123	0.0313	5.00	450	3.22	3.22	47.01
0.000986	0.0250	5.32	500	3.98	3.98	50.99
0.000790	0.0201	5.64	635	3.96	3.96	54.95
0.000615	0.0156	6.00		4.23	4.23	59.18
0.000435	0.0110	6.50		5.88	5.88	65.06
0.000308	0.00781	7.00		6.18	6.18	71.24
0.000197	0.00500	7.65		8.06	8.06	79.31
0.000077	0.00195	9.00		13.90	13.90	93.21
0.000038	0.000977	10.00		4.99	4.99	98.20
0.000019	0.000488	11.00		1.66	1.66	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.49	0.0281	0.714
10	0.74	0.0235	0.597
16	1.16	0.0176	0.448
25	3.14	0.0045	0.113
40	4.47	0.0018	0.045
50	5.24	0.0010	0.026
60	6.07	0.0006	0.015
75	7.30	0.0002	0.006
84	8.10	0.0001	0.004
90	8.69	0.0001	0.002
95	9.36	0.0001	0.002

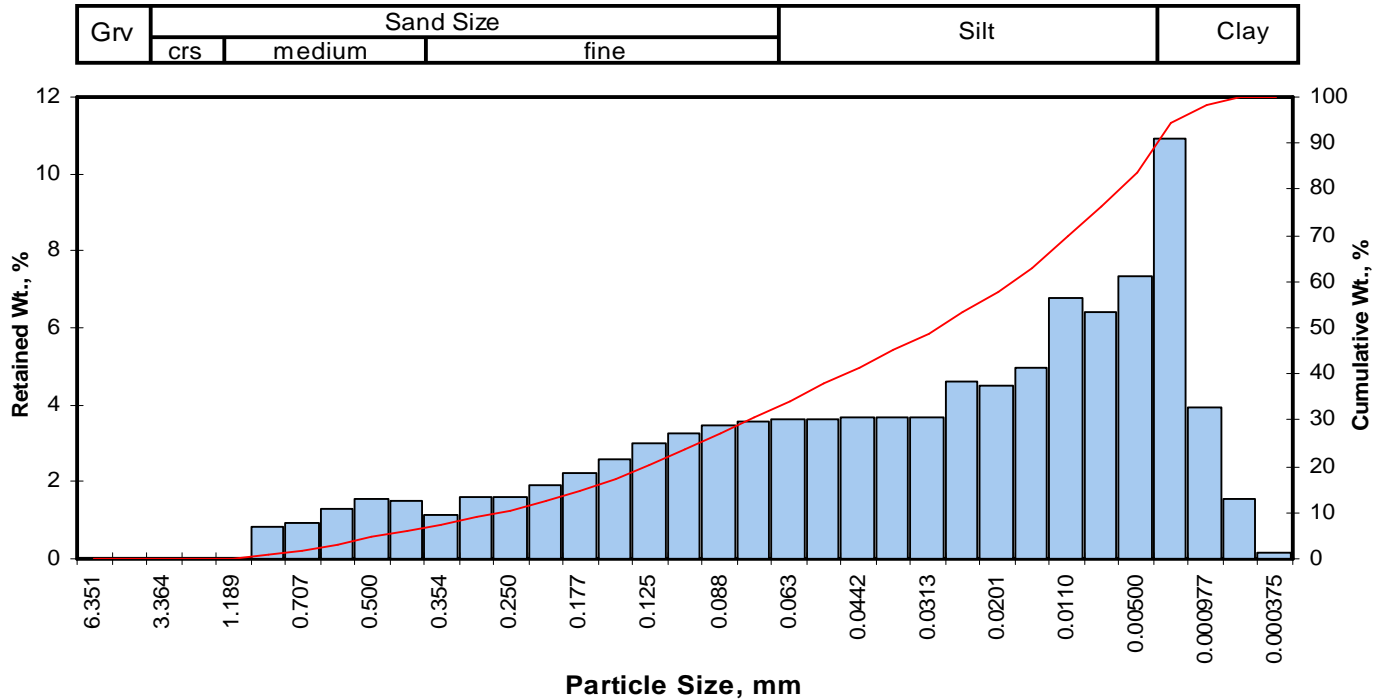
Measure	Trask	Inman	Folk-Ward
Median, phi	5.24	5.24	5.24
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.026	0.026	0.026
Mean, phi	4.06	4.63	4.83
Mean, in.	0.0024	0.0016	0.0014
Mean, mm	0.060	0.040	0.035
Sorting	4.229	3.472	3.080
Skewness	1.014	-0.176	-0.124
Kurtosis	0.090	0.278	0.874

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	17.15
Fine Sand	200	13.83
Silt	>0.005 mm	48.32
Clay	<0.005 mm	20.69
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI18-21.0-21.3
 Depth, ft: 21.0-21.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.02	0.02	0.02
0.0331	0.841	0.25	20	0.85	0.85	0.87
0.0278	0.707	0.50	25	0.94	0.94	1.81
0.0234	0.595	0.75	30	1.29	1.29	3.10
0.0197	0.500	1.00	35	1.56	1.56	4.66
0.0166	0.420	1.25	40	1.50	1.50	6.16
0.0139	0.354	1.50	45	1.13	1.13	7.28
0.0117	0.297	1.75	50	1.58	1.58	8.86
0.0098	0.250	2.00	60	1.63	1.63	10.49
0.0083	0.210	2.25	70	1.94	1.94	12.43
0.0070	0.177	2.50	80	2.23	2.23	14.66
0.0059	0.149	2.75	100	2.60	2.60	17.26
0.0049	0.125	3.00	120	2.98	2.98	20.24
0.0041	0.105	3.25	140	3.28	3.28	23.52
0.0035	0.088	3.50	170	3.47	3.47	26.99
0.0029	0.074	3.75	200	3.59	3.59	30.57
0.0025	0.063	4.00	230	3.64	3.64	34.21
0.0021	0.053	4.25	270	3.64	3.64	37.85
0.00174	0.0442	4.50	325	3.66	3.66	41.51
0.00146	0.0372	4.75	400	3.67	3.67	45.18
0.00123	0.0313	5.00	450	3.66	3.66	48.83
0.000986	0.0250	5.32	500	4.60	4.60	53.43
0.000790	0.0201	5.64	635	4.52	4.52	57.95
0.000615	0.0156	6.00		4.96	4.96	62.91
0.000435	0.0110	6.50		6.80	6.80	69.70
0.000308	0.00781	7.00		6.43	6.43	76.13
0.000197	0.00500	7.65		7.34	7.34	83.47
0.000077	0.00195	9.00		10.90	10.89	94.36
0.000038	0.000977	10.00		3.93	3.93	98.29
0.000019	0.000488	11.00		1.57	1.57	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.06	0.0189	0.480
10	1.92	0.0104	0.263
16	2.63	0.0064	0.162
25	3.36	0.0038	0.098
40	4.40	0.0019	0.047
50	5.08	0.0012	0.030
60	5.79	0.0007	0.018
75	6.91	0.0003	0.008
84	7.71	0.0002	0.005
90	8.46	0.0001	0.003
95	9.16	0.0001	0.002

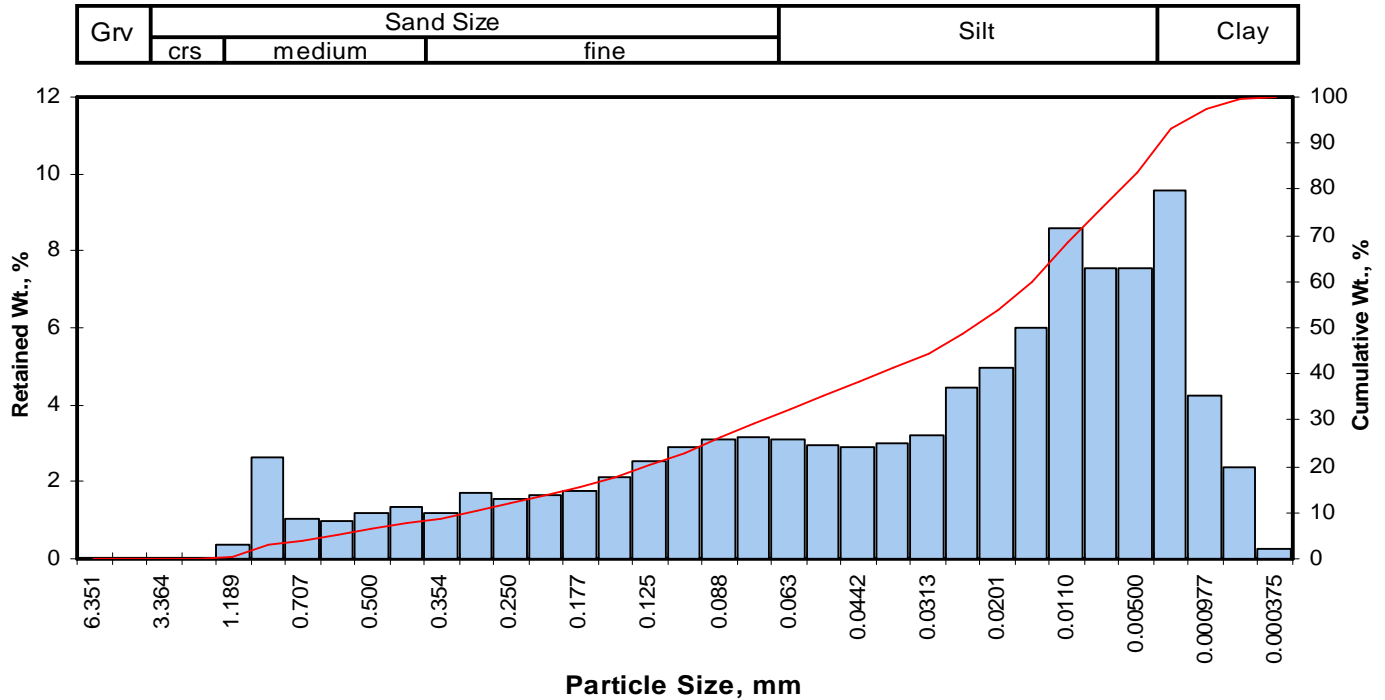
Measure	Trask	Inman	Folk-Ward
Median, phi	5.08	5.08	5.08
Median, in.	0.0012	0.0012	0.0012
Median, mm	0.030	0.030	0.030
Mean, phi	4.24	5.17	5.14
Mean, in.	0.0021	0.0011	0.0011
Mean, mm	0.053	0.028	0.028
Sorting	3.428	2.541	2.499
Skewness	0.964	0.035	0.021
Kurtosis	0.171	0.595	0.934

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	6.16
Fine Sand	200	24.42
Silt	>0.005 mm	52.89
Clay	<0.005 mm	16.53
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI18-24.7-25.0
 Depth, ft: 24.7-25.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.36	0.36	0.36
0.0331	0.841	0.25	20	2.65	2.65	3.01
0.0278	0.707	0.50	25	1.06	1.06	4.07
0.0234	0.595	0.75	30	1.00	1.00	5.07
0.0197	0.500	1.00	35	1.20	1.20	6.27
0.0166	0.420	1.25	40	1.37	1.37	7.64
0.0139	0.354	1.50	45	1.19	1.19	8.83
0.0117	0.297	1.75	50	1.70	1.70	10.53
0.0098	0.250	2.00	60	1.54	1.54	12.07
0.0083	0.210	2.25	70	1.64	1.64	13.71
0.0070	0.177	2.50	80	1.78	1.78	15.49
0.0059	0.149	2.75	100	2.11	2.11	17.60
0.0049	0.125	3.00	120	2.53	2.53	20.13
0.0041	0.105	3.25	140	2.88	2.88	23.01
0.0035	0.088	3.50	170	3.08	3.08	26.10
0.0029	0.074	3.75	200	3.14	3.14	29.24
0.0025	0.063	4.00	230	3.09	3.09	32.33
0.0021	0.053	4.25	270	2.97	2.97	35.30
0.00174	0.0442	4.50	325	2.92	2.92	38.22
0.00146	0.0372	4.75	400	3.01	3.01	41.23
0.00123	0.0313	5.00	450	3.21	3.21	44.44
0.000986	0.0250	5.32	500	4.46	4.46	48.90
0.000790	0.0201	5.64	635	4.96	4.96	53.86
0.000615	0.0156	6.00		6.01	6.01	59.87
0.000435	0.0110	6.50		8.57	8.57	68.44
0.000308	0.00781	7.00		7.57	7.57	76.02
0.000197	0.00500	7.65		7.54	7.54	83.56
0.000077	0.00195	9.00		9.55	9.55	93.11
0.000038	0.000977	10.00		4.24	4.24	97.35
0.000019	0.000488	11.00		2.40	2.40	99.75
0.000015	0.000375	11.38		0.25	0.25	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.73	0.0237	0.602
10	1.67	0.0124	0.314
16	2.56	0.0067	0.170
25	3.41	0.0037	0.094
40	4.65	0.0016	0.040
50	5.39	0.0009	0.024
60	6.01	0.0006	0.016
75	6.93	0.0003	0.008
84	7.71	0.0002	0.005
90	8.56	0.0001	0.003
95	9.45	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.39	5.39	5.39
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.024	0.024	0.024
Mean, phi	4.29	5.13	5.22
Mean, in.	0.0020	0.0011	0.0011
Mean, mm	0.051	0.028	0.027
Sorting	3.389	2.574	2.607
Skewness	1.164	-0.100	-0.085
Kurtosis	0.138	0.693	1.014

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.64
Fine Sand	200	21.59
Silt	>0.005 mm	54.32
Clay	<0.005 mm	16.44
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3B

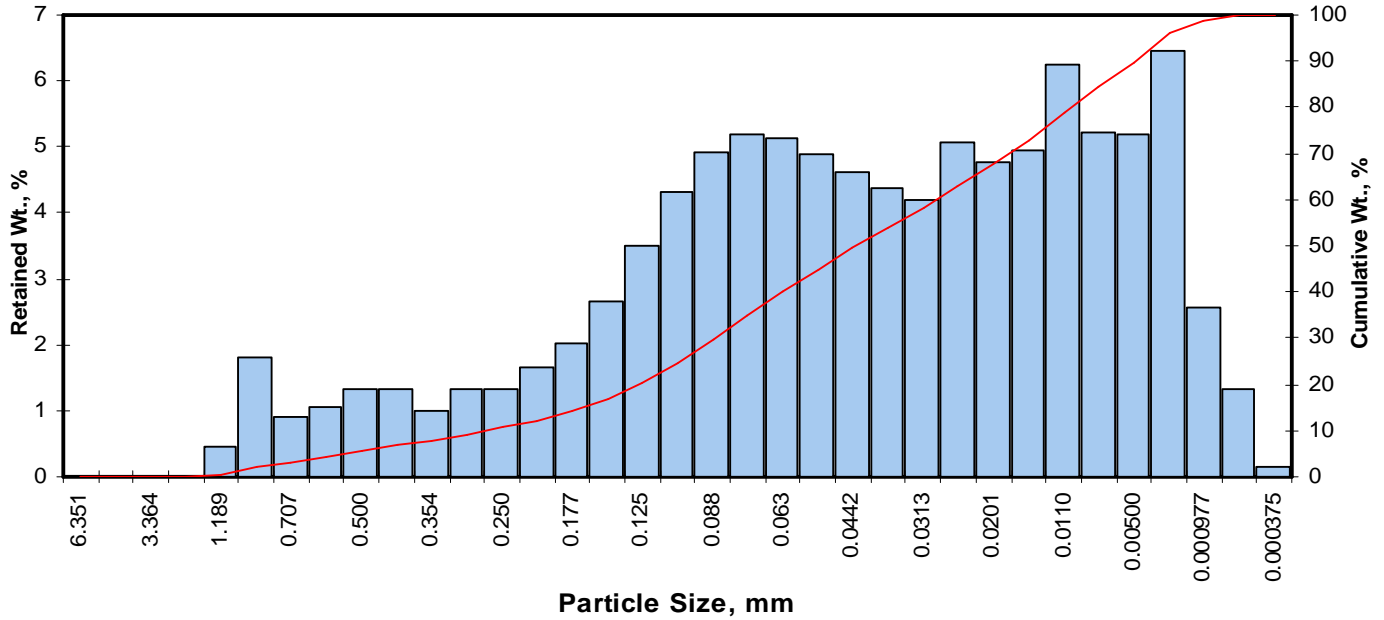
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI18-26.5-26.8	26.5-26.8	Silt	0.043	0.00	0.00	6.92	27.93	54.65	10.50	65.15
PT-RI18-33.0-33.3	33.0-33.3	Silt	0.036	0.00	0.00	2.76	27.46	55.55	14.23	69.78
PT-RI18-53.5-54.0	53.5-53.7	Silt	0.023	0.00	0.00	3.89	21.47	54.09	20.55	74.64
PT-RI18-67.5-67.8	67.5-67.8	Silt	0.034	0.00	0.00	0.00	20.85	62.04	17.12	79.15
PT-RI18-93.5-94.0	93.5-93.7	Fine sand	0.254	0.00	0.00	34.58	27.03	28.16	10.23	38.39
PT-RI18-104.0-104.5	104.0-104.2	Fine sand	0.094	0.00	0.00	36.59	15.77	35.05	12.59	47.64

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI18-26.5-26.8
 Depth, ft: 26.5-26.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.45	0.45	0.45
0.0331	0.841	0.25	20	1.82	1.82	2.27
0.0278	0.707	0.50	25	0.92	0.92	3.19
0.0234	0.595	0.75	30	1.07	1.07	4.26
0.0197	0.500	1.00	35	1.32	1.32	5.58
0.0166	0.420	1.25	40	1.34	1.34	6.92
0.0139	0.354	1.50	45	1.00	1.00	7.92
0.0117	0.297	1.75	50	1.34	1.34	9.26
0.0098	0.250	2.00	60	1.34	1.34	10.60
0.0083	0.210	2.25	70	1.65	1.65	12.25
0.0070	0.177	2.50	80	2.02	2.02	14.27
0.0059	0.149	2.75	100	2.66	2.66	16.93
0.0049	0.125	3.00	120	3.50	3.50	20.43
0.0041	0.105	3.25	140	4.32	4.32	24.75
0.0035	0.088	3.50	170	4.91	4.91	29.67
0.0029	0.074	3.75	200	5.18	5.18	34.85
0.0025	0.063	4.00	230	5.14	5.14	39.99
0.0021	0.053	4.25	270	4.89	4.89	44.88
0.00174	0.0442	4.50	325	4.61	4.61	49.49
0.00146	0.0372	4.75	400	4.36	4.36	53.85
0.00123	0.0313	5.00	450	4.18	4.18	58.03
0.000986	0.0250	5.32	500	5.07	5.07	63.10
0.000790	0.0201	5.64	635	4.77	4.77	67.87
0.000615	0.0156	6.00		4.96	4.96	72.83
0.000435	0.0110	6.50		6.23	6.23	79.07
0.000308	0.00781	7.00		5.23	5.23	84.30
0.000197	0.00500	7.65		5.20	5.20	89.50
0.000077	0.00195	9.00		6.46	6.46	95.96
0.000038	0.000977	10.00		2.56	2.56	98.52
0.000019	0.000488	11.00		1.34	1.34	99.86
0.000015	0.000375	11.38		0.14	0.14	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.89	0.0212	0.540
10	1.89	0.0106	0.270
16	2.66	0.0062	0.158
25	3.26	0.0041	0.104
40	4.00	0.0025	0.062
50	4.53	0.0017	0.043
60	5.12	0.0011	0.029
75	6.17	0.0005	0.014
84	6.97	0.0003	0.008
90	7.75	0.0002	0.005
95	8.80	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.53	4.53	4.53
Median, in.	0.0017	0.0017	0.0017
Median, mm	0.043	0.043	0.043
Mean, phi	4.08	4.82	4.72
Mean, in.	0.0023	0.0014	0.0015
Mean, mm	0.059	0.035	0.038
Sorting	2.743	2.155	2.276
Skewness	0.877	0.134	0.107
Kurtosis	0.170	0.835	1.113

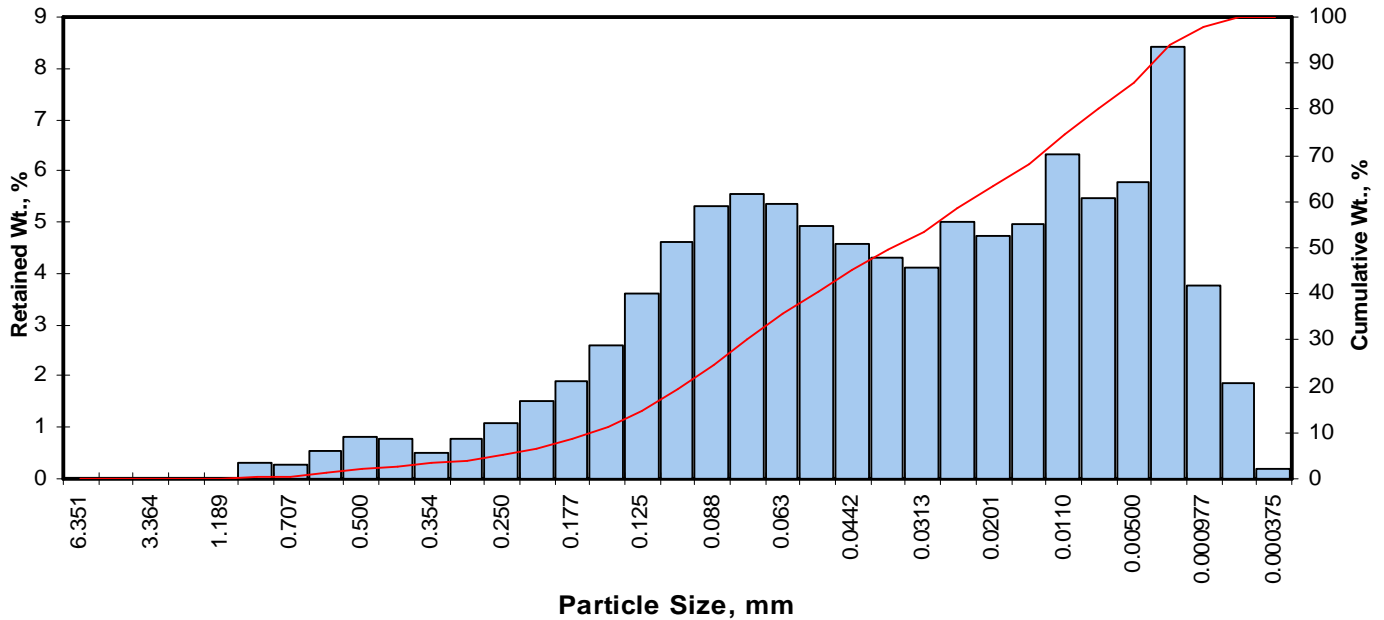
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	6.92
Fine Sand	200	27.93
Silt	>0.005 mm	54.65
Clay	<0.005 mm	10.50
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI18-33.0-33.3
 Depth, ft: 33.0-33.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.01	0.01	0.01
0.0331	0.841	0.25	20	0.31	0.31	0.32
0.0278	0.707	0.50	25	0.29	0.29	0.61
0.0234	0.595	0.75	30	0.53	0.53	1.14
0.0197	0.500	1.00	35	0.83	0.83	1.97
0.0166	0.420	1.25	40	0.79	0.79	2.76
0.0139	0.354	1.50	45	0.52	0.52	3.28
0.0117	0.297	1.75	50	0.79	0.79	4.07
0.0098	0.250	2.00	60	1.07	1.07	5.14
0.0083	0.210	2.25	70	1.52	1.52	6.66
0.0070	0.177	2.50	80	1.92	1.92	8.58
0.0059	0.149	2.75	100	2.60	2.60	11.18
0.0049	0.125	3.00	120	3.59	3.59	14.77
0.0041	0.105	3.25	140	4.60	4.60	19.37
0.0035	0.088	3.50	170	5.30	5.30	24.67
0.0029	0.074	3.75	200	5.55	5.55	30.22
0.0025	0.063	4.00	230	5.37	5.37	35.59
0.0021	0.053	4.25	270	4.94	4.94	40.53
0.00174	0.0442	4.50	325	4.56	4.56	45.09
0.00146	0.0372	4.75	400	4.29	4.29	49.38
0.00123	0.0313	5.00	450	4.12	4.12	53.50
0.000986	0.0250	5.32	500	5.01	5.01	58.51
0.000790	0.0201	5.64	635	4.72	4.72	63.23
0.000615	0.0156	6.00		4.95	4.95	68.18
0.000435	0.0110	6.50		6.33	6.33	74.51
0.000308	0.00781	7.00		5.48	5.48	79.99
0.000197	0.00500	7.65		5.78	5.78	85.77
0.000077	0.00195	9.00		8.41	8.41	94.18
0.000038	0.000977	10.00		3.75	3.75	97.93
0.000019	0.000488	11.00		1.88	1.88	99.81
0.000015	0.000375	11.38		0.19	0.19	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.97	0.0101	0.256
10	2.64	0.0063	0.161
16	3.07	0.0047	0.119
25	3.51	0.0034	0.087
40	4.22	0.0021	0.054
50	4.79	0.0014	0.036
60	5.42	0.0009	0.023
75	6.54	0.0004	0.011
84	7.45	0.0002	0.006
90	8.33	0.0001	0.003
95	9.22	0.0001	0.002

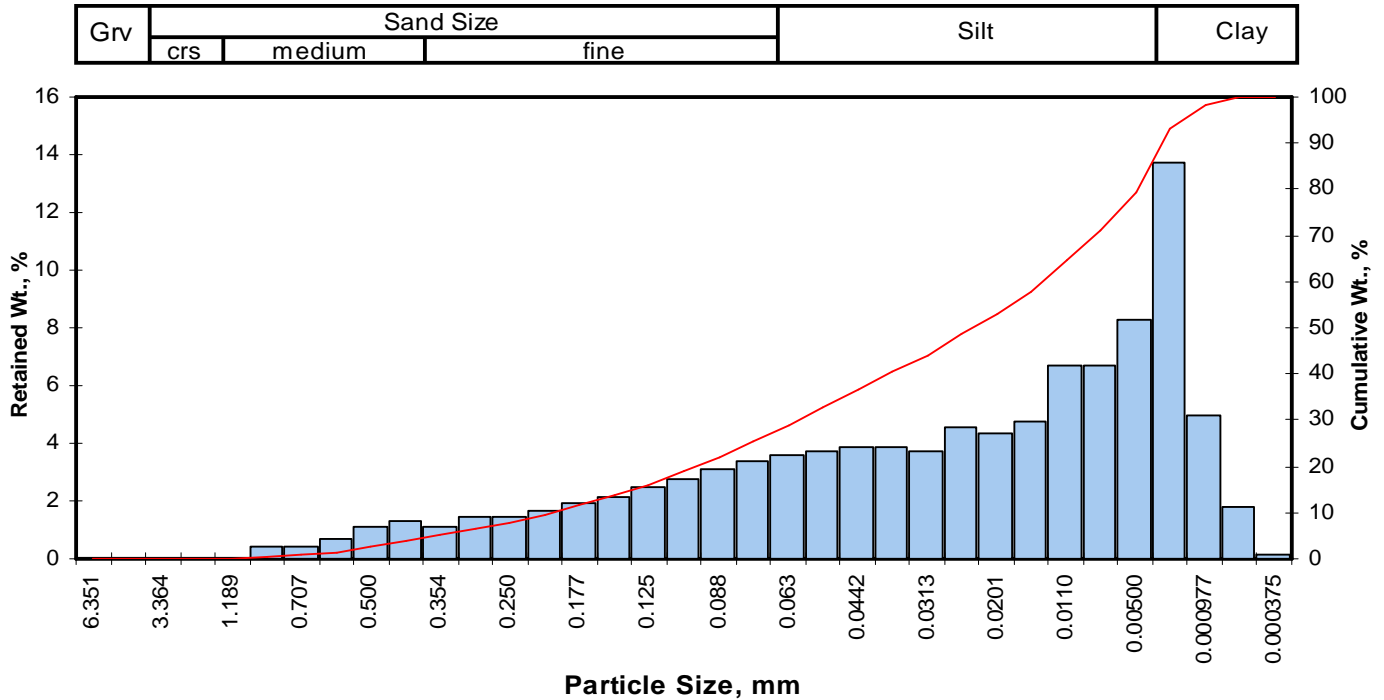
Measure	Trask	Inman	Folk-Ward
Median, phi	4.79	4.79	4.79
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.036	0.036	0.036
Mean, phi	4.35	5.26	5.10
Mean, in.	0.0019	0.0010	0.0011
Mean, mm	0.049	0.026	0.029
Sorting	2.858	2.190	2.194
Skewness	0.845	0.214	0.218
Kurtosis	0.243	0.655	0.981

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.76
Fine Sand	200	27.46
Silt	>0.005 mm	55.55
Clay	<0.005 mm	14.23
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI18-53.5-54.0
 Depth, ft: 53.5-53.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.01	0.01	0.01
0.0331	0.841	0.25	20	0.42	0.42	0.43
0.0278	0.707	0.50	25	0.40	0.40	0.83
0.0234	0.595	0.75	30	0.66	0.66	1.49
0.0197	0.500	1.00	35	1.09	1.09	2.58
0.0166	0.420	1.25	40	1.31	1.31	3.89
0.0139	0.354	1.50	45	1.07	1.07	4.96
0.0117	0.297	1.75	50	1.47	1.47	6.43
0.0098	0.250	2.00	60	1.44	1.44	7.87
0.0083	0.210	2.25	70	1.69	1.69	9.56
0.0070	0.177	2.50	80	1.90	1.90	11.45
0.0059	0.149	2.75	100	2.17	2.17	13.62
0.0049	0.125	3.00	120	2.49	2.49	16.11
0.0041	0.105	3.25	140	2.79	2.79	18.90
0.0035	0.088	3.50	170	3.08	3.08	21.98
0.0029	0.074	3.75	200	3.38	3.38	25.36
0.0025	0.063	4.00	230	3.62	3.62	28.98
0.0021	0.053	4.25	270	3.76	3.76	32.73
0.00174	0.0442	4.50	325	3.84	3.84	36.57
0.00146	0.0372	4.75	400	3.83	3.83	40.40
0.00123	0.0313	5.00	450	3.75	3.75	44.15
0.000986	0.0250	5.32	500	4.57	4.57	48.72
0.000790	0.0201	5.64	635	4.37	4.37	53.08
0.000615	0.0156	6.00		4.76	4.76	57.84
0.000435	0.0110	6.50		6.66	6.66	64.50
0.000308	0.00781	7.00		6.67	6.67	71.16
0.000197	0.00500	7.65		8.29	8.29	79.45
0.000077	0.00195	9.00		13.70	13.69	93.14
0.000038	0.000977	10.00		4.95	4.95	98.09
0.000019	0.000488	11.00		1.76	1.76	99.85
0.000015	0.000375	11.38		0.15	0.15	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.51	0.0138	0.352
10	2.31	0.0079	0.202
16	2.99	0.0050	0.126
25	3.72	0.0030	0.076
40	4.72	0.0015	0.038
50	5.41	0.0009	0.023
60	6.16	0.0005	0.014
75	7.30	0.0003	0.006
84	8.10	0.0001	0.004
90	8.69	0.0001	0.002
95	9.38	0.0001	0.002

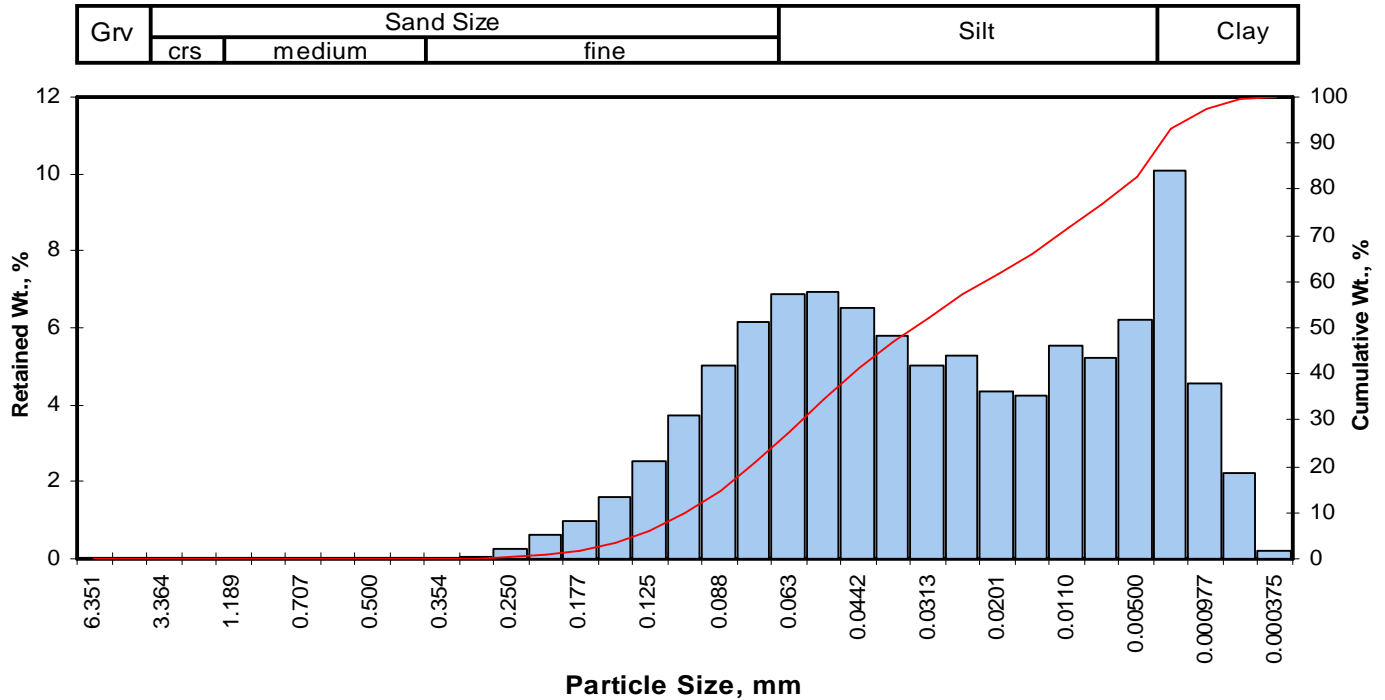
Measure	Trask	Inman	Folk-Ward
Median, phi	5.41	5.41	5.41
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.023	0.023	0.023
Mean, phi	4.61	5.54	5.50
Mean, in.	0.0016	0.0008	0.0009
Mean, mm	0.041	0.021	0.022
Sorting	3.452	2.553	2.469
Skewness	0.935	0.050	0.028
Kurtosis	0.174	0.541	0.902

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.89
Fine Sand	200	21.47
Silt	>0.005 mm	54.09
Clay	<0.005 mm	20.55
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI18-67.5-67.8
 Depth, ft: 67.5-67.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.04	0.04	0.04
0.0098	0.250	2.00	60	0.26	0.26	0.30
0.0083	0.210	2.25	70	0.62	0.62	0.92
0.0070	0.177	2.50	80	0.98	0.98	1.90
0.0059	0.149	2.75	100	1.58	1.58	3.48
0.0049	0.125	3.00	120	2.52	2.52	6.00
0.0041	0.105	3.25	140	3.71	3.71	9.71
0.0035	0.088	3.50	170	4.99	4.99	14.70
0.0029	0.074	3.75	200	6.14	6.14	20.85
0.0025	0.063	4.00	230	6.86	6.86	27.71
0.0021	0.053	4.25	270	6.95	6.95	34.66
0.00174	0.0442	4.50	325	6.54	6.54	41.21
0.00146	0.0372	4.75	400	5.81	5.81	47.02
0.00123	0.0313	5.00	450	4.99	4.99	52.01
0.000986	0.0250	5.32	500	5.29	5.29	57.30
0.000790	0.0201	5.64	635	4.35	4.35	61.65
0.000615	0.0156	6.00		4.26	4.26	65.92
0.000435	0.0110	6.50		5.52	5.52	71.44
0.000308	0.00781	7.00		5.24	5.24	76.68
0.000197	0.00500	7.65		6.20	6.20	82.88
0.000077	0.00195	9.00		10.10	10.10	92.99
0.000038	0.000977	10.00		4.57	4.57	97.56
0.000019	0.000488	11.00		2.22	2.22	99.78
0.000015	0.000375	11.38		0.22	0.22	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.90	0.0053	0.134
10	3.26	0.0041	0.104
16	3.55	0.0034	0.085
25	3.90	0.0026	0.067
40	4.45	0.0018	0.046
50	4.90	0.0013	0.034
60	5.52	0.0009	0.022
75	6.84	0.0003	0.009
84	7.79	0.0002	0.005
90	8.60	0.0001	0.003
95	9.44	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.90	4.90	4.90
Median, in.	0.0013	0.0013	0.0013
Median, mm	0.034	0.034	0.034
Mean, phi	4.72	5.67	5.42
Mean, in.	0.0015	0.0008	0.0009
Mean, mm	0.038	0.020	0.023
Sorting	2.769	2.121	2.051
Skewness	0.721	0.365	0.377
Kurtosis	0.287	0.542	0.912

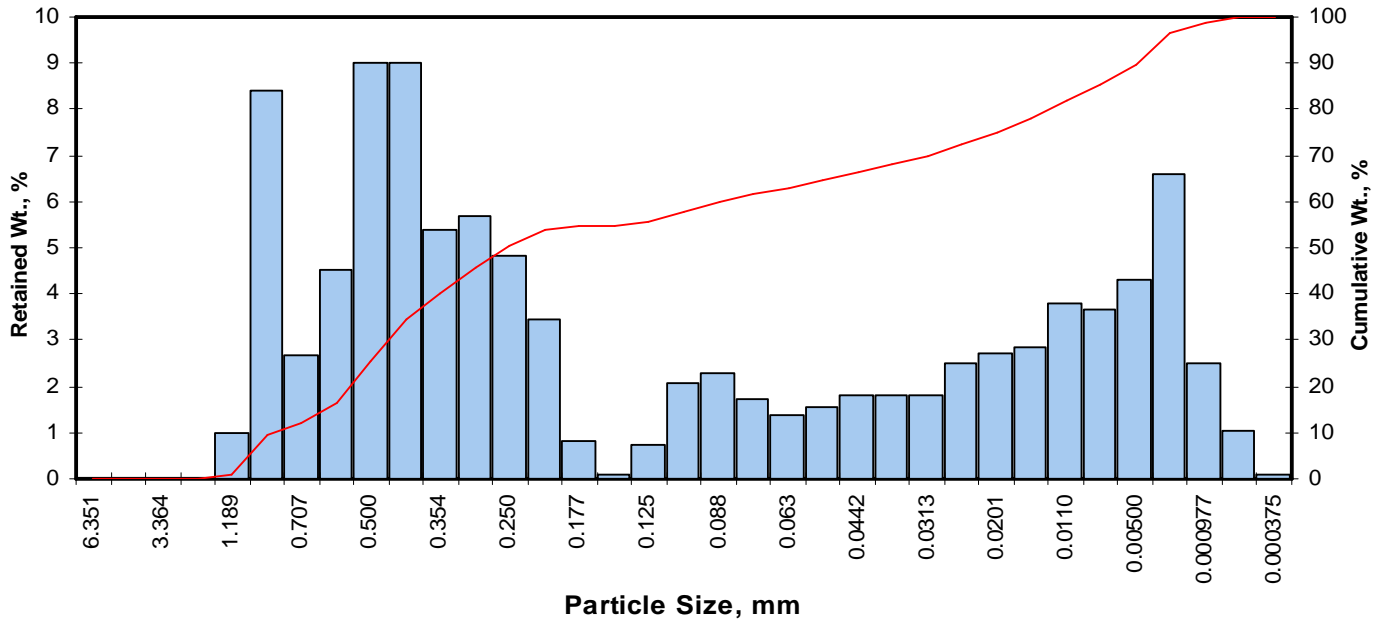
Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	20.85
Silt	>0.005 mm	62.04
Clay	<0.005 mm	17.12
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-RI18-93.5-94.0
 Depth, ft: 93.5-93.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.98	0.98	0.98
0.0331	0.841	0.25	20	8.40	8.40	9.38
0.0278	0.707	0.50	25	2.67	2.67	12.05
0.0234	0.595	0.75	30	4.53	4.53	16.58
0.0197	0.500	1.00	35	8.99	8.99	25.57
0.0166	0.420	1.25	40	9.01	9.01	34.58
0.0139	0.354	1.50	45	5.37	5.37	39.95
0.0117	0.297	1.75	50	5.70	5.70	45.65
0.0098	0.250	2.00	60	4.83	4.83	50.48
0.0083	0.210	2.25	70	3.45	3.45	53.93
0.0070	0.177	2.50	80	0.81	0.81	54.74
0.0059	0.149	2.75	100	0.07	0.07	54.81
0.0049	0.125	3.00	120	0.75	0.75	55.56
0.0041	0.105	3.25	140	2.06	2.06	57.62
0.0035	0.088	3.50	170	2.28	2.28	59.90
0.0029	0.074	3.75	200	1.71	1.71	61.61
0.0025	0.063	4.00	230	1.37	1.37	62.98
0.0021	0.053	4.25	270	1.54	1.54	64.52
0.00174	0.0442	4.50	325	1.82	1.82	66.34
0.00146	0.0372	4.75	400	1.81	1.81	68.15
0.00123	0.0313	5.00	450	1.80	1.80	69.95
0.000986	0.0250	5.32	500	2.51	2.51	72.46
0.000790	0.0201	5.64	635	2.70	2.70	75.16
0.000615	0.0156	6.00		2.84	2.84	78.00
0.000435	0.0110	6.50		3.80	3.80	81.80
0.000308	0.00781	7.00		3.67	3.67	85.47
0.000197	0.00500	7.65		4.30	4.30	89.77
0.000077	0.00195	9.00		6.61	6.61	96.38
0.000038	0.000977	10.00		2.51	2.51	98.89
0.000019	0.000488	11.00		1.02	1.02	99.91
0.000015	0.000375	11.38		0.09	0.09	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.01	0.0397	1.007
10	0.31	0.0318	0.808
16	0.72	0.0239	0.608
25	0.98	0.0199	0.506
40	1.50	0.0139	0.353
50	1.98	0.0100	0.254
60	3.52	0.0034	0.087
75	5.62	0.0008	0.020
84	6.80	0.0004	0.009
90	7.69	0.0002	0.005
95	8.72	0.0001	0.002

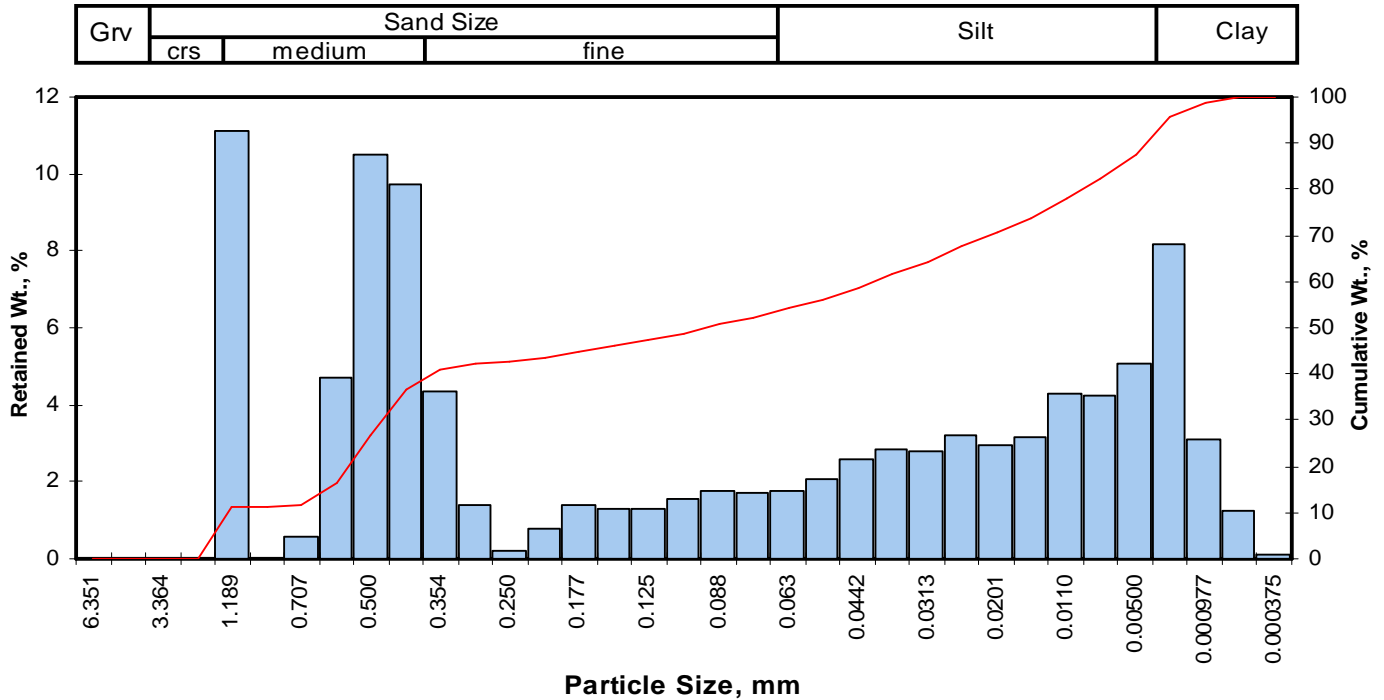
Measure	Trask	Inman	Folk-Ward
Median, phi	1.98	1.98	1.98
Median, in.	0.0100	0.0100	0.0100
Median, mm	0.254	0.254	0.254
Mean, phi	1.93	3.76	3.16
Mean, in.	0.0104	0.0029	0.0044
Mean, mm	0.263	0.074	0.112
Sorting	4.989	3.041	2.843
Skewness	0.398	0.587	0.566
Kurtosis	0.302	0.435	0.771

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	34.58
Fine Sand	200	27.03
Silt	>0.005 mm	28.16
Clay	<0.005 mm	10.23
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3B

PTS File No: 47229
 Sample ID: PT-R118-104.0-104.5
 Depth, ft: 104.0-104.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	11.10	11.10	11.10
0.0331	0.841	0.25	20	0.02	0.02	11.12
0.0278	0.707	0.50	25	0.55	0.55	11.67
0.0234	0.595	0.75	30	4.69	4.69	16.36
0.0197	0.500	1.00	35	10.50	10.50	26.86
0.0166	0.420	1.25	40	9.72	9.72	36.59
0.0139	0.354	1.50	45	4.35	4.35	40.94
0.0117	0.297	1.75	50	1.38	1.38	42.32
0.0098	0.250	2.00	60	0.21	0.21	42.53
0.0083	0.210	2.25	70	0.80	0.80	43.33
0.0070	0.177	2.50	80	1.40	1.40	44.73
0.0059	0.149	2.75	100	1.31	1.31	46.04
0.0049	0.125	3.00	120	1.30	1.30	47.34
0.0041	0.105	3.25	140	1.57	1.57	48.91
0.0035	0.088	3.50	170	1.74	1.74	50.65
0.0029	0.074	3.75	200	1.71	1.71	52.36
0.0025	0.063	4.00	230	1.75	1.75	54.11
0.0021	0.053	4.25	270	2.08	2.08	56.19
0.00174	0.0442	4.50	325	2.59	2.59	58.78
0.00146	0.0372	4.75	400	2.85	2.85	61.63
0.00123	0.0313	5.00	450	2.78	2.78	64.41
0.000986	0.0250	5.32	500	3.23	3.23	67.64
0.000790	0.0201	5.64	635	2.97	2.97	70.61
0.000615	0.0156	6.00		3.16	3.16	73.77
0.000435	0.0110	6.50		4.31	4.31	78.08
0.000308	0.00781	7.00		4.23	4.23	82.32
0.000197	0.00500	7.65		5.09	5.09	87.41
0.000077	0.00195	9.00		8.15	8.15	95.56
0.000038	0.000977	10.00		3.10	3.10	98.66
0.000019	0.000488	11.00		1.23	1.23	99.89
0.000015	0.000375	11.38		0.11	0.11	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.66	0.0623	1.583
10	-0.32	0.0493	1.252
16	0.73	0.0237	0.603
25	0.96	0.0203	0.516
40	1.45	0.0144	0.367
50	3.41	0.0037	0.094
60	4.61	0.0016	0.041
75	6.14	0.0006	0.014
84	7.21	0.0003	0.007
90	8.08	0.0001	0.004
95	8.91	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	3.41	3.41	3.41
Median, in.	0.0037	0.0037	0.0037
Median, mm	0.094	0.094	0.094
Mean, phi	1.92	3.97	3.78
Mean, in.	0.0104	0.0025	0.0029
Mean, mm	0.265	0.064	0.073
Sorting	6.035	3.241	3.071
Skewness	0.906	0.174	0.162
Kurtosis	0.201	0.476	0.756

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	36.59
Fine Sand	200	15.77
Silt	>0.005 mm	35.05
Clay	<0.005 mm	12.59
Total		100

PARTICLE SIZE SUMMARY

(METHODOLOGY: Sieve + Laser Diffraction Analysis - ASTM D422/4464)

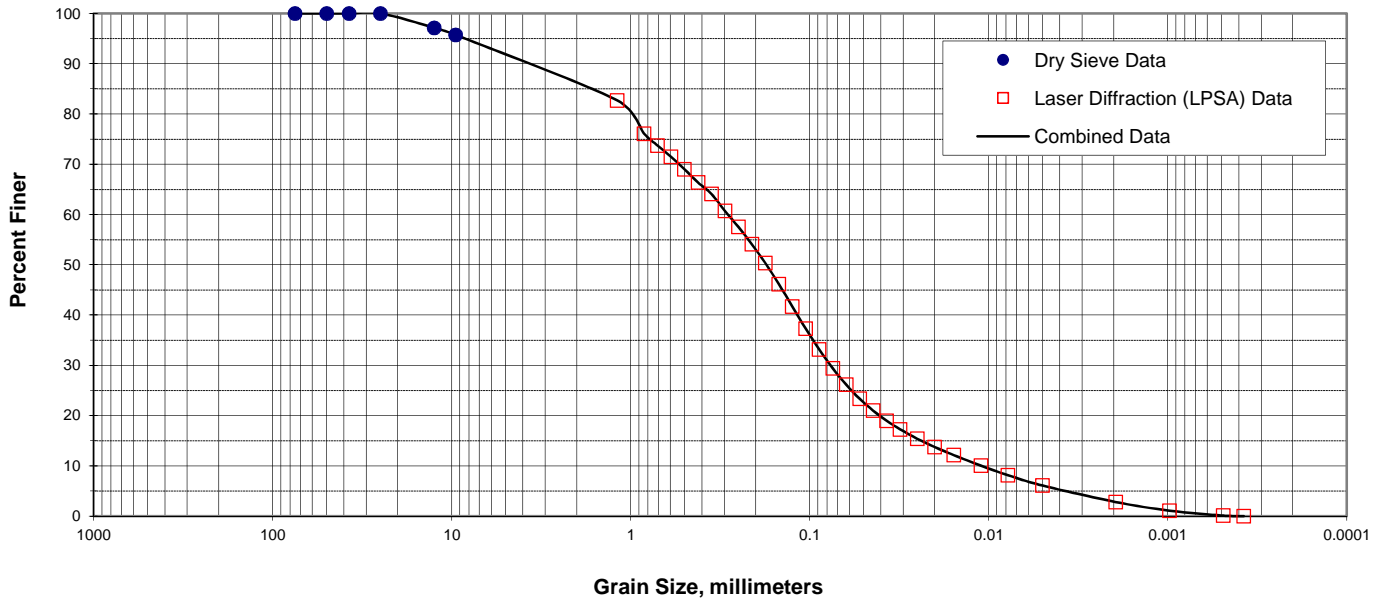
PROJECT NAME: NERT
PROJECT NO: 2141400C, MO3D

Sample ID	Depth, ft.	Median Grain Size Description	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI9-16.0-16.5	16.0-16.4	Fine sand	0.174	9.00	5.00	19.40	36.94	23.34	6.08	29.42
PT-RI24-22.0-22.3	22.0-22.3	Medium sand	1.550	26.11	19.44	20.74	20.52	11.90	1.30	13.20
PT-RI24-27.0-27.3	27.0-27.3	Medium sand	1.901	31.15	18.10	17.31	18.93	9.50	5.00	14.50
PT-RI24-32.0-32.3	32.0-32.3	Medium sand	0.461	17.30	13.63	20.34	30.41	5.80	12.52	18.32
PT-RI24-48.0-48.3	48.0-48.3	Silt	0.034	13.36	2.15	3.93	23.20	41.07	16.31	57.37
PT-RI24-66.5-67.0	66.5-67.0	Medium sand	0.722	1.75	12.61	51.75	20.50	5.90	7.49	13.39
PT-RI24-68.7-69.0	68.7-69.0	Fine sand	0.094	30.88	1.33	3.29	18.86	31.19	14.45	45.64
PT-RI25-22.5-22.8	22.5-22.8	Medium sand	1.151	10.58	26.02	33.32	21.66	5.00	3.40	8.40
PT-RI25-28.0-28.3	28.0-28.3	Medium sand	0.618	16.96	18.65	18.09	18.95	20.25	7.09	27.34
PT-RI25-36.2-36.5	36.2-36.5	Fine sand	0.144	27.72	6.26	8.10	19.62	25.00	13.30	38.30
PT-RI25-106.0-106.3	106.0-106.3	Silt	0.059	0.00	0.25	2.13	28.35	61.32	7.95	69.27
PT-RI18-28.5-28.8	28.5-28.8	Fine sand	0.126	27.87	8.55	6.97	15.47	29.00	12.14	41.14
PT-RI18-40.5-41.0	40.5-40.7	Gravel	7.267	51.67	3.55	4.22	6.61	12.38	21.57	33.95
PT-RI18-44.0-44.3	44.0-44.3	Fine sand	0.149	21.84	11.42	12.06	9.58	27.00	18.11	45.11

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI9-16.0-16.5
Depth, ft: 16.0-16.4

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	2.85	97.15	0.047	1.189	-0.25	16	17.31	82.69
0.374	9.50	-3.25	3/8	4.28	95.72	0.033	0.841	0.25	20	23.92	76.08
0.250	6.35	-2.67	1/4	13.41	86.59	0.028	0.707	0.50	25	26.28	73.72
0.187	4.76	-2.25	4	22.29	77.71	0.023	0.595	0.75	30	28.54	71.46
0.132	3.36	-1.75	6	39.58	60.42	0.020	0.500	1.00	35	31.00	69.00
0.079	2.00	-1.00	10	64.51	35.49	0.017	0.420	1.25	40	33.63	66.37
0.056	1.414	-0.50	14	74.55	25.45	0.0139	0.3536	1.50	45	35.91	64.09
0.039	1.000	0.00	18	80.91	19.09	0.0117	0.2973	1.75	50	39.29	60.71
0.028	0.707	0.50	25	85.36	14.64	0.0098	0.2500	2.00	60	42.47	57.53
0.020	0.500	1.00	35	88.57	11.43	0.0083	0.2102	2.25	70	45.92	54.08
0.017	0.420	1.25	40	89.71	10.29	0.0070	0.1768	2.50	80	49.67	50.33
0.014	0.354	1.50	45	90.82	9.18	0.0059	0.1487	2.75	100	53.84	46.16
0.010	0.250	2.00	60	92.57	7.43	0.0049	0.1250	3.00	120	58.29	41.71
0.007	0.1768	2.50	80	93.88	6.12	0.0041	0.1051	3.25	140	62.72	37.28
0.005	0.1250	3.00	120	95.26	4.74	0.0035	0.0884	3.50	170	66.85	33.15
0.003	0.0743	3.75	200	96.79	3.21	0.0029	0.0743	3.75	200	70.58	29.42
0.002	0.0526	4.25	270	96.92	3.08	0.0025	0.0625	4.00	230	73.85	26.15
0.001	0.0372	4.75	400	96.93	3.07	0.0021	0.0526	4.25	270	76.65	23.35
			PAN	100	0.00	0.0017	0.0442	4.50	325	79.01	20.99
						0.0015	0.0372	4.75	400	81.01	18.99
						0.0012	0.0313	5.00	450	82.73	17.27
						0.0010	0.0250	5.32	500	84.61	15.39
						0.0008	0.0201	5.64	635	86.23	13.77
						0.0006	0.0156	6.00		87.87	12.13
						0.0004	0.0110	6.50		89.97	10.03
						0.0003	0.0078	7.00		91.85	8.15
						0.0002	0.0050	7.65		93.92	6.08
						0.00008	0.00195	9.00		97.19	2.81
						0.00004	0.00098	10.00		98.91	1.09
						0.00002	0.00049	11.00		99.90	0.10
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI9-16.0-16.5
Depth, ft: 16.0-16.4

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	2.8	97.2	2.8
0.374	9.50	-3.25	3/8	1.4	95.7	4.3
0.047	1.19	-0.25	16	13.0	82.7	17.3
0.0331	0.84	0.25	20	6.6	76.1	23.9
0.0278	0.707	0.50	25	2.4	73.7	26.3
0.0234	0.595	0.75	30	2.3	71.5	28.5
0.0197	0.500	1.00	35	2.5	69.0	31.0
0.0166	0.420	1.25	40	2.6	66.4	33.6
0.0139	0.354	1.50	45	2.3	64.1	35.9
0.0117	0.297	1.75	50	3.4	60.7	39.3
0.00984	0.250	2.00	60	3.2	57.5	42.5
0.00828	0.210	2.25	70	3.5	54.1	45.9
0.00696	0.1768	2.50	80	3.8	50.3	49.7
0.00585	0.1487	2.75	100	4.2	46.2	53.8
0.00492	0.1250	3.00	120	4.5	41.7	58.3
0.00414	0.1051	3.25	140	4.4	37.3	62.7
0.00348	0.0884	3.50	170	4.1	33.2	66.8
0.00293	0.0743	3.75	200	3.7	29.4	70.6
0.00246	0.0625	4.00	230	3.3	26.2	73.8
0.00207	0.0526	4.25	270	2.8	23.3	76.7
0.00174	0.0442	4.50	325	2.4	21.0	79.0
0.00146	0.0372	4.75	400	2.0	19.0	81.0
0.00123	0.0313	5.00	450	1.7	17.3	82.7
0.00099	0.0250	5.32	500	1.9	15.4	84.6
0.00079	0.0201	5.64	635	1.6	13.8	86.2
0.00062	0.0156	6.00		1.6	12.1	87.9
0.00043	0.0110	6.50		2.1	10.0	90.0
0.00031	0.0078	7.00		1.9	8.2	91.8
0.00020	0.0050	7.65		2.1	6.1	93.9
0.00008	0.0020	9.00		3.3	2.8	97.2
0.00004	0.0010	10.00		1.7	1.1	98.9
0.00002	0.0005	11.00		1.0	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.08	0.3335	8.472
10	-1.93	0.1502	3.815
16	-0.55	0.0577	1.465
25	0.36	0.0306	0.777
40	1.81	0.0113	0.286
50	2.52	0.0069	0.174
60	3.10	0.0046	0.117
75	4.10	0.0023	0.058
84	5.22	0.0011	0.027
90	6.51	0.0004	0.011
95	8.09	0.0001	0.004

Measure	Trask	Inman	Folk-Ward
Median, phi	2.52	2.52	2.52
Median, in.	0.0069	0.0069	0.0069
Median, mm	0.174	0.174	0.174
Mean, phi	1.26	2.33	2.39
Mean, in.	0.0164	0.0078	0.0075
Mean, mm	0.417	0.199	0.190
Sorting	3.653	2.883	3.135
Skewness	1.219	-0.065	-0.034
Kurtosis	0.094	0.938	1.225
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)		

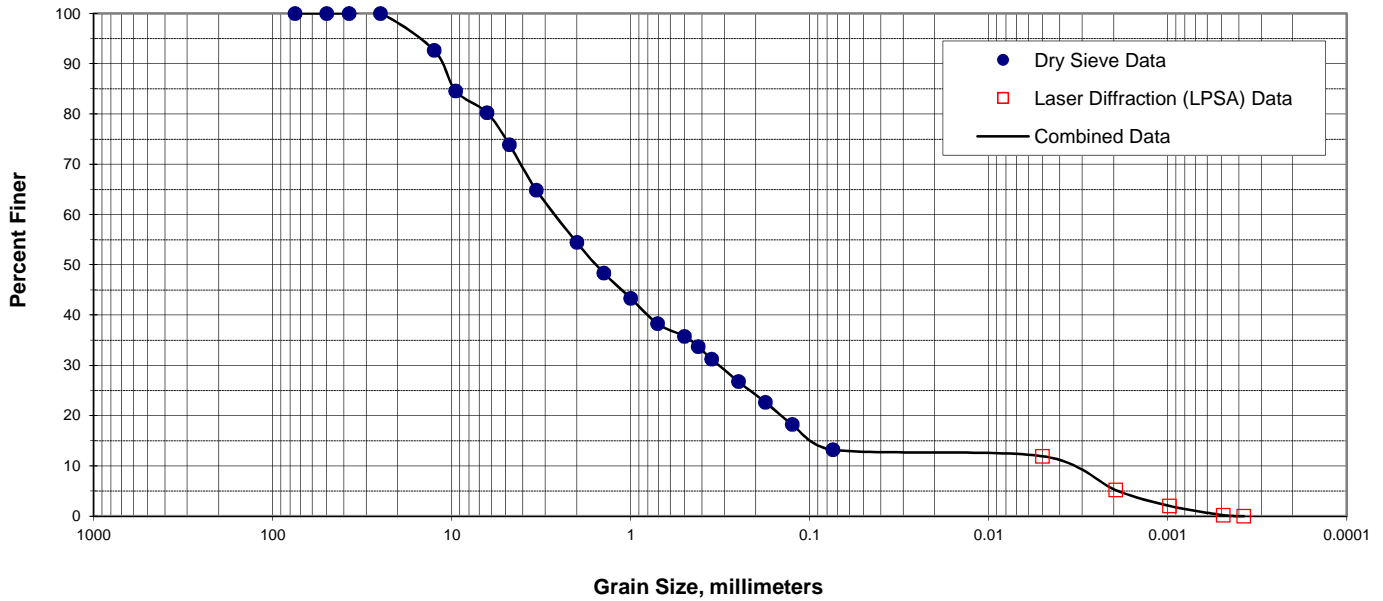
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	9.0
Coarse Sand	10	5.0
Medium Sand	40	19.4
Fine Sand	200	36.9
Silt	>0.005 mm	23.3
Clay	<0.005 mm	6.1
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No.: 2141400C, MO3D

PTS File No.: 47229
Sample ID: PT-RI24-22.0-22.3
Depth, ft: 22.0-22.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	7.36	92.64	0.047	1.189	-0.25	16	1.29	98.71
0.374	9.50	-3.25	3/8	15.40	84.60	0.033	0.841	0.25	20	5.76	94.24
0.250	6.35	-2.67	1/4	19.74	80.26	0.028	0.707	0.50	25	7.53	92.47
0.187	4.76	-2.25	4	26.11	73.89	0.023	0.595	0.75	30	9.19	90.81
0.132	3.36	-1.75	6	35.14	64.86	0.020	0.500	1.00	35	11.04	88.96
0.079	2.00	-1.00	10	45.55	54.45	0.017	0.420	1.25	40	13.11	86.89
0.056	1.414	-0.50	14	51.60	48.40	0.0139	0.3536	1.50	45	14.98	85.02
0.039	1.000	0.00	18	56.63	43.37	0.0117	0.2973	1.75	50	17.88	82.12
0.028	0.707	0.50	25	61.72	38.28	0.0098	0.2500	2.00	60	20.73	79.27
0.020	0.500	1.00	35	64.24	35.76	0.0083	0.2102	2.25	70	23.95	76.05
0.017	0.420	1.25	40	66.28	33.72	0.0070	0.1768	2.50	80	27.53	72.47
0.014	0.354	1.50	45	68.73	31.27	0.0059	0.1487	2.75	100	31.55	68.45
0.010	0.250	2.00	60	73.22	26.78	0.0049	0.1250	3.00	120	35.91	64.09
0.007	0.1768	2.50	80	77.33	22.67	0.0041	0.1051	3.25	140	40.40	59.60
0.005	0.1250	3.00	120	81.74	18.26	0.0035	0.0884	3.50	170	44.83	55.17
0.003	0.0743	3.75	200	86.80	13.20	0.0029	0.0743	3.75	200	49.06	50.94
0.002	0.0526	4.25	270	87.58	12.42	0.0025	0.0625	4.00	230	52.98	47.02
0.001	0.0372	4.75	400	87.68	12.32	0.0021	0.0526	4.25	270	56.57	43.43
			PAN	100	0.00	0.0017	0.0442	4.50	325	59.87	40.13
						0.0015	0.0372	4.75	400	62.91	37.09
						0.0012	0.0313	5.00	450	65.71	34.29
						0.0010	0.0250	5.32	500	68.96	31.04
						0.0008	0.0201	5.64	635	71.96	28.04
						0.0006	0.0156	6.00		75.16	24.84
						0.0004	0.0110	6.50		79.49	20.51
						0.0003	0.0078	7.00		83.54	16.46
						0.0002	0.0050	7.65		88.08	11.92
						0.00008	0.00195	9.00		94.81	5.19
						0.00004	0.00098	10.00		97.97	2.03
						0.00002	0.00049	11.00		99.80	0.20
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI24-22.0-22.3
Depth, ft: 22.0-22.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	7.4	92.6	7.4
0.374	9.50	-3.25	3/8	8.0	84.6	15.4
0.250	6.35	-2.67	1/4	4.3	80.3	19.7
0.1873	4.76	-2.25	4	6.4	73.9	26.1
0.1324	3.364	-1.75	6	9.0	64.9	35.1
0.0787	2.000	-1.00	10	10.4	54.5	45.5
0.0557	1.414	-0.50	14	6.1	48.4	51.6
0.0394	1.000	0.00	18	5.0	43.4	56.6
0.0278	0.707	0.50	25	5.1	38.3	61.7
0.0197	0.500	1.00	35	2.5	35.8	64.2
0.01655	0.420	1.25	40	2.0	33.7	66.3
0.01392	0.354	1.50	45	2.4	31.3	68.7
0.00984	0.2500	2.00	60	4.5	26.8	73.2
0.00696	0.1768	2.50	80	4.1	22.7	77.3
0.00492	0.1250	3.00	120	4.4	18.3	81.7
0.00293	0.0743	3.75	200	5.1	13.2	86.8
0.00020	0.0050	7.65		1.3	11.9	88.1
0.00008	0.0020	9.00		6.7	5.2	94.8
0.00004	0.0010	10.00		3.2	2.0	98.0
0.00002	0.0005	11.00		1.8	0.2	99.8
0.00001	0.0004	11.38		0.2	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.96	0.6145	15.609
10	-3.51	0.4497	11.422
16	-3.17	0.3537	8.983
25	-2.32	0.1969	5.002
40	-1.40	0.1039	2.638
50	-0.63	0.0610	1.550
60	0.33	0.0313	0.795
75	2.22	0.0085	0.215
84	3.34	0.0039	0.099
90	8.03	0.0002	0.004
95	9.06	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.63	-0.63	-0.63
Median, in.	0.0610	0.0610	0.0610
Median, mm	1.550	1.550	1.550
Mean, phi	-1.38	0.08	-0.15
Mean, in.	0.1027	0.0371	0.0438
Mean, mm	2.609	0.943	1.113
Sorting	4.821	3.251	3.599
Skewness	0.669	0.220	0.354
Kurtosis	0.210	1.003	1.176

Grain Size Description Medium sand
 (ASTM-USCS Scale) (based on Trask Median)

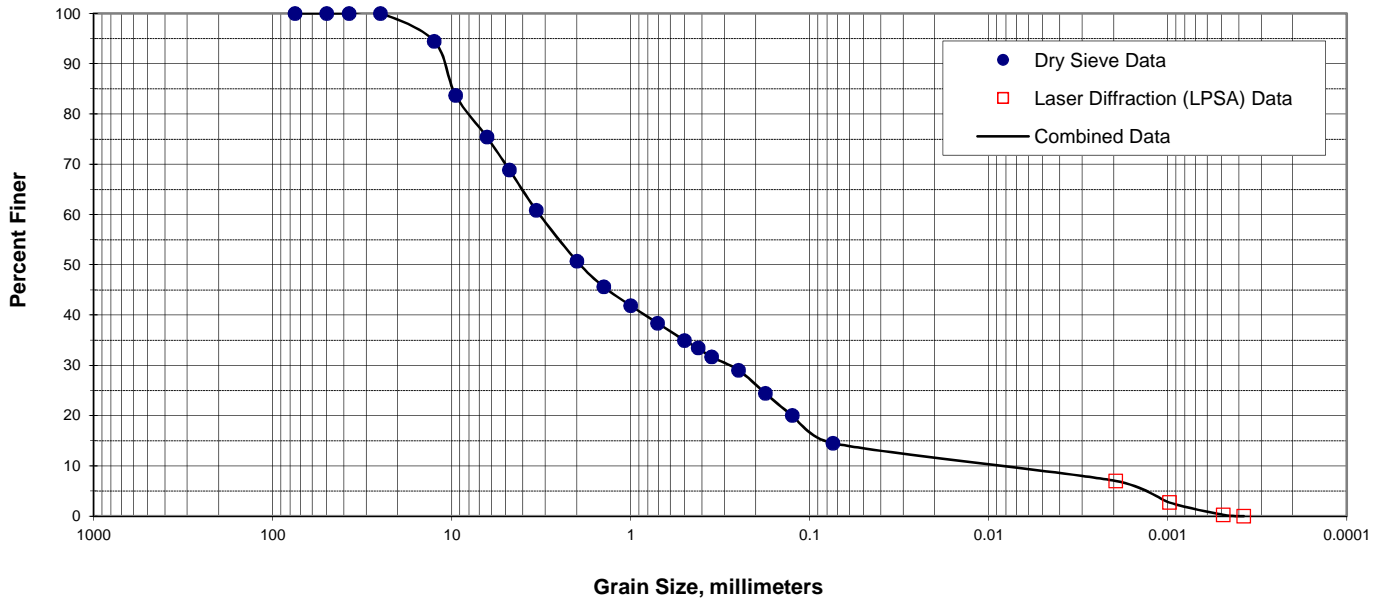
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	26.1
Coarse Sand	10	19.4
Medium Sand	40	20.7
Fine Sand	200	20.5
Silt	>0.005 mm	11.9
Clay	<0.005 mm	1.3
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No.: 2141400C, MO3D

PTS File No.: 47229
Sample ID: PT-RI24-27.0-27.3
Depth, ft: 27.0-27.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	5.52	94.48	0.047	1.189	-0.25	16	0.38	99.62
0.374	9.50	-3.25	3/8	16.30	83.70	0.033	0.841	0.25	20	2.66	97.34
0.250	6.35	-2.67	1/4	24.61	75.39	0.028	0.707	0.50	25	3.38	96.62
0.187	4.76	-2.25	4	31.15	68.85	0.023	0.595	0.75	30	4.25	95.75
0.132	3.36	-1.75	6	39.16	60.84	0.020	0.500	1.00	35	5.50	94.50
0.079	2.00	-1.00	10	49.25	50.75	0.017	0.420	1.25	40	6.82	93.18
0.056	1.414	-0.50	14	54.37	45.63	0.0139	0.3536	1.50	45	7.89	92.11
0.039	1.000	0.00	18	58.13	41.87	0.0117	0.2973	1.75	50	9.69	90.31
0.028	0.707	0.50	25	61.60	38.40	0.0098	0.2500	2.00	60	11.90	88.10
0.020	0.500	1.00	35	65.05	34.95	0.0083	0.2102	2.25	70	14.71	85.29
0.017	0.420	1.25	40	66.55	33.45	0.0070	0.1768	2.50	80	17.95	82.05
0.014	0.354	1.50	45	68.33	31.67	0.0059	0.1487	2.75	100	21.76	78.24
0.010	0.250	2.00	60	70.95	29.05	0.0049	0.1250	3.00	120	26.30	73.70
0.007	0.1768	2.50	80	75.55	24.45	0.0041	0.1051	3.25	140	31.42	68.58
0.005	0.1250	3.00	120	79.96	20.04	0.0035	0.0884	3.50	170	36.73	63.27
0.003	0.0743	3.75	200	85.48	14.52	0.0029	0.0743	3.75	200	41.80	58.20
0.002	0.0526	4.25	270	86.65	13.35	0.0025	0.0625	4.00	230	46.36	53.64
0.001	0.0372	4.75	400	86.90	13.10	0.0021	0.0526	4.25	270	50.38	49.62
			PAN	100	0.00	0.0017	0.0442	4.50	325	54.00	46.00
						0.0015	0.0372	4.75	400	57.36	42.64
						0.0012	0.0313	5.00	450	60.46	39.54
						0.0010	0.0250	5.32	500	64.01	35.99
						0.0008	0.0201	5.64	635	67.19	32.81
						0.0006	0.0156	6.00		70.52	29.48
						0.0004	0.0110	6.50		75.01	24.99
						0.0003	0.0078	7.00		79.35	20.65
						0.0002	0.0050	7.65		84.52	15.48
						0.00008	0.00195	9.00		93.02	6.98
						0.00004	0.00098	10.00		97.29	2.71
						0.00002	0.00049	11.00		99.74	0.26
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI24-27.0-27.3
Depth, ft: 27.0-27.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	5.5	94.5	5.5
0.374	9.50	-3.25	3/8	10.8	83.7	16.3
0.250	6.35	-2.67	1/4	8.3	75.4	24.6
0.1873	4.76	-2.25	4	6.5	68.9	31.1
0.1324	3.364	-1.75	6	8.0	60.8	39.2
0.0787	2.000	-1.00	10	10.1	50.8	49.2
0.0557	1.414	-0.50	14	5.1	45.6	54.4
0.0394	1.000	0.00	18	3.8	41.9	58.1
0.0278	0.707	0.50	25	3.5	38.4	61.6
0.0197	0.500	1.00	35	3.4	35.0	65.0
0.01655	0.420	1.25	40	1.5	33.4	66.6
0.01392	0.354	1.50	45	1.8	31.7	68.3
0.00984	0.2500	2.00	60	2.6	29.0	71.0
0.00696	0.1768	2.50	80	4.6	24.4	75.6
0.00492	0.1250	3.00	120	4.4	20.0	80.0
0.00293	0.0743	3.75	200	5.5	14.5	85.5
0.00008	0.0020	9.00		7.5	7.0	93.0
0.00004	0.0010	10.00		4.3	2.7	97.3
0.00002	0.0005	11.00		2.5	0.3	99.7
0.00001	0.0004	11.38		0.3	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.74	0.5255	13.347
10	-3.48	0.4391	11.154
16	-3.26	0.3769	9.573
25	-2.64	0.2457	6.242
40	-1.69	0.1268	3.221
50	-0.93	0.0748	1.901
60	0.27	0.0327	0.830
75	2.44	0.0073	0.184
84	3.55	0.0034	0.085
90	6.90	0.0003	0.008
95	9.46	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.93	-0.93	-0.93
Median, in.	0.0748	0.0748	0.0748
Median, mm	1.901	1.901	1.901
Mean, phi	-1.68	0.14	-0.21
Mean, in.	0.1265	0.0356	0.0456
Mean, mm	3.213	0.904	1.158
Sorting	5.820	3.404	3.702
Skewness	0.564	0.315	0.444
Kurtosis	0.272	0.939	1.065
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)		

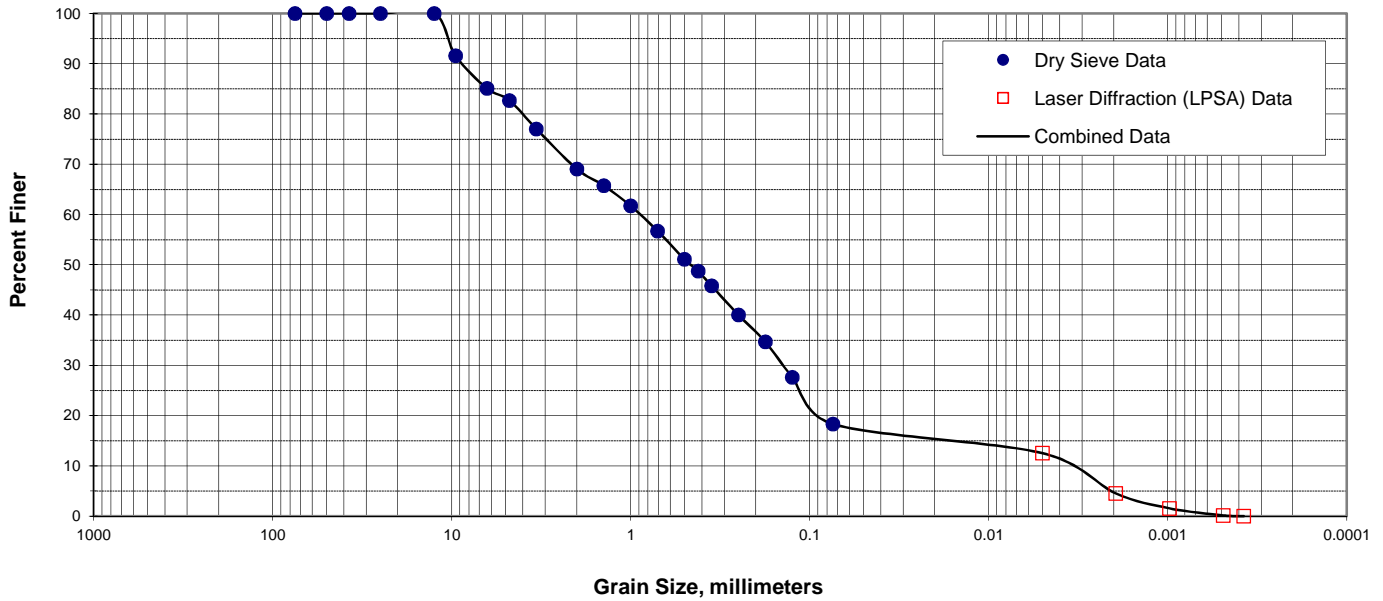
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	31.1
Coarse Sand	10	18.1
Medium Sand	40	17.3
Fine Sand	200	18.9
Silt	>0.005 mm	9.5
Clay	<0.005 mm	5.0
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No.: 2141400C, MO3D

PTS File No.: 47229
Sample ID: PT-RI24-32.0-32.3
Depth, ft: 32.0-32.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	0.26	99.74
0.374	9.50	-3.25	3/8	8.42	91.58	0.033	0.841	0.25	20	1.44	98.56
0.250	6.35	-2.67	1/4	14.89	85.11	0.028	0.707	0.50	25	2.12	97.88
0.187	4.76	-2.25	4	17.30	82.70	0.023	0.595	0.75	30	3.14	96.86
0.132	3.36	-1.75	6	22.97	77.03	0.020	0.500	1.00	35	4.70	95.30
0.079	2.00	-1.00	10	30.93	69.07	0.017	0.420	1.25	40	6.53	93.47
0.056	1.414	-0.50	14	34.23	65.77	0.0139	0.3536	1.50	45	8.11	91.89
0.039	1.000	0.00	18	38.29	61.71	0.0117	0.2973	1.75	50	10.49	89.51
0.028	0.707	0.50	25	43.27	56.73	0.0098	0.2500	2.00	60	12.95	87.05
0.020	0.500	1.00	35	48.91	51.09	0.0083	0.2102	2.25	70	15.86	84.14
0.017	0.420	1.25	40	51.26	48.74	0.0070	0.1768	2.50	80	19.27	80.73
0.014	0.354	1.50	45	54.17	45.83	0.0059	0.1487	2.75	100	23.37	76.63
0.010	0.250	2.00	60	59.98	40.02	0.0049	0.1250	3.00	120	28.13	71.87
0.007	0.1768	2.50	80	65.34	34.66	0.0041	0.1051	3.25	140	33.17	66.83
0.005	0.1250	3.00	120	72.37	27.63	0.0035	0.0884	3.50	170	38.07	61.93
0.003	0.0743	3.75	200	81.68	18.32	0.0029	0.0743	3.75	200	42.59	57.41
0.002	0.0526	4.25	270	83.81	16.19	0.0025	0.0625	4.00	230	46.69	53.31
0.001	0.0372	4.75	400	84.45	15.55	0.0021	0.0526	4.25	270	50.44	49.56
			PAN	100	0.00	0.0017	0.0442	4.50	325	53.97	46.03
						0.0015	0.0372	4.75	400	57.32	42.68
						0.0012	0.0313	5.00	450	60.51	39.49
						0.0010	0.0250	5.32	500	64.33	35.67
						0.0008	0.0201	5.64	635	67.91	32.09
						0.0006	0.0156	6.00		71.72	28.28
						0.0004	0.0110	6.50		76.91	23.09
						0.0003	0.0078	7.00		81.85	18.15
						0.0002	0.0050	7.65		87.48	12.52
						0.00008	0.00195	9.00		95.47	4.53
						0.00004	0.00098	10.00		98.45	1.55
						0.00002	0.00049	11.00		99.86	0.14
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI24-32.0-32.3
Depth, ft: 32.0-32.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	8.4	91.6	8.4
0.250	6.35	-2.67	1/4	6.5	85.1	14.9
0.1873	4.76	-2.25	4	2.4	82.7	17.3
0.1324	3.364	-1.75	6	5.7	77.0	23.0
0.0787	2.000	-1.00	10	8.0	69.1	30.9
0.0557	1.414	-0.50	14	3.3	65.8	34.2
0.0394	1.000	0.00	18	4.1	61.7	38.3
0.0278	0.707	0.50	25	5.0	56.7	43.3
0.0197	0.500	1.00	35	5.6	51.1	48.9
0.01655	0.420	1.25	40	2.4	48.7	51.3
0.01392	0.354	1.50	45	2.9	45.8	54.2
0.00984	0.2500	2.00	60	5.8	40.0	60.0
0.00696	0.1768	2.50	80	5.4	34.7	65.3
0.00492	0.1250	3.00	120	7.0	27.6	72.4
0.00293	0.0743	3.75	200	9.3	18.3	81.7
0.00020	0.0050	7.65		5.8	12.5	87.5
0.00008	0.0020	9.00		8.0	4.5	95.5
0.00004	0.0010	10.00		3.0	1.6	98.4
0.00002	0.0005	11.00		1.4	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.41	0.4182	10.621
10	-3.11	0.3390	8.611
16	-2.47	0.2189	5.560
25	-1.56	0.1160	2.946
40	0.17	0.0349	0.888
50	1.12	0.0182	0.461
60	2.00	0.0098	0.250
75	3.21	0.0042	0.108
84	5.31	0.0010	0.025
90	8.07	0.0001	0.004
95	8.92	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	1.12	1.12	1.12
Median, in.	0.0182	0.0182	0.0182
Median, mm	0.461	0.461	0.461
Mean, phi	-0.61	1.42	1.32
Mean, in.	0.0601	0.0147	0.0158
Mean, mm	1.527	0.374	0.401
Sorting	5.225	3.892	3.814
Skewness	1.222	0.077	0.172
Kurtosis	0.165	0.584	1.059
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)		

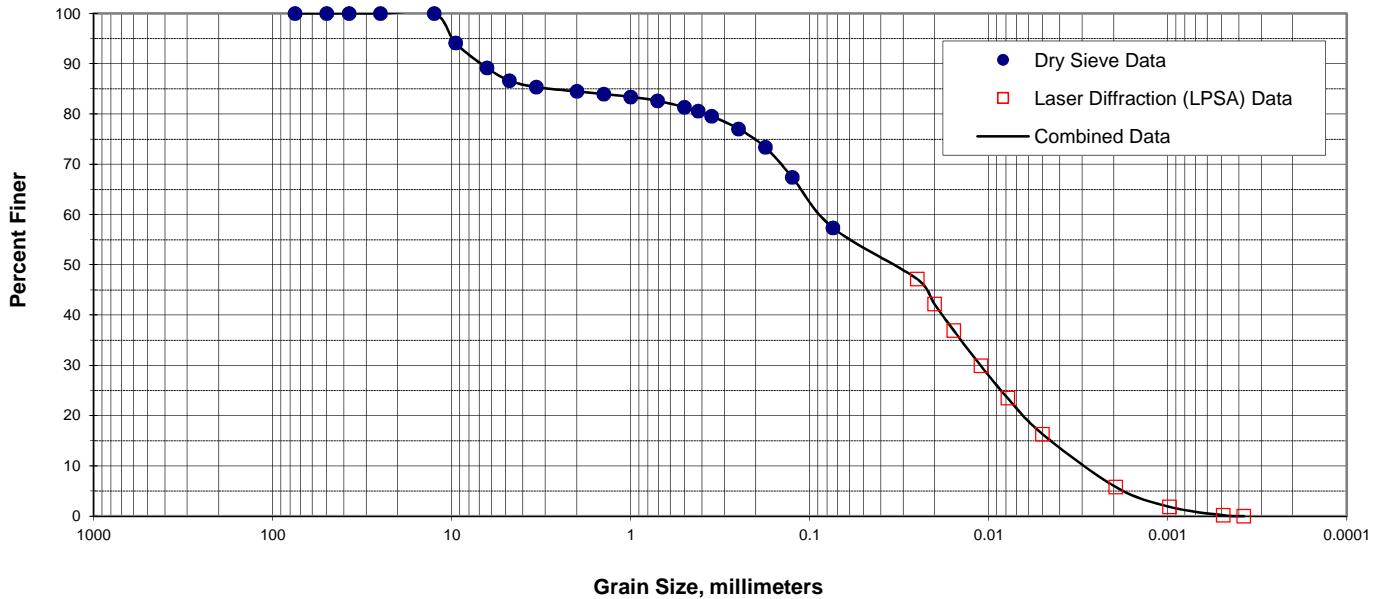
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	17.3
Coarse Sand	10	13.6
Medium Sand	40	20.3
Fine Sand	200	30.4
Silt	>0.005 mm	5.8
Clay	<0.005 mm	12.5
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI24-48.0-48.3
Depth, ft: 48.0-48.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	5.89	94.11	0.033	0.841	0.25	20	0.00	100.00
0.250	6.35	-2.67	1/4	10.83	89.17	0.028	0.707	0.50	25	0.06	99.94
0.187	4.76	-2.25	4	13.36	86.64	0.023	0.595	0.75	30	0.40	99.60
0.132	3.36	-1.75	6	14.67	85.33	0.020	0.500	1.00	35	1.16	98.84
0.079	2.00	-1.00	10	15.51	84.49	0.017	0.420	1.25	40	2.03	97.97
0.056	1.414	-0.50	14	16.07	83.93	0.0139	0.3536	1.50	45	2.70	97.30
0.039	1.000	0.00	18	16.60	83.40	0.0117	0.2973	1.75	50	3.72	96.28
0.028	0.707	0.50	25	17.40	82.60	0.0098	0.2500	2.00	60	4.98	95.02
0.020	0.500	1.00	35	18.63	81.37	0.0083	0.2102	2.25	70	6.72	93.28
0.017	0.420	1.25	40	19.43	80.57	0.0070	0.1768	2.50	80	8.91	91.09
0.014	0.354	1.50	45	20.41	79.59	0.0059	0.1487	2.75	100	11.60	88.40
0.010	0.250	2.00	60	22.96	77.04	0.0049	0.1250	3.00	120	14.79	85.21
0.007	0.1768	2.50	80	26.65	73.35	0.0041	0.1051	3.25	140	18.38	81.62
0.005	0.1250	3.00	120	32.63	67.37	0.0035	0.0884	3.50	170	22.20	77.80
0.003	0.0743	3.75	200	42.63	57.37	0.0029	0.0743	3.75	200	26.19	73.81
0.002	0.0526	4.25	270	44.16	55.84	0.0025	0.0625	4.00	230	30.34	69.66
0.001	0.0372	4.75	400	44.28	55.72	0.0021	0.0526	4.25	270	34.61	65.39
			PAN	100	0.00	0.0017	0.0442	4.50	325	38.98	61.02
						0.0015	0.0372	4.75	400	43.34	56.66
						0.0012	0.0313	5.00	450	47.62	52.38
						0.0010	0.0250	5.32	500	52.85	47.15
						0.0008	0.0201	5.64	635	57.83	42.17
						0.0006	0.0156	6.00		63.12	36.88
						0.0004	0.0110	6.50		70.12	29.88
						0.0003	0.0078	7.00		76.54	23.46
						0.0002	0.0050	7.65		83.69	16.31
						0.00008	0.00195	9.00		94.19	5.81
						0.00004	0.00098	10.00		98.15	1.85
						0.00002	0.00049	11.00		99.84	0.16
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI24-48.0-48.3
Depth, ft: 48.0-48.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	5.9	94.1	5.9
0.250	6.35	-2.67	1/4	4.9	89.2	10.8
0.1873	4.76	-2.25	4	2.5	86.6	13.4
0.1324	3.364	-1.75	6	1.3	85.3	14.7
0.0787	2.000	-1.00	10	0.8	84.5	15.5
0.0557	1.414	-0.50	14	0.6	83.9	16.1
0.0394	1.000	0.00	18	0.5	83.4	16.6
0.0278	0.707	0.50	25	0.8	82.6	17.4
0.0197	0.500	1.00	35	1.2	81.4	18.6
0.01655	0.420	1.25	40	0.8	80.6	19.4
0.01392	0.354	1.50	45	1.0	79.6	20.4
0.00984	0.2500	2.00	60	2.5	77.0	23.0
0.00696	0.1768	2.50	80	3.7	73.4	26.6
0.00492	0.1250	3.00	120	6.0	67.4	32.6
0.00293	0.0743	3.75	200	10.0	57.4	42.6
0.00099	0.0250	5.32	500	10.2	47.1	52.9
0.00079	0.0201	5.64	635	5.0	42.2	57.8
0.00062	0.0156	6.00		5.3	36.9	63.1
0.00043	0.0110	6.50		7.0	29.9	70.1
0.00031	0.0078	7.00		6.4	23.5	76.5
0.00020	0.0050	7.65		7.2	16.3	83.7
0.00008	0.0020	9.00		10.5	5.8	94.2
0.00004	0.0010	10.00		4.0	1.8	98.2
0.00002	0.0005	11.00		1.7	0.2	99.8
0.00001	0.0004	11.38		0.2	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.31	0.3899	9.903
10	-2.77	0.2676	6.798
16	-0.56	0.0581	1.476
25	2.28	0.0081	0.206
40	3.55	0.0034	0.085
50	4.88	0.0013	0.034
60	5.79	0.0007	0.018
75	6.88	0.0003	0.008
84	7.68	0.0002	0.005
90	8.46	0.0001	0.003
95	9.20	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.88	4.88	4.88
Median, in.	0.0013	0.0013	0.0013
Median, mm	0.034	0.034	0.034
Mean, phi	3.22	3.56	4.00
Mean, in.	0.0042	0.0033	0.0025
Mean, mm	0.107	0.085	0.062
Sorting	4.931	4.123	3.957
Skewness	1.234	-0.320	-0.315
Kurtosis	0.015	0.517	1.114
Grain Size Description (ASTM-USCS Scale)	Silt (based on Trask Median)		

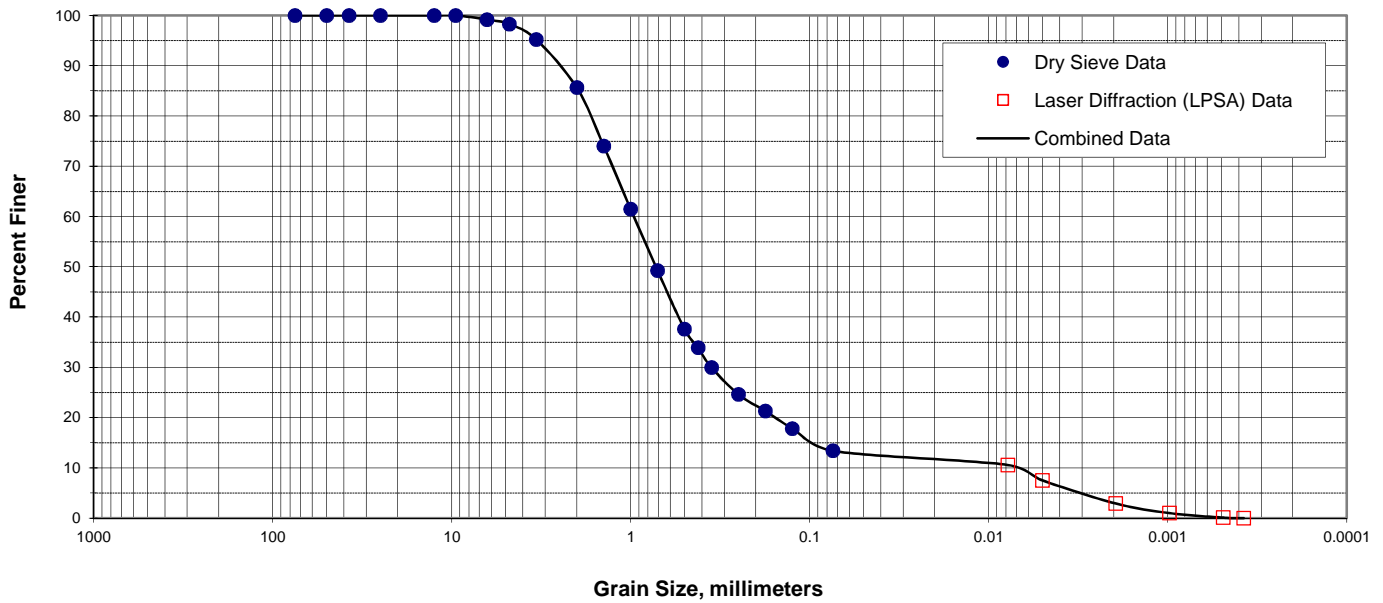
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	13.4
Coarse Sand	10	2.1
Medium Sand	40	3.9
Fine Sand	200	23.2
Silt	>0.005 mm	41.1
Clay	<0.005 mm	16.3
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI24-66.5-67.0
Depth, ft: 66.5-67.0

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	15.91	84.09
0.374	9.50	-3.25	3/8	0.00	100.00	0.033	0.841	0.25	20	23.35	76.65
0.250	6.35	-2.67	1/4	0.82	99.18	0.028	0.707	0.50	25	26.79	73.21
0.187	4.76	-2.25	4	1.75	98.25	0.023	0.595	0.75	30	30.32	69.68
0.132	3.36	-1.75	6	4.81	95.19	0.020	0.500	1.00	35	33.81	66.19
0.079	2.00	-1.00	10	14.35	85.65	0.017	0.420	1.25	40	36.93	63.07
0.056	1.414	-0.50	14	25.96	74.04	0.0139	0.3536	1.50	45	39.19	60.81
0.039	1.000	0.00	18	38.51	61.49	0.0117	0.2973	1.75	50	42.04	57.96
0.028	0.707	0.50	25	50.75	49.25	0.0098	0.2500	2.00	60	44.52	55.48
0.020	0.500	1.00	35	62.39	37.61	0.0083	0.2102	2.25	70	47.12	52.88
0.017	0.420	1.25	40	66.11	33.89	0.0070	0.1768	2.50	80	49.81	50.19
0.014	0.354	1.50	45	70.02	29.98	0.0059	0.1487	2.75	100	52.66	47.34
0.010	0.250	2.00	60	75.37	24.63	0.0049	0.1250	3.00	120	55.70	44.30
0.007	0.1768	2.50	80	78.72	21.28	0.0041	0.1051	3.25	140	58.82	41.18
0.005	0.1250	3.00	120	82.17	17.83	0.0035	0.0884	3.50	170	61.90	38.10
0.003	0.0743	3.75	200	86.61	13.39	0.0029	0.0743	3.75	200	64.86	35.14
0.002	0.0526	4.25	270	87.17	12.83	0.0025	0.0625	4.00	230	67.65	32.35
0.001	0.0372	4.75	400	87.26	12.74	0.0021	0.0526	4.25	270	70.25	29.75
			PAN	100	0.00	0.0017	0.0442	4.50	325	72.67	27.33
						0.0015	0.0372	4.75	400	74.91	25.09
						0.0012	0.0313	5.00	450	76.96	23.04
						0.0010	0.0250	5.32	500	79.33	20.67
						0.0008	0.0201	5.64	635	81.47	18.53
						0.0006	0.0156	6.00		83.70	16.30
						0.0004	0.0110	6.50		86.67	13.33
						0.0003	0.0078	7.00		89.43	10.57
						0.0002	0.0050	7.65		92.51	7.49
						0.00008	0.00195	9.00		97.09	2.91
						0.00004	0.00098	10.00		99.00	1.00
						0.00002	0.00049	11.00		99.91	0.09
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI24-66.5-67.0
Depth, ft: 66.5-67.0

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	0.0	100.0	0.0
0.250	6.35	-2.67	1/4	0.8	99.2	0.8
0.1873	4.76	-2.25	4	0.9	98.3	1.7
0.1324	3.364	-1.75	6	3.1	95.2	4.8
0.0787	2.000	-1.00	10	9.5	85.6	14.4
0.0557	1.414	-0.50	14	11.6	74.0	26.0
0.0394	1.000	0.00	18	12.5	61.5	38.5
0.0278	0.707	0.50	25	12.2	49.2	50.8
0.0197	0.500	1.00	35	11.6	37.6	62.4
0.01655	0.420	1.25	40	3.7	33.9	66.1
0.01392	0.354	1.50	45	3.9	30.0	70.0
0.00984	0.2500	2.00	60	5.4	24.6	75.4
0.00696	0.1768	2.50	80	3.3	21.3	78.7
0.00492	0.1250	3.00	120	3.5	17.8	82.2
0.00293	0.0743	3.75	200	4.4	13.4	86.6
0.00031	0.0078	7.00		2.8	10.6	89.4
0.00020	0.0050	7.65		3.1	7.5	92.5
0.00008	0.0020	9.00		4.6	2.9	97.1
0.00004	0.0010	10.00		1.9	1.0	99.0
0.00002	0.0005	11.00		0.9	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.74	0.1311	3.330
10	-1.34	0.0998	2.535
16	-0.93	0.0750	1.904
25	-0.54	0.0573	1.455
40	0.06	0.0377	0.959
50	0.47	0.0284	0.722
60	0.90	0.0211	0.537
75	1.97	0.0101	0.256
84	3.31	0.0040	0.101
90	7.12	0.0003	0.007
95	8.38	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	0.47	0.47	0.47
Median, in.	0.0284	0.0284	0.0284
Median, mm	0.722	0.722	0.722
Mean, phi	0.22	1.19	0.95
Mean, in.	0.0337	0.0173	0.0204
Mean, mm	0.856	0.438	0.518
Sorting	2.384	2.119	2.593
Skewness	0.845	0.340	0.452
Kurtosis	0.237	1.387	1.654
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)		

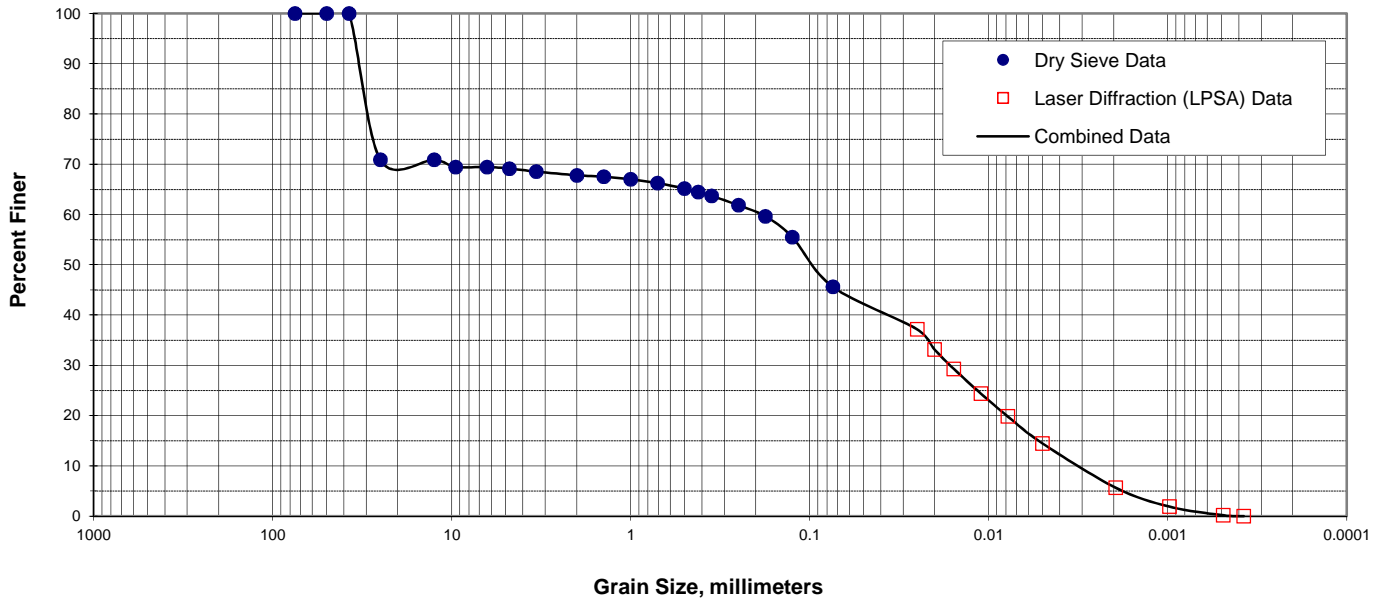
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	1.7
Coarse Sand	10	12.6
Medium Sand	40	51.8
Fine Sand	200	20.5
Silt	>0.005 mm	5.9
Clay	<0.005 mm	7.5
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No.: 2141400C, MO3D

PTS File No.: 47229
Sample ID: PT-RI24-68.7-69.0
Depth, ft: 68.7-69.0

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	29.12	70.88	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	29.12	70.88	0.047	1.189	-0.25	16	0.02	99.98
0.374	9.50	-3.25	3/8	30.55	69.45	0.033	0.841	0.25	20	0.21	99.79
0.250	6.35	-2.67	1/4	30.55	69.45	0.028	0.707	0.50	25	0.37	99.63
0.187	4.76	-2.25	4	30.88	69.12	0.023	0.595	0.75	30	0.85	99.15
0.132	3.36	-1.75	6	31.47	68.53	0.020	0.500	1.00	35	1.74	98.26
0.079	2.00	-1.00	10	32.21	67.79	0.017	0.420	1.25	40	2.69	97.31
0.056	1.414	-0.50	14	32.50	67.50	0.0139	0.3536	1.50	45	3.40	96.60
0.039	1.000	0.00	18	33.01	66.99	0.0117	0.2973	1.75	50	4.41	95.59
0.028	0.707	0.50	25	33.76	66.24	0.0098	0.2500	2.00	60	5.48	94.52
0.020	0.500	1.00	35	34.84	65.16	0.0083	0.2102	2.25	70	6.82	93.18
0.017	0.420	1.25	40	35.50	64.50	0.0070	0.1768	2.50	80	8.57	91.43
0.014	0.354	1.50	45	36.29	63.71	0.0059	0.1487	2.75	100	11.09	88.91
0.010	0.250	2.00	60	38.17	61.83	0.0049	0.1250	3.00	120	14.58	85.42
0.007	0.1768	2.50	80	40.37	59.63	0.0041	0.1051	3.25	140	18.99	81.01
0.005	0.1250	3.00	120	44.52	55.48	0.0035	0.0884	3.50	170	24.16	75.84
0.003	0.0743	3.75	200	54.36	45.64	0.0029	0.0743	3.75	200	29.93	70.07
0.002	0.0526	4.25	270	56.32	43.68	0.0025	0.0625	4.00	230	36.05	63.95
0.001	0.0372	4.75	400	56.51	43.49	0.0021	0.0526	4.25	270	42.19	57.81
			PAN	100	0.00	0.0017	0.0442	4.50	325	48.06	51.94
						0.0015	0.0372	4.75	400	53.37	46.63
						0.0012	0.0313	5.00	450	57.98	42.02
						0.0010	0.0250	5.32	500	62.86	37.14
						0.0008	0.0201	5.64	635	66.86	33.14
						0.0006	0.0156	6.00		70.73	29.27
						0.0004	0.0110	6.50		75.62	24.38
						0.0003	0.0078	7.00		80.18	19.82
						0.0002	0.0050	7.65		85.55	14.45
						0.00008	0.00195	9.00		94.34	5.66
						0.00004	0.00098	10.00		98.12	1.88
						0.00002	0.00049	11.00		99.84	0.16
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI24-68.7-69.0
Depth, ft: 68.7-69.0

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	29.1	70.9	29.1
0.492	12.5	-3.64	1/2	0.0	70.9	29.1
0.374	9.50	-3.25	3/8	1.4	69.5	30.5
0.250	6.35	-2.67	1/4	0.0	69.5	30.5
0.1873	4.76	-2.25	4	0.3	69.1	30.9
0.1324	3.364	-1.75	6	0.6	68.5	31.5
0.0787	2.000	-1.00	10	0.7	67.8	32.2
0.0557	1.414	-0.50	14	0.3	67.5	32.5
0.0394	1.000	0.00	18	0.5	67.0	33.0
0.0278	0.707	0.50	25	0.7	66.2	33.8
0.0197	0.500	1.00	35	1.1	65.2	34.8
0.01655	0.420	1.25	40	0.7	64.5	35.5
0.01392	0.354	1.50	45	0.8	63.7	36.3
0.00984	0.2500	2.00	60	1.9	61.8	38.2
0.00696	0.1768	2.50	80	2.2	59.6	40.4
0.00492	0.1250	3.00	120	4.2	55.5	44.5
0.00293	0.0743	3.75	200	9.8	45.6	54.4
0.00099	0.0250	5.32	500	8.5	37.1	62.9
0.00079	0.0201	5.64	635	4.0	33.1	66.9
0.00062	0.0156	6.00		3.9	29.3	70.7
0.00043	0.0110	6.50		4.9	24.4	75.6
0.00031	0.0078	7.00		4.6	19.8	80.2
0.00020	0.0050	7.65		5.4	14.4	85.6
0.00008	0.0020	9.00		8.8	5.7	94.3
0.00004	0.0010	10.00		3.8	1.9	98.1
0.00002	0.0005	11.00		1.7	0.2	99.8
0.00001	0.0004	11.38		0.2	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.96	1.2226	31.055
10	-4.68	1.0125	25.717
16	-4.36	0.8074	20.509
25	-3.87	0.5750	14.606
40	2.42	0.0074	0.187
50	3.42	0.0037	0.094
60	4.79	0.0014	0.036
75	6.44	0.0005	0.012
84	7.46	0.0002	0.006
90	8.33	0.0001	0.003
95	9.17	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	3.42	3.42	3.42
Median, in.	0.0037	0.0037	0.0037
Median, mm	0.094	0.094	0.094
Mean, phi	-2.87	1.55	2.17
Mean, in.	0.2877	0.0134	0.0087
Mean, mm	7.309	0.341	0.222
Sorting	35.567	5.908	5.095
Skewness	4.388	-0.316	-0.251
Kurtosis	0.284	0.196	0.562
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)		

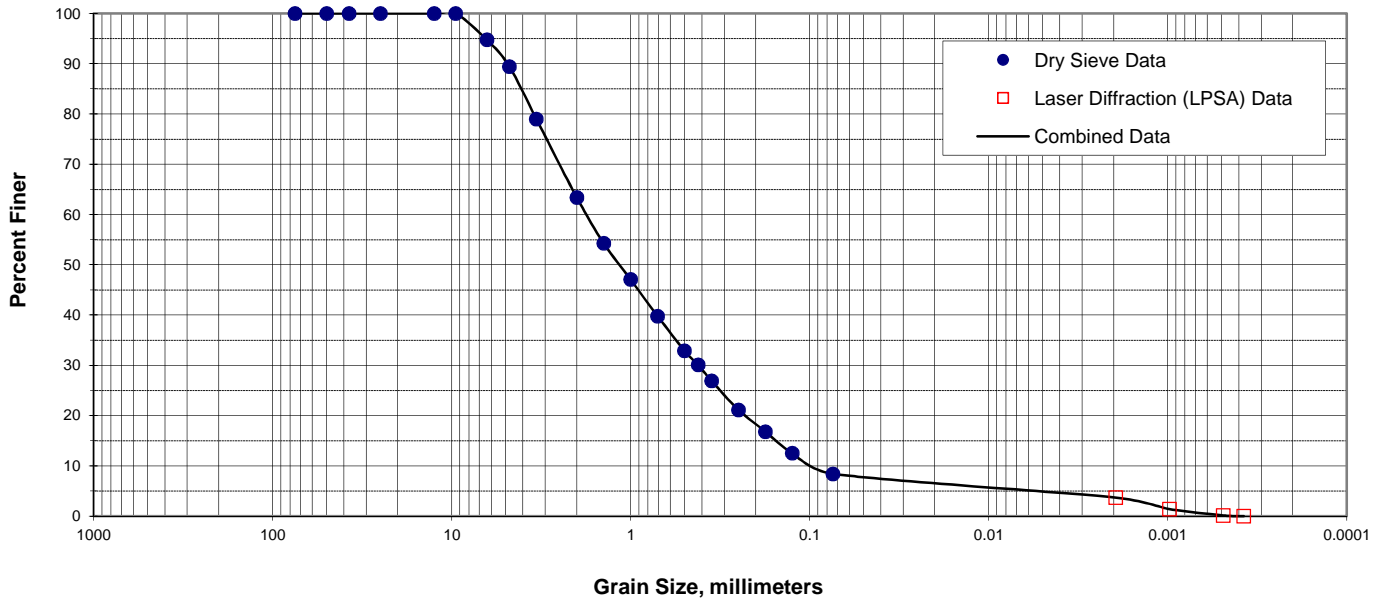
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	30.9
Coarse Sand	10	1.3
Medium Sand	40	3.3
Fine Sand	200	18.9
Silt	>0.005 mm	31.2
Clay	<0.005 mm	14.4
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI25-22.5-22.8
Depth, ft: 22.5-22.8

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	8.62	91.38
0.374	9.50	-3.25	3/8	0.00	100.00	0.033	0.841	0.25	20	13.12	86.88
0.250	6.35	-2.67	1/4	5.26	94.74	0.028	0.707	0.50	25	14.83	85.17
0.187	4.76	-2.25	4	10.58	89.42	0.023	0.595	0.75	30	16.64	83.36
0.132	3.36	-1.75	6	20.99	79.01	0.020	0.500	1.00	35	18.89	81.11
0.079	2.00	-1.00	10	36.59	63.41	0.017	0.420	1.25	40	21.45	78.55
0.056	1.414	-0.50	14	45.71	54.29	0.0139	0.3536	1.50	45	23.78	76.22
0.039	1.000	0.00	18	52.93	47.07	0.0117	0.2973	1.75	50	27.54	72.46
0.028	0.707	0.50	25	60.21	39.79	0.0098	0.2500	2.00	60	31.44	68.56
0.020	0.500	1.00	35	67.11	32.89	0.0083	0.2102	2.25	70	35.84	64.16
0.017	0.420	1.25	40	69.91	30.09	0.0070	0.1768	2.50	80	40.48	59.52
0.014	0.354	1.50	45	73.07	26.93	0.0059	0.1487	2.75	100	45.31	54.69
0.010	0.250	2.00	60	78.85	21.15	0.0049	0.1250	3.00	120	50.24	49.76
0.007	0.1768	2.50	80	83.18	16.82	0.0041	0.1051	3.25	140	55.01	44.99
0.005	0.1250	3.00	120	87.50	12.50	0.0035	0.0884	3.50	170	59.40	40.60
0.003	0.0743	3.75	200	91.58	8.42	0.0029	0.0743	3.75	200	63.33	36.67
0.002	0.0526	4.25	270	91.87	8.13	0.0025	0.0625	4.00	230	66.77	33.23
0.001	0.0372	4.75	400	91.91	8.09	0.0021	0.0526	4.25	270	69.78	30.22
			PAN	100	0.00	0.0017	0.0442	4.50	325	72.43	27.57
						0.0015	0.0372	4.75	400	74.78	25.22
						0.0012	0.0313	5.00	450	76.88	23.12
						0.0010	0.0250	5.32	500	79.25	20.75
						0.0008	0.0201	5.64	635	81.36	18.64
						0.0006	0.0156	6.00		83.54	16.46
						0.0004	0.0110	6.50		86.38	13.62
						0.0003	0.0078	7.00		88.95	11.05
						0.0002	0.0050	7.65		91.80	8.20
						0.00008	0.00195	9.00		96.32	3.68
						0.00004	0.00098	10.00		98.60	1.40
						0.00002	0.00049	11.00		99.87	0.13
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI25-22.5-22.8
Depth, ft: 22.5-22.8

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	0.0	100.0	0.0
0.250	6.35	-2.67	1/4	5.3	94.7	5.3
0.1873	4.76	-2.25	4	5.3	89.4	10.6
0.1324	3.364	-1.75	6	10.4	79.0	21.0
0.0787	2.000	-1.00	10	15.6	63.4	36.6
0.0557	1.414	-0.50	14	9.1	54.3	45.7
0.0394	1.000	0.00	18	7.2	47.1	52.9
0.0278	0.707	0.50	25	7.3	39.8	60.2
0.0197	0.500	1.00	35	6.9	32.9	67.1
0.01655	0.420	1.25	40	2.8	30.1	69.9
0.01392	0.354	1.50	45	3.2	26.9	73.1
0.00984	0.2500	2.00	60	5.8	21.1	78.9
0.00696	0.1768	2.50	80	4.3	16.8	83.2
0.00492	0.1250	3.00	120	4.3	12.5	87.5
0.00293	0.0743	3.75	200	4.1	8.4	91.6
0.00008	0.0020	9.00		4.7	3.7	96.3
0.00004	0.0010	10.00		2.3	1.4	98.6
0.00002	0.0005	11.00		1.3	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.70	0.2551	6.478
10	-2.30	0.1933	4.909
16	-1.99	0.1563	3.971
25	-1.56	0.1159	2.943
40	-0.81	0.0692	1.757
50	-0.20	0.0453	1.151
60	0.49	0.0281	0.714
75	1.67	0.0124	0.315
84	2.60	0.0065	0.165
90	3.46	0.0036	0.091
95	7.54	0.0002	0.005

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.20	-0.20	-0.20
Median, in.	0.0453	0.0453	0.0453
Median, mm	1.151	1.151	1.151
Mean, phi	-0.70	0.30	0.13
Mean, in.	0.0641	0.0319	0.0359
Mean, mm	1.629	0.811	0.911
Sorting	3.057	2.292	2.697
Skewness	0.836	0.221	0.367
Kurtosis	0.273	1.232	1.301
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)		

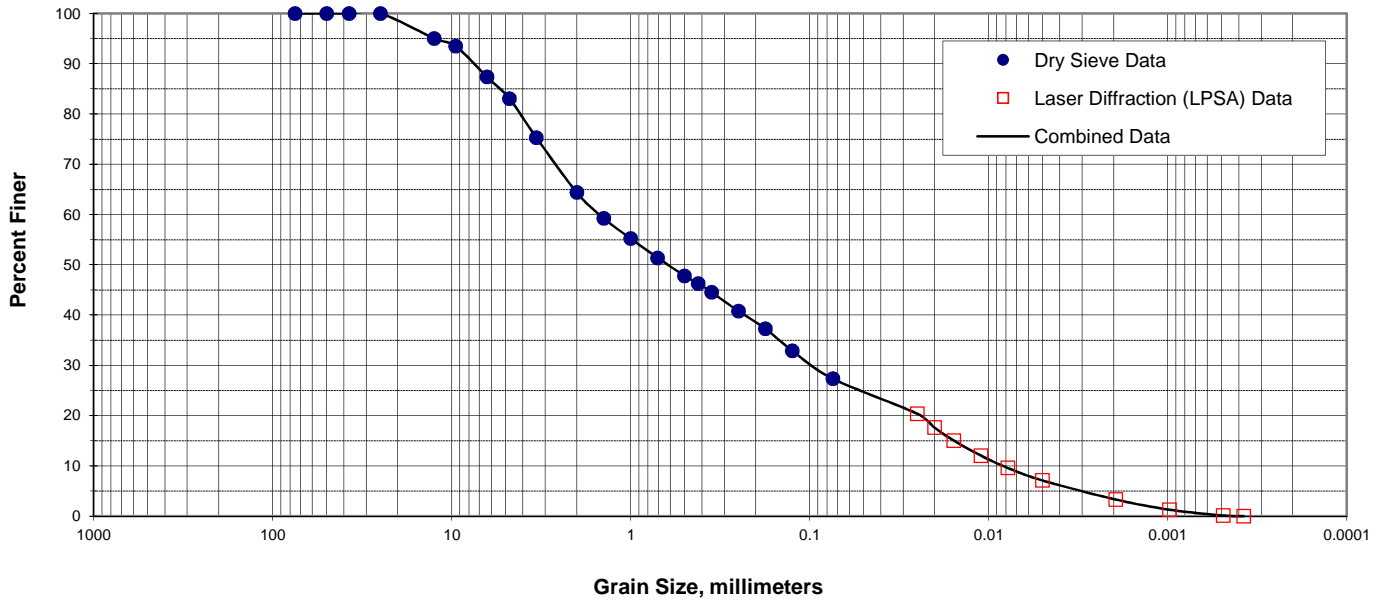
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	10.6
Coarse Sand	10	26.0
Medium Sand	40	33.3
Fine Sand	200	21.7
Silt	>0.005 mm	5.0
Clay	<0.005 mm	3.4
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C, MO3D

PTS File No: 47229
 Sample ID: PT-RI25-28.0-28.3
 Depth, ft: 28.0-28.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	4.97	95.03	0.047	1.189	-0.25	16	0.92	99.08
0.374	9.50	-3.25	3/8	6.52	93.48	0.033	0.841	0.25	20	3.88	96.12
0.250	6.35	-2.67	1/4	12.61	87.39	0.028	0.707	0.50	25	5.02	94.98
0.187	4.76	-2.25	4	16.96	83.04	0.023	0.595	0.75	30	6.40	93.60
0.132	3.36	-1.75	6	24.68	75.32	0.020	0.500	1.00	35	8.35	91.65
0.079	2.00	-1.00	10	35.61	64.39	0.017	0.420	1.25	40	10.67	89.33
0.056	1.414	-0.50	14	40.74	59.26	0.0139	0.3536	1.50	45	12.79	87.21
0.039	1.000	0.00	18	44.78	55.22	0.0117	0.2973	1.75	50	16.20	83.80
0.028	0.707	0.50	25	48.61	51.39	0.0098	0.2500	2.00	60	19.80	80.20
0.020	0.500	1.00	35	52.18	47.82	0.0083	0.2102	2.25	70	24.03	75.97
0.017	0.420	1.25	40	53.70	46.30	0.0070	0.1768	2.50	80	28.77	71.23
0.014	0.354	1.50	45	55.43	44.57	0.0059	0.1487	2.75	100	34.04	65.96
0.010	0.250	2.00	60	59.21	40.79	0.0049	0.1250	3.00	120	39.69	60.31
0.007	0.1768	2.50	80	62.73	37.27	0.0041	0.1051	3.25	140	45.43	54.57
0.005	0.1250	3.00	120	67.11	32.89	0.0035	0.0884	3.50	170	50.99	49.01
0.003	0.0743	3.75	200	72.66	27.34	0.0029	0.0743	3.75	200	56.24	43.76
0.002	0.0526	4.25	270	73.71	26.29	0.0025	0.0625	4.00	230	61.10	38.90
0.001	0.0372	4.75	400	73.89	26.11	0.0021	0.0526	4.25	270	65.54	34.46
			PAN	100	0.00	0.0017	0.0442	4.50	325	69.56	30.44
						0.0015	0.0372	4.75	400	73.14	26.86
						0.0012	0.0313	5.00	450	76.27	23.73
						0.0010	0.0250	5.32	500	79.64	20.36
						0.0008	0.0201	5.64	635	82.40	17.60
						0.0006	0.0156	6.00		84.98	15.02
						0.0004	0.0110	6.50		87.97	12.03
						0.0003	0.0078	7.00		90.41	9.59
						0.0002	0.0050	7.65		92.91	7.09
						0.00008	0.00195	9.00		96.69	3.31
						0.00004	0.00098	10.00		98.72	1.28
						0.00002	0.00049	11.00		99.88	0.12
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI25-28.0-28.3
Depth, ft: 28.0-28.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	5.0	95.0	5.0
0.374	9.50	-3.25	3/8	1.5	93.5	6.5
0.250	6.35	-2.67	1/4	6.1	87.4	12.6
0.1873	4.76	-2.25	4	4.4	83.0	17.0
0.1324	3.364	-1.75	6	7.7	75.3	24.7
0.0787	2.000	-1.00	10	10.9	64.4	35.6
0.0557	1.414	-0.50	14	5.1	59.3	40.7
0.0394	1.000	0.00	18	4.0	55.2	44.8
0.0278	0.707	0.50	25	3.8	51.4	48.6
0.0197	0.500	1.00	35	3.6	47.8	52.2
0.01655	0.420	1.25	40	1.5	46.3	53.7
0.01392	0.354	1.50	45	1.7	44.6	55.4
0.00984	0.2500	2.00	60	3.8	40.8	59.2
0.00696	0.1768	2.50	80	3.5	37.3	62.7
0.00492	0.1250	3.00	120	4.4	32.9	67.1
0.00293	0.0743	3.75	200	5.5	27.3	72.7
0.00099	0.0250	5.32	500	7.0	20.4	79.6
0.00079	0.0201	5.64	635	2.8	17.6	82.4
0.00062	0.0156	6.00		2.6	15.0	85.0
0.00043	0.0110	6.50		3.0	12.0	88.0
0.00031	0.0078	7.00		2.4	9.6	90.4
0.00020	0.0050	7.65		2.5	7.1	92.9
0.00008	0.0020	9.00		3.8	3.3	96.7
0.00004	0.0010	10.00		2.0	1.3	98.7
0.00002	0.0005	11.00		1.2	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.64	0.4894	12.432
10	-2.92	0.2971	7.547
16	-2.34	0.1996	5.071
25	-1.73	0.1304	3.313
40	-0.57	0.0586	1.487
50	0.69	0.0243	0.618
60	2.11	0.0091	0.231
75	4.28	0.0020	0.052
84	5.86	0.0007	0.017
90	6.92	0.0003	0.008
95	8.39	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	0.69	0.69	0.69
Median, in.	0.0243	0.0243	0.0243
Median, mm	0.618	0.618	0.618
Mean, phi	-0.75	1.76	1.41
Mean, in.	0.0662	0.0116	0.0149
Mean, mm	1.682	0.295	0.378
Sorting	8.014	4.103	3.874
Skewness	0.669	0.260	0.270
Kurtosis	0.216	0.466	0.821
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)		

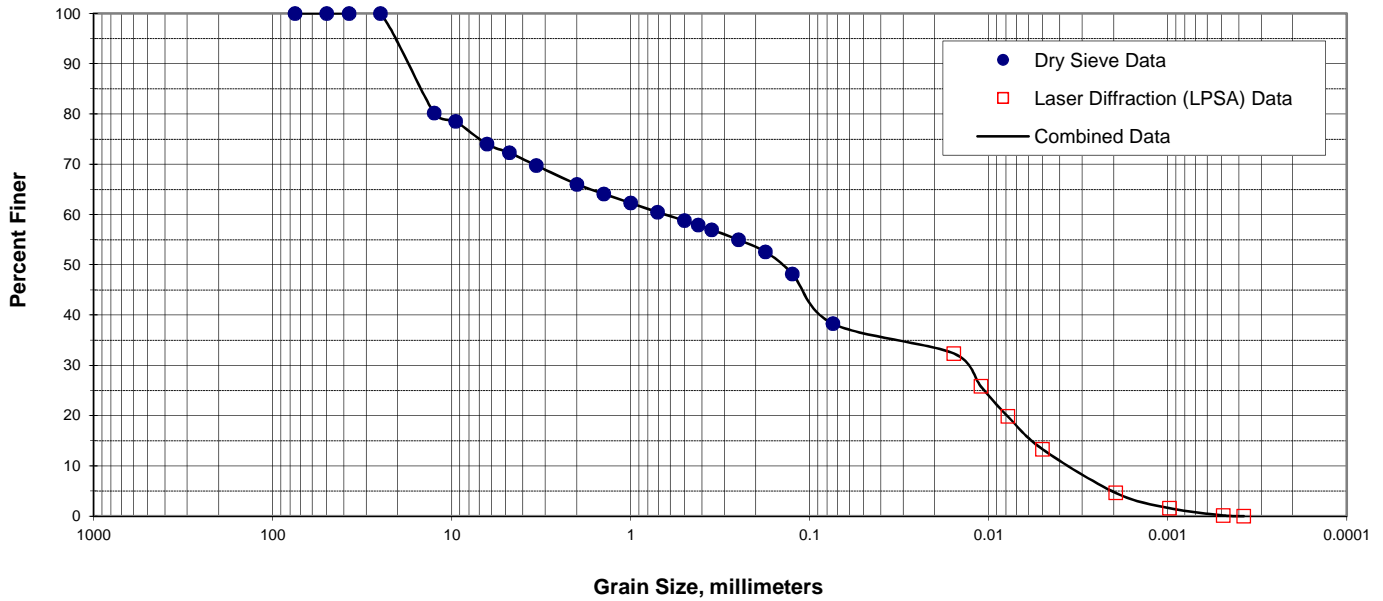
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	17.0
Coarse Sand	10	18.7
Medium Sand	40	18.1
Fine Sand	200	19.0
Silt	>0.005 mm	20.3
Clay	<0.005 mm	7.1
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI25-36.2-36.5
Depth, ft: 36.2-36.5

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	19.82	80.18	0.047	1.189	-0.25	16	0.08	99.92
0.374	9.50	-3.25	3/8	21.48	78.52	0.033	0.841	0.25	20	0.64	99.36
0.250	6.35	-2.67	1/4	26.00	74.00	0.028	0.707	0.50	25	0.88	99.12
0.187	4.76	-2.25	4	27.72	72.28	0.023	0.595	0.75	30	1.36	98.64
0.132	3.36	-1.75	6	30.26	69.74	0.020	0.500	1.00	35	2.25	97.75
0.079	2.00	-1.00	10	33.98	66.02	0.017	0.420	1.25	40	3.23	96.77
0.056	1.414	-0.50	14	35.90	64.10	0.0139	0.3536	1.50	45	3.93	96.07
0.039	1.000	0.00	18	37.72	62.28	0.0117	0.2973	1.75	50	4.90	95.10
0.028	0.707	0.50	25	39.53	60.47	0.0098	0.2500	2.00	60	6.02	93.98
0.020	0.500	1.00	35	41.22	58.78	0.0083	0.2102	2.25	70	7.58	92.42
0.017	0.420	1.25	40	42.08	57.92	0.0070	0.1768	2.50	80	9.66	90.34
0.014	0.354	1.50	45	43.03	56.97	0.0059	0.1487	2.75	100	12.54	87.46
0.010	0.250	2.00	60	45.04	54.96	0.0049	0.1250	3.00	120	16.40	83.60
0.007	0.1768	2.50	80	47.44	52.56	0.0041	0.1051	3.25	140	21.13	78.87
0.005	0.1250	3.00	120	51.81	48.19	0.0035	0.0884	3.50	170	26.38	73.62
0.003	0.0743	3.75	200	61.70	38.30	0.0029	0.0743	3.75	200	31.77	68.23
0.002	0.0526	4.25	270	63.71	36.29	0.0025	0.0625	4.00	230	36.96	63.04
0.001	0.0372	4.75	400	64.10	35.90	0.0021	0.0526	4.25	270	41.73	58.27
			PAN	100	0.00	0.0017	0.0442	4.50	325	46.07	53.93
						0.0015	0.0372	4.75	400	50.08	49.92
						0.0012	0.0313	5.00	450	53.86	46.14
						0.0010	0.0250	5.32	500	58.45	41.55
						0.0008	0.0201	5.64	635	62.86	37.14
						0.0006	0.0156	6.00		67.66	32.34
						0.0004	0.0110	6.50		74.18	25.82
						0.0003	0.0078	7.00		80.18	19.82
						0.0002	0.0050	7.65		86.70	13.30
						0.00008	0.00195	9.00		95.37	4.63
						0.00004	0.00098	10.00		98.43	1.57
						0.00002	0.00049	11.00		99.86	0.14
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI25-36.2-36.5
Depth, ft: 36.2-36.5

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	19.8	80.2	19.8
0.374	9.50	-3.25	3/8	1.7	78.5	21.5
0.250	6.35	-2.67	1/4	4.5	74.0	26.0
0.1873	4.76	-2.25	4	1.7	72.3	27.7
0.1324	3.364	-1.75	6	2.5	69.7	30.3
0.0787	2.000	-1.00	10	3.7	66.0	34.0
0.0557	1.414	-0.50	14	1.9	64.1	35.9
0.0394	1.000	0.00	18	1.8	62.3	37.7
0.0278	0.707	0.50	25	1.8	60.5	39.5
0.0197	0.500	1.00	35	1.7	58.8	41.2
0.01655	0.420	1.25	40	0.9	57.9	42.1
0.01392	0.354	1.50	45	0.9	57.0	43.0
0.00984	0.2500	2.00	60	2.0	55.0	45.0
0.00696	0.1768	2.50	80	2.4	52.6	47.4
0.00492	0.1250	3.00	120	4.4	48.2	51.8
0.00293	0.0743	3.75	200	9.9	38.3	61.7
0.00062	0.0156	6.00		6.0	32.3	67.7
0.00043	0.0110	6.50		6.5	25.8	74.2
0.00031	0.0078	7.00		6.0	19.8	80.2
0.00020	0.0050	7.65		6.5	13.3	86.7
0.00008	0.0020	9.00		8.7	4.6	95.4
0.00004	0.0010	10.00		3.1	1.6	98.4
0.00002	0.0005	11.00		1.4	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.39	0.8264	20.992
10	-4.14	0.6939	17.624
16	-3.84	0.5625	14.288
25	-2.80	0.2734	6.943
40	0.64	0.0253	0.642
50	2.79	0.0057	0.144
60	3.62	0.0032	0.081
75	6.57	0.0004	0.011
84	7.38	0.0002	0.006
90	8.16	0.0001	0.003
95	8.94	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	2.79	2.79	2.79
Median, in.	0.0057	0.0057	0.0057
Median, mm	0.144	0.144	0.144
Mean, phi	-1.80	1.77	2.11
Mean, in.	0.1369	0.0115	0.0091
Mean, mm	3.477	0.293	0.231
Sorting	25.669	5.607	4.824
Skewness	1.874	-0.182	-0.130
Kurtosis	0.197	0.189	0.584
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)		

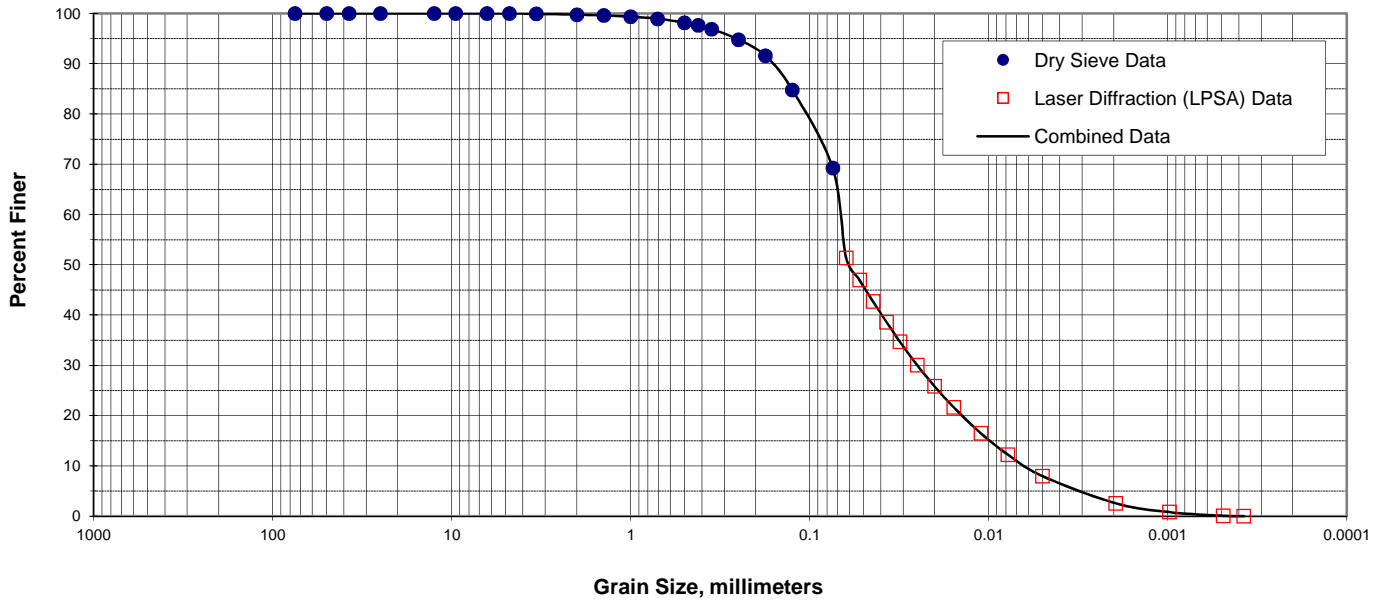
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	27.7
Coarse Sand	10	6.3
Medium Sand	40	8.1
Fine Sand	200	19.6
Silt	>0.005 mm	25.0
Clay	<0.005 mm	13.3
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI25-106.0-106.3
Depth, ft: 106.0-106.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00	0.047	1.189	-0.25	16	0.25	99.75
0.374	9.50	-3.25	3/8	0.00	100.00	0.033	0.841	0.25	20	2.26	97.74
0.250	6.35	-2.67	1/4	0.00	100.00	0.028	0.707	0.50	25	3.81	96.19
0.187	4.76	-2.25	4	0.00	100.00	0.023	0.595	0.75	30	5.68	94.32
0.132	3.36	-1.75	6	0.10	99.90	0.020	0.500	1.00	35	7.76	92.24
0.079	2.00	-1.00	10	0.25	99.75	0.017	0.420	1.25	40	9.79	90.21
0.056	1.414	-0.50	14	0.40	99.60	0.0139	0.3536	1.50	45	11.40	88.60
0.039	1.000	0.00	18	0.64	99.36	0.0117	0.2973	1.75	50	13.71	86.29
0.028	0.707	0.50	25	1.07	98.93	0.0098	0.2500	2.00	60	15.97	84.03
0.020	0.500	1.00	35	1.84	98.16	0.0083	0.2102	2.25	70	18.65	81.35
0.017	0.420	1.25	40	2.38	97.62	0.0070	0.1768	2.50	80	21.86	78.14
0.014	0.354	1.50	45	3.10	96.90	0.0059	0.1487	2.75	100	25.68	74.32
0.010	0.250	2.00	60	5.21	94.79	0.0049	0.1250	3.00	120	29.99	70.01
0.007	0.1768	2.50	80	8.41	91.59	0.0041	0.1051	3.25	140	34.60	65.40
0.005	0.1250	3.00	120	15.20	84.80	0.0035	0.0884	3.50	170	39.35	60.65
0.003	0.0743	3.75	200	30.73	69.27	0.0029	0.0743	3.75	200	44.08	55.92
0.002	0.0526	4.25	270	37.03	62.97	0.0025	0.0625	4.00	230	48.67	51.33
0.001	0.0372	4.75	400	38.22	61.78	0.0021	0.0526	4.25	270	53.06	46.94
			PAN	100	0.00	0.0017	0.0442	4.50	325	57.31	42.69
						0.0015	0.0372	4.75	400	61.42	38.58
						0.0012	0.0313	5.00	450	65.35	34.65
						0.0010	0.0250	5.32	500	69.98	30.02
						0.0008	0.0201	5.64	635	74.18	25.82
						0.0006	0.0156	6.00		78.40	21.60
						0.0004	0.0110	6.50		83.52	16.48
						0.0003	0.0078	7.00		87.77	12.23
						0.0002	0.0050	7.65		92.05	7.95
						0.00008	0.00195	9.00		97.44	2.56
						0.00004	0.00098	10.00		99.21	0.79
						0.00002	0.00049	11.00		99.93	0.07
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI25-106.0-106.3
Depth, ft: 106.0-106.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	0.0	100.0	0.0
0.250	6.35	-2.67	1/4	0.0	100.0	0.0
0.1873	4.76	-2.25	4	0.0	100.0	0.0
0.1324	3.364	-1.75	6	0.1	99.9	0.1
0.0787	2.000	-1.00	10	0.1	99.8	0.2
0.0557	1.414	-0.50	14	0.1	99.6	0.4
0.0394	1.000	0.00	18	0.2	99.4	0.6
0.0278	0.707	0.50	25	0.4	98.9	1.1
0.0197	0.500	1.00	35	0.8	98.2	1.8
0.01655	0.420	1.25	40	0.5	97.6	2.4
0.01392	0.354	1.50	45	0.7	96.9	3.1
0.00984	0.2500	2.00	60	2.1	94.8	5.2
0.00696	0.1768	2.50	80	3.2	91.6	8.4
0.00492	0.1250	3.00	120	6.8	84.8	15.2
0.00293	0.0743	3.75	200	15.5	69.3	30.7
0.00246	0.0625	4.00	230	17.9	51.3	48.7
0.00207	0.0526	4.25	270	4.4	46.9	53.1
0.00174	0.0442	4.50	325	4.3	42.7	57.3
0.00146	0.0372	4.75	400	4.1	38.6	61.4
0.00123	0.0313	5.00	450	3.9	34.7	65.3
0.00099	0.0250	5.32	500	4.6	30.0	70.0
0.00079	0.0201	5.64	635	4.2	25.8	74.2
0.00062	0.0156	6.00		4.2	21.6	78.4
0.00043	0.0110	6.50		5.1	16.5	83.5
0.00031	0.0078	7.00		4.3	12.2	87.8
0.00020	0.0050	7.65		4.3	7.9	92.1
0.00008	0.0020	9.00		5.4	2.6	97.4
0.00004	0.0010	10.00		1.8	0.8	99.2
0.00002	0.0005	11.00		0.7	0.1	99.9
0.00001	0.0004	11.38		0.1	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.95	0.0102	0.259
10	2.62	0.0064	0.163
16	3.04	0.0048	0.122
25	3.47	0.0035	0.090
40	3.88	0.0027	0.068
50	4.08	0.0023	0.059
60	4.66	0.0016	0.039
75	5.71	0.0008	0.019
84	6.56	0.0004	0.011
90	7.34	0.0002	0.006
95	8.39	0.0001	0.003

Measure	Trask	Inman	Folk-Ward
Median, phi	4.08	4.08	4.08
Median, in.	0.0023	0.0023	0.0023
Median, mm	0.059	0.059	0.059
Mean, phi	4.20	4.80	4.56
Mean, in.	0.0021	0.0014	0.0017
Mean, mm	0.055	0.036	0.042
Sorting	2.171	1.759	1.855
Skewness	0.699	0.410	0.375
Kurtosis	0.226	0.829	1.179
Grain Size Description (ASTM-USCS Scale)	Silt (based on Trask Median)		

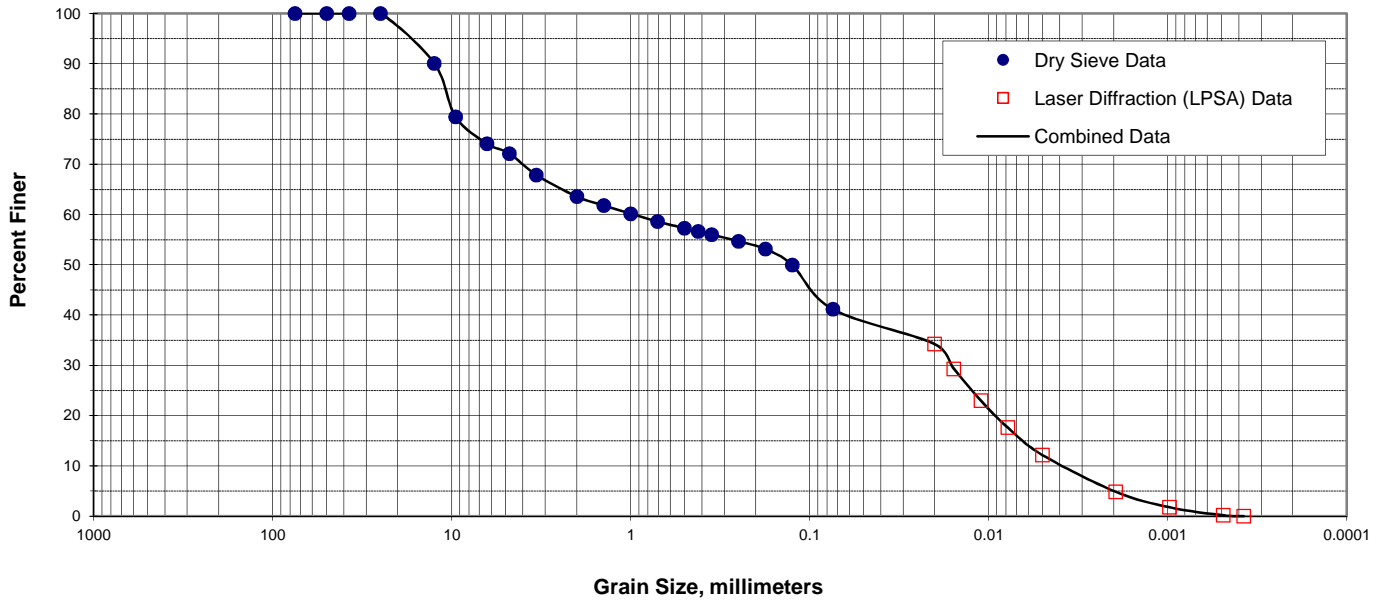
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.2
Medium Sand	40	2.1
Fine Sand	200	28.3
Silt	>0.005 mm	61.3
Clay	<0.005 mm	7.9
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-R118-28.5-28.8
Depth, ft: 28.5-28.8

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	9.94	90.06	0.047	1.189	-0.25	16	0.08	99.92
0.374	9.50	-3.25	3/8	20.57	79.43	0.033	0.841	0.25	20	0.73	99.27
0.250	6.35	-2.67	1/4	25.89	74.11	0.028	0.707	0.50	25	1.10	98.90
0.187	4.76	-2.25	4	27.87	72.13	0.023	0.595	0.75	30	1.71	98.29
0.132	3.36	-1.75	6	32.15	67.85	0.020	0.500	1.00	35	2.62	97.38
0.079	2.00	-1.00	10	36.42	63.58	0.017	0.420	1.25	40	3.49	96.51
0.056	1.414	-0.50	14	38.21	61.79	0.0139	0.3536	1.50	45	4.09	95.91
0.039	1.000	0.00	18	39.83	60.17	0.0117	0.2973	1.75	50	4.99	95.01
0.028	0.707	0.50	25	41.41	58.59	0.0098	0.2500	2.00	60	6.11	93.89
0.020	0.500	1.00	35	42.74	57.26	0.0083	0.2102	2.25	70	7.64	92.36
0.017	0.420	1.25	40	43.39	56.61	0.0070	0.1768	2.50	80	9.60	90.40
0.014	0.354	1.50	45	43.99	56.01	0.0059	0.1487	2.75	100	12.30	87.70
0.010	0.250	2.00	60	45.33	54.67	0.0049	0.1250	3.00	120	16.01	83.99
0.007	0.1768	2.50	80	46.89	53.11	0.0041	0.1051	3.25	140	20.74	79.26
0.005	0.1250	3.00	120	50.05	49.95	0.0035	0.0884	3.50	170	26.20	73.80
0.003	0.0743	3.75	200	58.86	41.14	0.0029	0.0743	3.75	200	31.96	68.04
0.002	0.0526	4.25	270	60.39	39.61	0.0025	0.0625	4.00	230	37.58	62.42
0.001	0.0372	4.75	400	60.72	39.28	0.0021	0.0526	4.25	270	42.77	57.23
			PAN	100	0.00	0.0017	0.0442	4.50	325	47.51	52.49
						0.0015	0.0372	4.75	400	51.91	48.09
						0.0012	0.0313	5.00	450	56.07	43.93
						0.0010	0.0250	5.32	500	61.07	38.93
						0.0008	0.0201	5.64	635	65.76	34.24
						0.0006	0.0156	6.00		70.70	29.30
						0.0004	0.0110	6.50		77.02	22.98
						0.0003	0.0078	7.00		82.40	17.60
						0.0002	0.0050	7.65		87.86	12.14
						0.00008	0.00195	9.00		95.15	4.85
						0.00004	0.00098	10.00		98.24	1.76
						0.00002	0.00049	11.00		99.84	0.16
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI18-28.5-28.8
Depth, ft: 28.5-28.8

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	9.9	90.1	9.9
0.374	9.50	-3.25	3/8	10.6	79.4	20.6
0.250	6.35	-2.67	1/4	5.3	74.1	25.9
0.1873	4.76	-2.25	4	2.0	72.1	27.9
0.1324	3.364	-1.75	6	4.3	67.9	32.1
0.0787	2.000	-1.00	10	4.3	63.6	36.4
0.0557	1.414	-0.50	14	1.8	61.8	38.2
0.0394	1.000	0.00	18	1.6	60.2	39.8
0.0278	0.707	0.50	25	1.6	58.6	41.4
0.0197	0.500	1.00	35	1.3	57.3	42.7
0.01655	0.420	1.25	40	0.7	56.6	43.4
0.01392	0.354	1.50	45	0.6	56.0	44.0
0.00984	0.2500	2.00	60	1.3	54.7	45.3
0.00696	0.1768	2.50	80	1.6	53.1	46.9
0.00492	0.1250	3.00	120	3.2	49.9	50.1
0.00293	0.0743	3.75	200	8.8	41.1	58.9
0.00079	0.0201	5.64	635	6.9	34.2	65.8
0.00062	0.0156	6.00		4.9	29.3	70.7
0.00043	0.0110	6.50		6.3	23.0	77.0
0.00031	0.0078	7.00		5.4	17.6	82.4
0.00020	0.0050	7.65		5.5	12.1	87.9
0.00008	0.0020	9.00		7.3	4.8	95.2
0.00004	0.0010	10.00		3.1	1.8	98.2
0.00002	0.0005	11.00		1.6	0.2	99.8
0.00001	0.0004	11.38		0.2	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.14	0.6945	17.642
10	-3.64	0.4914	12.481
16	-3.42	0.4208	10.689
25	-2.76	0.2675	6.794
40	0.05	0.0379	0.963
50	2.99	0.0050	0.126
60	4.06	0.0024	0.060
75	6.34	0.0005	0.012
84	7.19	0.0003	0.007
90	8.04	0.0001	0.004
95	8.97	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	2.99	2.99	2.99
Median, in.	0.0050	0.0050	0.0050
Median, mm	0.126	0.126	0.126
Mean, phi	-1.77	1.89	2.25
Mean, in.	0.1340	0.0107	0.0083
Mean, mm	3.403	0.271	0.210
Sorting	23.461	5.304	4.639
Skewness	2.303	-0.209	-0.148
Kurtosis	0.272	0.236	0.590
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)		

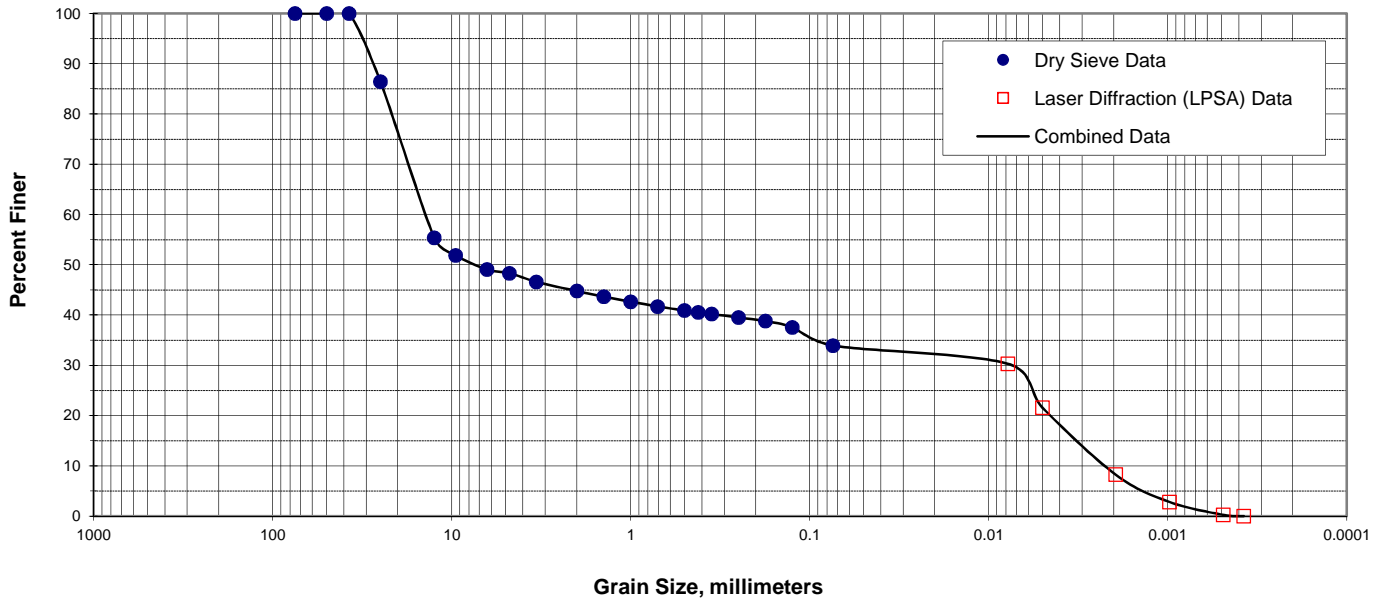
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	27.9
Coarse Sand	10	8.5
Medium Sand	40	7.0
Fine Sand	200	15.5
Silt	>0.005 mm	29.0
Clay	<0.005 mm	12.1
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-R118-40.5-41.0
Depth, ft: 40.5-40.7

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	13.57	86.43	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	44.62	55.38	0.047	1.189	-0.25	16	0.00	100.00
0.374	9.50	-3.25	3/8	48.14	51.86	0.033	0.841	0.25	20	0.00	100.00
0.250	6.35	-2.67	1/4	50.94	49.06	0.028	0.707	0.50	25	0.08	99.92
0.187	4.76	-2.25	4	51.67	48.33	0.023	0.595	0.75	30	0.52	99.48
0.132	3.36	-1.75	6	53.39	46.61	0.020	0.500	1.00	35	1.38	98.62
0.079	2.00	-1.00	10	55.23	44.77	0.017	0.420	1.25	40	2.20	97.80
0.056	1.414	-0.50	14	56.32	43.68	0.0139	0.3536	1.50	45	2.71	97.29
0.039	1.000	0.00	18	57.34	42.66	0.0117	0.2973	1.75	50	3.38	96.62
0.028	0.707	0.50	25	58.30	41.70	0.0098	0.2500	2.00	60	4.21	95.79
0.020	0.500	1.00	35	59.09	40.91	0.0083	0.2102	2.25	70	5.33	94.67
0.017	0.420	1.25	40	59.45	40.55	0.0070	0.1768	2.50	80	6.67	93.33
0.014	0.354	1.50	45	59.80	40.20	0.0059	0.1487	2.75	100	8.39	91.61
0.010	0.250	2.00	60	60.49	39.51	0.0049	0.1250	3.00	120	10.73	89.27
0.007	0.1768	2.50	80	61.20	38.80	0.0041	0.1051	3.25	140	13.76	86.24
0.005	0.1250	3.00	120	62.44	37.56	0.0035	0.0884	3.50	170	17.36	82.64
0.003	0.0743	3.75	200	66.05	33.95	0.0029	0.0743	3.75	200	21.34	78.66
0.002	0.0526	4.25	270	66.98	33.02	0.0025	0.0625	4.00	230	25.48	74.52
0.001	0.0372	4.75	400	67.20	32.80	0.0021	0.0526	4.25	270	29.52	70.48
			PAN	100	0.00	0.0017	0.0442	4.50	325	33.42	66.58
						0.0015	0.0372	4.75	400	37.17	62.83
						0.0012	0.0313	5.00	450	40.82	59.18
						0.0010	0.0250	5.32	500	45.35	54.65
						0.0008	0.0201	5.64	635	49.83	50.17
						0.0006	0.0156	6.00		54.91	45.09
						0.0004	0.0110	6.50		62.29	37.71
						0.0003	0.0078	7.00		69.69	30.31
						0.0002	0.0050	7.65		78.43	21.57
						0.00008	0.00195	9.00		91.74	8.26
						0.00004	0.00098	10.00		97.18	2.82
						0.00002	0.00049	11.00		99.75	0.25
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI18-40.5-41.0
Depth, ft: 40.5-40.7

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	13.6	86.4	13.6
0.492	12.5	-3.64	1/2	31.1	55.4	44.6
0.374	9.50	-3.25	3/8	3.5	51.9	48.1
0.250	6.35	-2.67	1/4	2.8	49.1	50.9
0.1873	4.76	-2.25	4	0.7	48.3	51.7
0.1324	3.364	-1.75	6	1.7	46.6	53.4
0.0787	2.000	-1.00	10	1.8	44.8	55.2
0.0557	1.414	-0.50	14	1.1	43.7	56.3
0.0394	1.000	0.00	18	1.0	42.7	57.3
0.0278	0.707	0.50	25	1.0	41.7	58.3
0.0197	0.500	1.00	35	0.8	40.9	59.1
0.01655	0.420	1.25	40	0.4	40.6	59.4
0.01392	0.354	1.50	45	0.4	40.2	59.8
0.00984	0.2500	2.00	60	0.7	39.5	60.5
0.00696	0.1768	2.50	80	0.7	38.8	61.2
0.00492	0.1250	3.00	120	1.2	37.6	62.4
0.00293	0.0743	3.75	200	3.6	33.9	66.1
0.00031	0.0078	7.00		3.6	30.3	69.7
0.00020	0.0050	7.65		8.7	21.6	78.4
0.00008	0.0020	9.00		13.3	8.3	91.7
0.00004	0.0010	10.00		5.4	2.8	97.2
0.00002	0.0005	11.00		2.6	0.3	99.7
0.00001	0.0004	11.38		0.3	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-5.01	1.2715	32.296
10	-4.80	1.0951	27.815
16	-4.57	0.9323	23.681
25	-4.28	0.7627	19.372
40	-3.79	0.5457	13.861
50	-2.86	0.2861	7.267
60	1.64	0.0126	0.320
75	7.39	0.0002	0.006
84	8.21	0.0001	0.003
90	8.82	0.0001	0.002
95	9.60	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	-2.86	-2.86	-2.86
Median, in.	0.2861	0.2861	0.2861
Median, mm	7.267	7.267	7.267
Mean, phi	-3.28	1.82	0.26
Mean, in.	0.3815	0.0111	0.0328
Mean, mm	9.689	0.283	0.834
Sorting	57.036	6.389	5.408
Skewness	0.047	0.733	0.719
Kurtosis	0.348	0.144	0.513
Grain Size Description (ASTM-USCS Scale)	Gravel (based on Trask Median)		

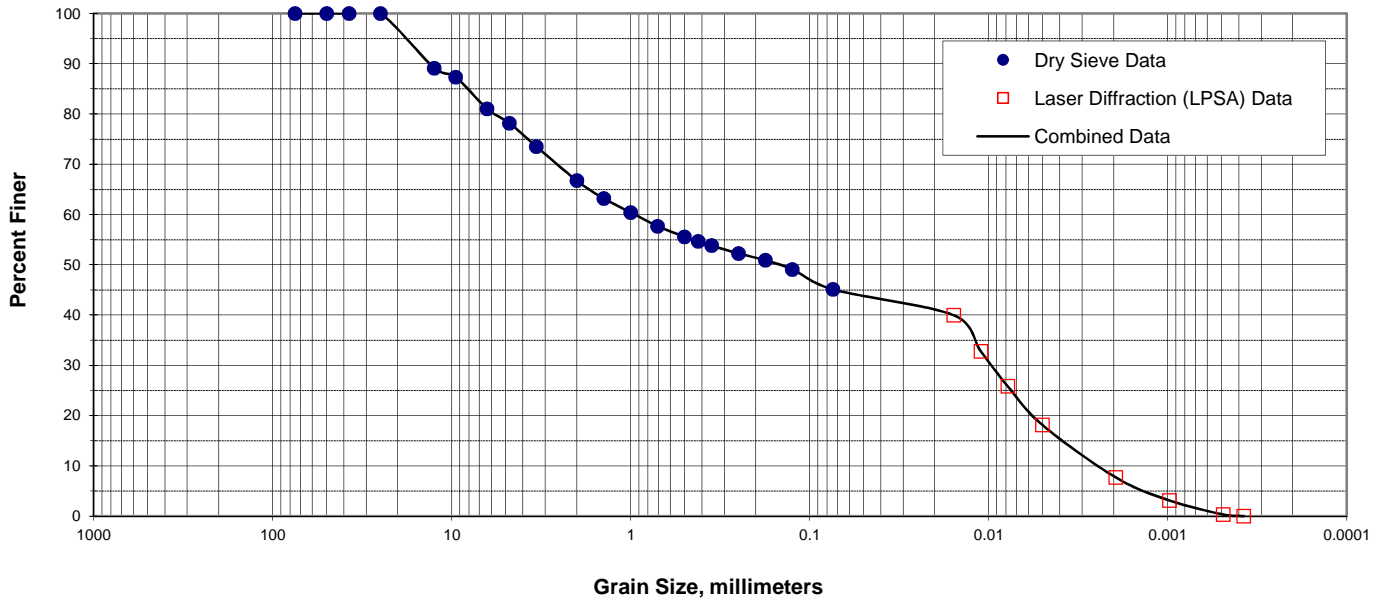
Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	51.7
Coarse Sand	10	3.6
Medium Sand	40	4.2
Fine Sand	200	6.6
Silt	>0.005 mm	12.4
Clay	<0.005 mm	21.6
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-R118-44.0-44.3
Depth, ft: 44.0-44.3

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data						Laser Diffraction (LPSA) Data					
Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer	Opening		Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
Inches	Millimeters					Inches	Millimeters				
2.95	75.0	-6.23	3"	0.00	100.00	0.250	6.351	-2.67	1/4	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00	0.187	4.757	-2.25	4	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00	0.132	3.364	-1.75	6	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00	0.079	2.000	-1.00	10	0.00	100.00
0.492	12.5	-3.64	1/2	10.87	89.13	0.047	1.189	-0.25	16	0.03	99.97
0.374	9.50	-3.25	3/8	12.66	87.34	0.033	0.841	0.25	20	1.04	98.96
0.250	6.35	-2.67	1/4	18.95	81.05	0.028	0.707	0.50	25	1.81	98.19
0.187	4.76	-2.25	4	21.84	78.16	0.023	0.595	0.75	30	2.81	97.19
0.132	3.36	-1.75	6	26.47	73.53	0.020	0.500	1.00	35	4.04	95.96
0.079	2.00	-1.00	10	33.25	66.75	0.017	0.420	1.25	40	5.18	94.82
0.056	1.414	-0.50	14	36.81	63.19	0.0139	0.3536	1.50	45	5.99	94.01
0.039	1.000	0.00	18	39.59	60.41	0.0117	0.2973	1.75	50	7.13	92.87
0.028	0.707	0.50	25	42.31	57.69	0.0098	0.2500	2.00	60	8.32	91.68
0.020	0.500	1.00	35	44.42	55.58	0.0083	0.2102	2.25	70	9.67	90.33
0.017	0.420	1.25	40	45.31	54.69	0.0070	0.1768	2.50	80	11.11	88.89
0.014	0.354	1.50	45	46.18	53.82	0.0059	0.1487	2.75	100	12.86	87.14
0.010	0.250	2.00	60	47.75	52.25	0.0049	0.1250	3.00	120	15.13	84.87
0.007	0.1768	2.50	80	49.11	50.89	0.0041	0.1051	3.25	140	17.95	82.05
0.005	0.1250	3.00	120	50.91	49.09	0.0035	0.0884	3.50	170	21.27	78.73
0.003	0.0743	3.75	200	54.89	45.11	0.0029	0.0743	3.75	200	25.03	74.97
0.002	0.0526	4.25	270	55.28	44.72	0.0025	0.0625	4.00	230	29.12	70.88
0.001	0.0372	4.75	400	55.37	44.63	0.0021	0.0526	4.25	270	33.36	66.64
			PAN	100	0.00	0.0017	0.0442	4.50	325	37.59	62.41
						0.0015	0.0372	4.75	400	41.70	58.30
						0.0012	0.0313	5.00	450	45.65	54.35
						0.0010	0.0250	5.32	500	50.46	49.54
						0.0008	0.0201	5.64	635	55.04	44.96
						0.0006	0.0156	6.00		60.05	39.95
						0.0004	0.0110	6.50		67.22	32.78
						0.0003	0.0078	7.00		74.19	25.81
						0.0002	0.0050	7.65		81.89	18.11
						0.00008	0.00195	9.00		92.28	7.72
						0.00004	0.00098	10.00		96.89	3.11
						0.00002	0.00049	11.00		99.69	0.31
						0.00001	0.00038	11.38		100.00	0.00

Client: Ramboll Environ
Project: NERT
Project No: 2141400C, MO3D

PTS File No: 47229
Sample ID: PT-RI18-44.0-44.3
Depth, ft: 44.0-44.3

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA						
Opening		Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
Inches	Millimeters					
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	10.9	89.1	10.9
0.374	9.50	-3.25	3/8	1.8	87.3	12.7
0.250	6.35	-2.67	1/4	6.3	81.1	18.9
0.1873	4.76	-2.25	4	2.9	78.2	21.8
0.1324	3.364	-1.75	6	4.6	73.5	26.5
0.0787	2.000	-1.00	10	6.8	66.7	33.3
0.0557	1.414	-0.50	14	3.6	63.2	36.8
0.0394	1.000	0.00	18	2.8	60.4	39.6
0.0278	0.707	0.50	25	2.7	57.7	42.3
0.0197	0.500	1.00	35	2.1	55.6	44.4
0.01655	0.420	1.25	40	0.9	54.7	45.3
0.01392	0.354	1.50	45	0.9	53.8	46.2
0.00984	0.2500	2.00	60	1.6	52.3	47.7
0.00696	0.1768	2.50	80	1.4	50.9	49.1
0.00492	0.1250	3.00	120	1.8	49.1	50.9
0.00293	0.0743	3.75	200	4.0	45.1	54.9
0.00062	0.0156	6.00		5.2	39.9	60.1
0.00043	0.0110	6.50		7.2	32.8	67.2
0.00031	0.0078	7.00		7.0	25.8	74.2
0.00020	0.0050	7.65		7.7	18.1	81.9
0.00008	0.0020	9.00		10.4	7.7	92.3
0.00004	0.0010	10.00		4.6	3.1	96.9
0.00002	0.0005	11.00		2.8	0.3	99.7
0.00001	0.0004	11.38		0.3	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS			
Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.18	0.7157	18.178
10	-3.72	0.5203	13.216
16	-2.94	0.3020	7.671
25	-1.91	0.1478	3.754
40	0.07	0.0374	0.949
50	2.75	0.0059	0.149
60	5.98	0.0006	0.016
75	7.07	0.0003	0.007
84	7.92	0.0002	0.004
90	8.70	0.0001	0.002
95	9.59	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	2.75	2.75	2.75
Median, in.	0.0059	0.0059	0.0059
Median, mm	0.149	0.149	0.149
Mean, phi	-0.91	2.49	2.58
Mean, in.	0.0740	0.0070	0.0066
Mean, mm	1.881	0.178	0.168
Sorting	22.445	5.430	4.802
Skewness	1.124	-0.048	-0.027
Kurtosis	0.142	0.268	0.629

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Trask Median)

Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	21.8
Coarse Sand	10	11.4
Medium Sand	40	12.1
Fine Sand	200	9.6
Silt	>0.005 mm	27.0
Clay	<0.005 mm	18.1
Total		100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

CHAIN-OF-CUSTODY FORM

No 12960

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT MSA #
 PROJECT LOCATION Henderson, NV FIELD PERSON# Amy Manion
 PROJECT NUMBER 21414006, M03B PROJECT MANAGER Ross Russell
 SAMPLER Amy Manion LABORATORY PTS SIGNATURE

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI7-74.0-74.5	4/12/17	0920	74.0-74.5	✓	S	1	U	NO	✓	
PT-RI7-83.4-83.9		0845	83.4-83.9	✓					✗	
PT-RI7-92.5-93.0		0830	92.5-93.0	✓					✗	
PT-RI7-103.0-103.5		0820	103.0-103.5	✓					✗	
PT-RI7-124.0-124.5		0806	124.0-124.5	✓					✗	
PT-RI7-128.0-128.5		0715	128.0-128.5	✓					✗	
PT-RI9-16.0-16.5		0950	16.0-16.5	✓					✗	
PT-RI9-31.5-32.0		0940	31.5-32.0	✓					✗	
PT-RI9-48.0-48.5		0930	48.0-48.5	✓					✗	
PT-RI9-72.5-73.0		1000	72.5-73.0	✓					✗	
PT-RI9-100.7-101.2		1120	100.7-101.2	✓					✗	
PT-RI9-103.8-104.3	4/12/17	1130	103.8-104.3	✓	S	1	U	NO	✓	
TOTAL						12				

RELINQUISHED BY <i>Amy Manion</i>	TIME/DATE 4/26/17 1400	RECEIVED BY COMPANY <i>PTS</i> LABS	TIME/DATE 4/27/17 1250	SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT <input checked="" type="radio"/> N TEMP 73.3 °F INTACT Y N

Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No 12961

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID **NERT**
 PROJECT LOCATION **Henderson, NV**
 PROJECT NUMBER **21414006, MO33**
 SAMPLER **Amy Manion**
 FIELD PERSON# **Amy Manion**
 PROJECT MANAGER **Ross Russell**
 LABORATORY **PTS**
 DATE **4/26/2017**
 YEAR **2017**
 SIGNATURE

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI9-108.5-109.0	4/22/17	1135	108.5-109.0	✓	S	1	U	NO		
PT-RI9-122.5-123.0	4/22/17	1145	122.5-123.0	✓	S	1	U	NO		
PT-RI9-128.0-128.5	4/22/17	1155	128.0-128.5	✓	S	1	U	NO		
PT-RI10-102.5-103.0	4/20/17	1355	102.5-103.0	✓	S	1	U	NO		
PT-RI10-112.3-112.6	4/20/17	1355	112.3-112.6	✓	S	1	U	NO		
PT-RI10-118.4-118.8	4/20/17	1400	118.4-118.8	✓	S	1	U	NO		
PT-RI20-41.0-41.5	4/22/17	1507	41.0-41.5	✓	S	1	U	NO		
PT-RI20-48.5-49.0	4/22/17	1514	48.5-49.0	✓	S	1	U	NO		
PT-RI20-55.5-55.8	4/22/17	1523	55.5-55.8	✓	S	1	U	NO		
PT-RI20-63.0-63.5	4/22/17	1532	63.0-63.5	✓	S	1	U	NO		
PT-RI20-73.0-73.3	4/22/17	1540	73.0-73.3	✓	S	1	U	NO		
PT-RI20-81.5-82.0	4/22/17	1555	81.5-82.0	✓	S	1	U	NO		
TOTAL						12				

RELINQUISHED BY <i>Amy Manion (FedEx)</i>	TIME/DATE 1400 4/26/17	RECEIVED BY COMPANY <i>[Signature]</i> PTS LABS	TIME/DATE 4/27/17 12:50	SAME DAY 72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	24 HOURS 5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	48 HOURS (NORMAL)
				SAMPLE INTEGRITY INTACT Y N
				SAMPLE INTEGRITY INTACT Y N

SYU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No 13118

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #
 PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 21414006, M03B LABORATORY PTS
 SAMPLER Amy Manion/Grey Kimsall YEAR 2017 SIGNATURE

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI20-108.5-109.0	4/23/17	1032	108.5-109.0	✓	S 1 U NO	1	U	NO	X	
PT-RI20-112.5-113.0		1042	112.5-113.0	✓		1			X	* Hold samples pending further instruction from J. Donovan/Ramboll Environ
PT-RI20-117.5-118.0		1047	117.5-118.0	✓		1			X	
PT-RI20-123.5-124.0		1107	123.5-124.0	✓		1			X	
PT-RI20-128.0-128.5		1120	128.0-128.5	✓		1			X	
PT-RI24-22.0-22.3		1309	22.0-22.3	✓		1			X	
PT-RI24-27.0-27.3		1316	27.0-27.3	✓		1			X	
PT-RI24-32.0-32.3		1322	32.0-32.3	✓		1			X	
PT-RI24-36.2-36.5		1328	36.2-36.5	✓		1			X	
PT-RI24-42.0-42.5		1343	42.0-42.5	✓		1			X	
PT-RI24-48.0-48.3		1356	48.0-48.3	✓		1			X	
PT-RI24-66.5-67.0	✓	1402	66.5-67.0	✓	S 1 U NO	1	U	NO	X	
TOTAL						12				

RELINQUISHED BY <u>Amy Manion (FedEx)</u>	TIME/DATE 1400 4/26/17	RECEIVED BY COMPANY <u>PTS LABS</u>	TIME/DATE 4/27/17 1250	SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS (NORMAL)
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP <u>73.3 F</u>

CHAIN-OF-CUSTODY FORM

NO 13119

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT
 PROJECT LOCATION Henderson, NV DATE 4/26/17
 PROJECT NUMBER 2141400C M03B
 SAMPLER Amy Manion/Greg Kinsall YEAR 2017

FIELD PERSON# Amy Manion
 PROJECT MANAGER Ross Russell
 LABORATORY PTS
 SIGNATURE

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI24-08.7-69.0	4/23/17	1412	68.7-69.0	/	S	1	U	NO	X	* Hold samples pending further instruction from J. Donovan / Ramboll Environ
PT-RI24-78.5-78.8		1419	78.5-78.8	/					X	
PT-RI24-83.7-84.0		1429	83.7-84.0	/					X	
PT-RI24-93.5-94.0		1439	93.5-94.0	/					X	
PT-RI24-107.0-107.5		1449	107.0-107.5	/					X	
PT-RI24-113.0-113.5		1459	113.0-113.5	/					X	
PT-RI24-122.0-122.5		1511	122.0-122.5	/					X	
PT-RI24-142.0-142.5		1522	142.0-142.5	/					X	
PT-RI24-147.7-148.0	4/23/17	1533	147.7-148.0	/					X	
PT-RI21-76.0-76.3	4/24/17	1333	76.0-76.3	/					X	
PT-RI25-22.5-22.8	4/24/17	1346	22.5-22.8	/					X	
PT-RI25-28.0-28.3	4/24/17	1352	28.0-28.3	/	S	1	U	NO	X	
TOTAL						12				

RELINQUISHED BY <u>Amy Manion (FedEx)</u>	TIME/DATE 1400 / 4/26/17	RECEIVED BY COMPANY <u>PTS LABS</u>	TIME/DATE 4/27/17 1250	SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS <u>NORMAL</u>
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N

CHAIN-OF-CUSTODY FORM

No 13120

JUST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #
 PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Rose Russell
 PROJECT NUMBER 2141400, M03B LABORATORY PTS
 SAMPLER Amy Manion YEAR 2017 SIGNATURE _____

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI25-31.7-32.0	4/24/17	1358	31.7-32.0	/	S	1	U	NO	X	* Hold samples
PT-RI25-36.2-36.5		1404	36.2-36.5	/					X	pending further instruction from J. Donovan/Ramboll Environ
PT-RI25-42.3-42.8		1410	42.3-42.8	/					X	
PT-RI25-48.5-48.8		1455	48.5-48.8	/					X	
PT-RI25-65.5-65.8		1502	65.5-65.8	/					X	
PT-RI25-68.0-68.3		1510	68.0-68.3	/					X	
PT-RI25-78.2-78.5		1517	78.2-78.5	/					X	
PT-RI25-83.5-84.0		1525	83.5-84.0	/					X	
PT-RI25-93.1-93.6		1534	93.1-93.6	/					X	
PT-RI25-106.0-106.3		1543	106.0-106.3	/					X	
PT-RI25-113.5-114.0		1552	113.5-114.0	/					X	
PT-RI25-122.0-122.4		1600	122.0-122.4	/	S	1	U	NO	X	
TOTAL						12				

RELINQUISHED BY <i>Amy Manion</i>	TIME/DATE 1400 / 4/26/17	RECEIVED BY COMPANY <i>[Signature]</i>	TIME/DATE 4/27/17 1250	SAME DAY 72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	24 HOURS 5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	48 HOURS (NORMAL)
SAMPLE INTEGRITY			INTACT <input checked="" type="radio"/> Y <input type="radio"/> N	TEMP 73.3 F

CHAIN-OF-CUSTODY FORM

No 13121

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID VERT FIELD PERSON # Amy Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400, M03B LABORATORY PTS
 SAMPLER Amy Manion YEAR 2017 SIGNATURE

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI25-142.3-142.8	4/24/17	1607	142.3-142.8	1	S	1	U	NO	X	* Hold samples pending further instruction from J. Donovan / Ramboll Environ
PT-RI25-147.5-147.8	4/24/17	1615	147.5-147.8	1	S	1	U	NO	X	
PT-RI1-33.0-33.3	4/25/17	1032	33.0-33.3	1	S	1	U	NO	X	
PT-RIS-75.0-75.5	4/8/17	0820	75.0-75.5	1	S	1	U	NO	X	
PT-RIS-82.3-82.8	4/8/17	0840	82.3-82.8	1	S	1	U	NO	X	
PT-RIS-87.2-87.7	4/8/17	0850	87.2-87.7	1	S	1	U	NO	X	
PT-RI7-109.0-109.5	4/12/17	0740	109.0-109.5	1	S	1	U	NO	X	
PT-RI7-122.5-123.0	4/12/17	0730	122.5-123.0	1	S	1	U	NO	X	
PT-RI18-21.0-21.3	4/26/17	1045	21.0-21.3	1	S	1	U	NO	X	
PT-RI18-24.7-25.0	4/26/17	1052	24.7-25.0	1	S	1	U	NO	X	
PT-RI18-26.5-26.8	4/26/17	1100	26.5-26.8	1	S	1	U	NO	X	
PT-RI18-28.5-28.8	4/26/17	1108	28.5-28.8	1	S	1	U	NO	X	
TOTAL				12						

RELINQUISHED BY [Signature] TIME/DATE 1400 / 4/26/17 RECEIVED BY COMPANY PTS LABS TIME/DATE 4/27/17 1250 SAME DAY 72 HOURS
 RELINQUISHED BY [Signature] TIME/DATE 1108 / 4/26/17 RECEIVED BY COMPANY PTS LABS TIME/DATE 4/27/17 1250 24 HOURS 5 DAYS
 RELINQUISHED BY [Signature] TIME/DATE 1108 / 4/26/17 RECEIVED BY COMPANY PTS LABS TIME/DATE 4/27/17 1250 48 HOURS NORMAL SAMPLE INTEGRITY INTACT Y N

47229

CHAIN-OF-CUSTODY

PROJECT NAME / FACILITY ID: VERT FIELD PERSON: Amy Navion
 PROJECT NUMBER: 214400C, M03B DATE: 4/26/17 PROJECT MANAGER: Ross Russell
 PROJECT LOCATION: Henderson, NV LABORATORY: PTS

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER:	SIGNATURE:	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI18-33.0-33.3	<i>Amy Navion</i>	2017	4/26	113	33.0-33.3	S	1	U	No	X	* Hold samples
PT-RI18-40.5-41.0	<i>[Signature]</i>			1158	40.5-41.0					X	pending further instruction from
PT-RI18-44.0-44.3				1210	44.0-44.3					X	J. Donovan/Ramboll Environ
PT-RI18-53.5-54.0				1216	53.5-54.0					X	
PT-RI18-67.5-67.8				1223	67.5-67.8					X	
PT-RI18-93.5-94.0				1229	93.5-94.0					X	
PT-RI18-104.0-104.5				1237	104.0-104.5	S	1	U	NO	X	
TOTAL							7				

RELINQUISHED BY: *Amy Navion* (FedEx) TIME/DATE: 1400 / 4/26/17
 RECEIVED BY: *[Signature]* PTS LABS TIME/DATE: 4/27/17 12:50
 (COMPANY):
 RELINQUISHED BY: TIME/DATE:
 (COMPANY):
 RECEIVED BY: TIME/DATE:
 (COMPANY):

TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS NORMAL

IF SEALED, SEAL INTEGRITY INTACT: Y N
 SAMPLE INTEGRITY INTACT: Y N Temp: 73.3 °F



5730 Centralcrest St. • Houston, TX 77092
Telephone (713) 316-1800 • Fax (877) 225-9953

January 30, 2018

Ross Russell, PG
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 47270
Project Name: NERT
Project Number: 2141400C M03D

Dear Mr. Russell,

Please find enclosed report for Physical Properties analyses conducted upon samples received from your NERT project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please contact myself or Emeka Anazodo at (713) 316-1800.

Sincerely,
PTS Laboratories, Inc.

Rick Schweizer

Rick Schweizer
Laboratory Supervisor

Encl.

Project Name: NERT
 Project Number: 21-41400C, Phase M03D

PTS File No: 47270
 Client: Ramboll Environ

TEST PROGRAM - 20171211

CORE ID	Depth ft.	Plugs: ID#	Grain Size Analysis (+USCS Class.)	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density ASTM D2937	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Whole Core	Vert. 1.5"	Vert. 1.5"	Grab	
Date Received: 20170524										
PT-RIDB16-51.4-51.8	51.4-51.8	1	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RIDB16-54.5-55.0	54.5-55.0	2	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RIDB16-74.5-74.8	74.5-74.8	3	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RIDB29-68.5-68.8	68.5-68.8	4	X	X(1)					X	16 oz jar
PT-RIDB29-77.8-78.3	77.8-78.3	5	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RIDB29-81.5-81.8	81.5-81.8	6	X	X(1)					X	16 oz jar
PT-RI12-52.4-52.9	52.4-52.9	7	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI12-65.3-65.9	65.3-65.9	8	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI12-73.5-73.8	73.5-73.8	9	X	X(1)					X	16 oz jar
PT-RI12-102.0-102.6	102.0-102.6	10	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI12-127.0-127.3	127.0-127.3	11	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI12-145.7-146.0	145.7-146.0	12	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI13-76.3-76.8	76.3-76.8	13	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI13-84.5-85.0	84.5-85.0	14	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI13-107.0-107.7	107.0-107.7	15	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI13-117.5-118.0	117.5-118.0	16	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI13-142.4-143.0	142.4-143.0	17	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI27-46.0-46.3	46.0-46.3	18	X	X(1)					X	16 oz jar
PT-RI27-60.5-60.8	60.5-60.8	19	X	X(1)					X	16 oz jar
PT-RI27-74.0-74.3	74.0-74.3	20	X	X(1)					X	16 oz jar
PT-RI27-97.5-97.8	97.5-97.8	21	X	X(1)					X	16 oz jar
PT-M204-23.0-23.3	23.0-23.3	22	X	X(1)					X	16 oz jar
PT-M204-31.0-31.3	31.0-31.3	23	X	X(1)					X	16 oz jar
PT-M204-38.5-38.8	38.5-38.8	24	X	X(1)					X	16 oz jar
PT-M204-41.2-41.5	41.2-41.5	25	X	X(1)					X	16 oz jar
PT-M204-46.0-46.5	46.0-46.5	26	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M204-53.5-53.8	53.5-53.8	27	X	X(1)					X	16 oz jar
PT-M204-63.5-64.0	63.5-64.0	28	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M204-74.0-74.3	74.0-74.3	29	X	X(1)					X	16 oz jar
PT-M204-88.8-89.3	88.8-89.3	30	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M204-108.2-108.7	108.2-108.7	31	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M205-45.3-45.8	45.3-45.8	32	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M206-21.5-21.8	21.5-21.8	33	X	X(1)					X	16 oz jar
PT-M206-28.0-28.3	28.0-28.3	34	X	X(1)					X	16 oz jar
PT-M206-30.0-30.5	30.0-30.5	35	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M210-12.5-12.8	12.5-12.8	36	X	X(1)					X	16 oz jar
PT-M210-26.5-26.8	26.5-26.8	37	X	X(1)					X	16 oz jar
PT-M210-35.5-36.0	35.5-36.0	38	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag

Project Name: NERT
 Project Number: 21-41400C, Phase M03D

PTS File No: 47270
 Client: Ramboll Environ

TEST PROGRAM - 20171211

CORE ID	Depth ft.	Plugs: ID#	Grain Size Analysis (+USCS Class.)	Atterberg Limits ASTM D4318	Moisture Content D2216	Dry Bulk Density ASTM D2937	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Vert. 1.5"	Whole Core	Vert. 1.5"	Vert. 1.5"	Grab	
PT-M210-41.0-41.5	41.0-41.5	39	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-M210-53.3-53.8	53.3-53.8	40	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M210-65.0-65.5	65.0-65.5	41	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-M210-77.3-77.8	77.3-77.8	42	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M212-42.8-43.3	42.8-43.3	43	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M212-49.8-50.3	49.8-50.3	44	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M212-60.1-60.6	60.1-60.6	45	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M212-65.1-65.6	65.1-65.6	46	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M213-24.7-25.0	24.7-25.0	47	X	X(1)					X	16 oz jar
PT-M213-43.5-44.0	43.5-44.0	48	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-M213-54.5-55.0	54.5-55.0	49	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-M213-65.3-65.8	65.3-65.8	50	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M213-86.5-87.0	86.5-87.0	51	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-M213-93.5-94.0	93.5-94.0	52	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M213-105.0-105.5	105.0-105.5	53	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M244-95.5-96.0	95.5-96.0	54	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M244-113.5-114.0	113.5-114.0	55	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M244-126.5-127.0	126.5-127.0	56	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
TOTALS:			56	56	38	38	38	7	56	53

Laboratory Test Program Notes

Contaminant identification: perchlorate, metals, VOCs

Standard TAT for basic analysis is 10-15 business days.

Grain Size Analysis: Combined laser/sieve method; includes tabular data, graphics and statistical sorting in Excel format.

Effective Porosity: Includes Total Porosity.

USCS Soil Classification by ASTM D2487 requires Atterberg Limits and Grain Size Analysis (included as part of Test Program).

Note (1): Laboratory to verify Atterberg Limits are required to classify fine fraction per Ramboll Environ Physical Testing Requests.

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422)

PROJECT NAME: NERT
PROJECT NO: 21-41400C, PHASE M03D

Report Date: 30-Jan-18

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size			Silt/Clay
					Coarse	Medium	Fine	
PT-RIDB16-51.4-51.8	51.4-51.8	Fine sand	0.071	0.00	0.00	15.81	32.68	51.52
PT-RIDB16--54.5-55.0	54.5-55.0	Fine sand	0.069	0.00	0.22	7.25	38.66	53.87
PT-RIDB16-74.5-74.8	74.5-74.8	Fine sand	0.071	0.00	0.13	16.69	31.50	51.68
PT-RIDB29-68.5-68.8	68.5-68.8	Fine sand	0.145	0.00	0.00	18.42	61.27	20.31
PT-RIDB29-77.8-78.3	77.8-78.3	Fine sand	0.102	0.00	1.30	16.37	47.70	34.63
PT-RIDB29-81.5-81.8	81.5-81.8	Silt	0.049	0.17	0.34	5.15	28.69	65.65
PT-RI12-52.4-52.9	52.4-52.9	Fine sand	0.087	0.00	0.32	13.46	41.74	44.47
PT-RI12-65.3-65.9	65.3-65.9	Fine sand	0.118	0.00	0.50	27.69	32.58	39.23
PT-RI12-73.5-73.8	73.5-73.8	Fine sand	0.100	0.00	5.81	22.39	31.83	39.97
PT-RI12-102.0-102.6	102.0-102.6	Fine sand	0.175	0.36	5.84	28.11	33.24	32.45
PT-RI12-127.0-127.3	127.0-127.3	Fine sand	0.139	0.00	4.06	24.58	37.71	33.65
PT-RI12-145.7-146.0	145.7-146.0	Fine sand	0.063	3.32	3.49	15.63	22.57	54.99
PT-RI13-76.3-76.8	76.3-76.8	Medium sand	0.187	11.21	8.48	17.92	35.51	26.88
PT-RI13-84.5-85.0	84.5-85.0	Fine sand	0.085	0.00	0.26	18.14	36.13	45.47
PT-RI13-107.0-107.7	107.0-107.7	Fine sand	0.108	8.32	2.57	14.76	41.35	33.01
PT-RI13-117.5-118.0	117.5-118.0	Fine sand	0.113	0.00	1.91	23.17	44.79	30.12
PT-RI13-142.4-143.0	142.4-143.0	Fine sand	0.101	0.00	1.41	24.59	30.49	43.51
PT-RI27-46.0-46.3	46.0-46.3	Fine sand	0.156	2.98	3.46	23.35	45.84	24.38
PT-RI27-60.5-60.8	60.5-60.8	Medium sand	0.546	10.08	17.73	28.89	31.93	11.37

(1) Based on Mean from Trask

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422)

PROJECT NAME: NERT
PROJECT NO: 21-41400C, PHASE M03D

Report Date: 30-Jan-18

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size			Silt/Clay
					Coarse	Medium	Fine	
PT-RI27-74.0-74.3	74.0-74.3	Medium sand	0.198	2.05	14.55	22.74	41.45	19.21
PT-RI27-97.5-97.8	97.5-97.8	Fine sand	0.091	0.00	3.19	14.48	42.91	39.41
PT-M204-23.0-23.3	23.0-23.3	Medium sand	0.699	10.40	16.90	30.52	39.48	2.70
PT-M204-31.0-31.3	31.0-31.3	Fine sand	0.092	0.00	1.02	19.34	38.60	41.04
PT-M204-38.5-38.8	38.5-38.8	Medium sand	0.891	10.01	18.75	37.18	24.65	9.41
PT-M204-41.2-41.5	41.2-41.5	Medium sand	0.759	12.74	16.59	30.68	24.19	15.80
PT-M204-46.0-46.5	46.0-46.5	Fine sand	0.102	0.14	1.20	24.27	30.77	43.62
PT-M204-53.5-53.8	53.5-53.8	Fine sand	0.082	0.34	1.51	16.14	35.23	46.78
PT-M204-63.5-64.0	63.5-64.0	Fine sand	0.280	0.00	0.93	28.87	68.69	1.52
PT-M204-74.0-74.3	74.0-74.3	Fine sand	0.063	0.00	0.00	10.66	28.69	60.65
PT-M204-88.8-89.3	88.8-89.3	Fine sand	0.158	0.13	2.56	30.94	29.84	36.54
PT-M204-108.2-108.7	108.2-108.7	Fine sand	0.094	0.00	0.00	20.84	35.35	43.81
PT-M205-45.3-45.8	45.3-45.8	Fine sand	0.106	0.00	0.58	19.03	41.58	38.81
PT-M206-21.5-21.8	21.5-21.8	Fine sand	0.102	0.27	1.60	11.44	51.59	35.11
PT-M206-28.0-28.3	28.0-28.3	Fine sand	0.139	0.14	0.91	26.17	45.97	26.81
PT-M206-30.0-30.5	30.0-30.5	Medium sand	0.280	0.05	10.01	34.74	29.76	25.44
PT-M210-12.5-12.8	12.5-12.8	Medium sand	0.649	4.53	21.05	32.03	28.36	14.04
PT-M210-26.5-26.8	26.5-26.8	Fine sand	0.150	1.71	3.26	21.10	48.10	25.83
PT-M210-35.5-36.0	35.5-36.0	Fine sand	0.132	0.00	0.89	18.59	51.37	29.15

(1) Based on Mean from Trask

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422)

PROJECT NAME: NERT
PROJECT NO: 21-41400C, PHASE M03D

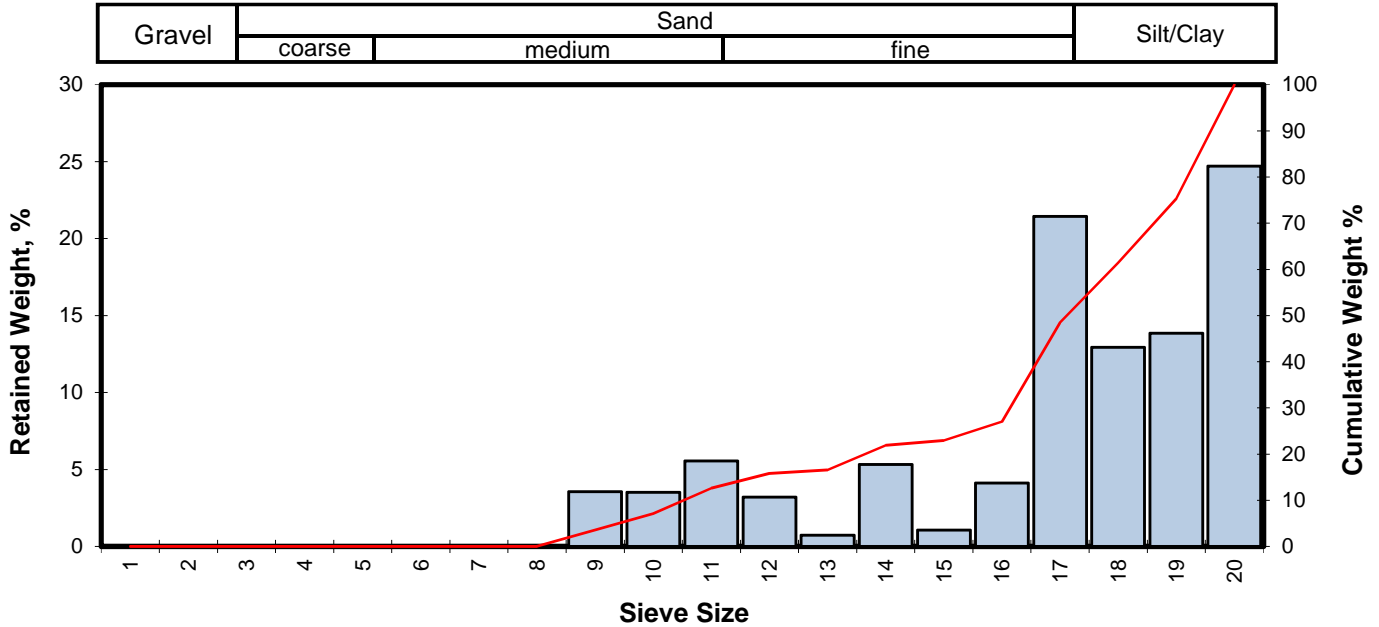
Report Date: 30-Jan-18

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size			Silt/Clay
					Coarse	Medium	Fine	
PT-M210-41.0-41.5	41.0-41.5	Fine sand	0.168	0.00	0.52	29.34	46.73	23.41
PT-M210-53.3-53.8	53.3-53.8	Fine sand	0.089	0.00	0.18	18.99	37.33	43.49
PT-M210-65.0-65.5	65.0-65.5	Fine sand	0.086	0.00	1.13	20.73	30.85	47.28
PT-M210-77.3-77.8	77.3-77.8	Fine sand	0.069	0.00	0.10	10.32	36.44	53.14
PT-M212-42.8-43.3	42.8-43.3	Fine sand	0.141	0.00	0.00	11.71	65.97	22.32
PT-M212-49.8-50.3	49.8-50.3	Fine sand	0.067	0.00	0.00	6.49	40.18	53.33
PT-M212-60.1-60.6	60.1-60.6	Fine sand	0.081	0.00	0.09	8.16	45.53	46.23
PT-M212-65.1-65.6	65.1-65.6	Fine sand	0.100	0.00	0.81	12.24	51.32	35.63
PT-M213-24.7-25.0	24.7-25.0	Medium sand	1.146	12.72	22.88	34.73	23.82	5.85
PT-M213-43.5-44.0	43.5-44.0	Fine sand	0.089	0.00	0.63	12.72	42.54	44.11
PT-M213-54.5-55.0	54.5-55.0	Fine sand	0.073	1.56	1.15	11.44	35.20	50.65
PT-M213-65.3-65.8	65.3-65.8	Fine sand	0.077	0.38	0.10	7.56	43.80	48.15
PT-M213-86.5-87.0	86.5-87.0	Fine sand	0.075	0.00	0.21	15.52	34.37	49.89
PT-M213-93.5-94.0	93.5-94.0	Fine sand	0.251	0.07	1.89	32.41	41.64	23.98
PT-M213-105.0-105.5	105.0-105.5	Fine sand	0.129	0.00	0.19	23.68	38.77	37.36
PT-M244-95.5-96.0	95.5-96.0	Medium sand	0.322	0.19	3.54	38.96	43.33	13.97
PT-M244-113.5-114.0	113.5-114.0	Fine sand	0.119	0.00	0.14	20.54	42.07	37.24
PT-M244-126.5-127.0	126.5-127.0	Fine sand	0.163	0.26	3.88	22.25	52.34	21.26

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RIDB16-51.4-51.8
 Depth, ft: 51.4-51.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.01	0.01	0.01
0.0394	1.000	0.00	18	3.91	3.55	3.56
0.0278	0.707	0.50	25	3.87	3.51	7.07
0.0197	0.500	1.00	35	6.11	5.54	12.61
0.0166	0.420	1.25	40	3.52	3.19	15.81
0.0139	0.354	1.50	45	0.81	0.74	16.54
0.0098	0.250	2.00	60	5.88	5.34	21.88
0.0070	0.177	2.50	80	1.16	1.05	22.93
0.0049	0.125	3.00	120	4.54	4.12	27.05
0.0029	0.074	3.75	200	23.62	21.43	48.48
0.0021	0.053	4.25	270	14.26	12.94	61.42
0.0015	0.037	4.75	400	15.27	13.86	75.28
PAN				27.24	24.72	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.21	0.0341	0.867
10	0.76	0.0232	0.589
16	1.32	0.0158	0.402
25	2.75	0.0058	0.149
40	3.45	0.0036	0.091
50	3.81	0.0028	0.071
60	4.19	0.0021	0.055
75	4.74	0.0015	0.037
84	3.07	0.0047	0.119
90	1.92	0.0104	0.264
95	0.96	0.0202	0.514

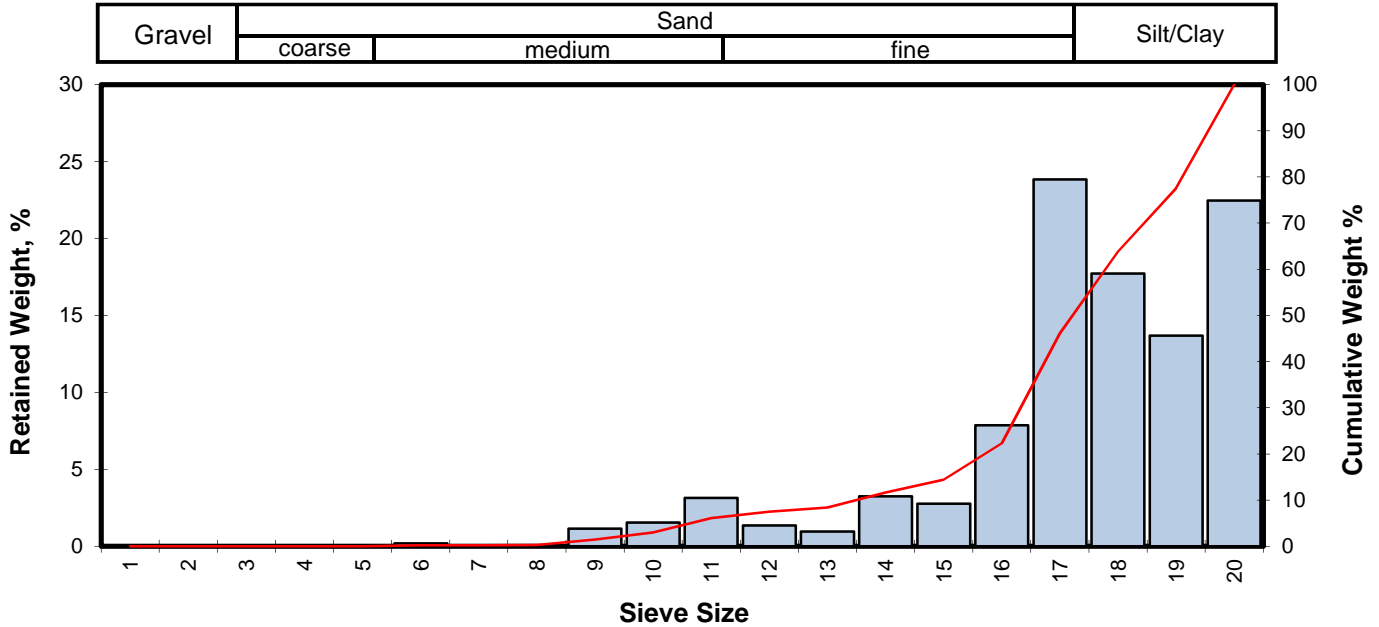
Measure	Trask	Inman	Folk-Ward
Median, phi	3.81	3.81	3.81
Median, in.	0.0028	0.0028	0.0028
Median, mm	0.071	0.071	0.071
Mean, phi	3.43	2.20	2.73
Mean, in.	0.0037	0.0086	0.0059
Mean, mm	0.093	0.218	0.150
Sorting	1.992	0.880	0.554
Skewness	1.045	-1.834	-5.187
Kurtosis	0.171	-0.571	0.156
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	15.81
Fine Sand	200	32.68
Silt/Clay	<200	51.52
TOTALS		100

TOTALS	110.20	100.00	100.00
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Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RIDB16--54.5-55.0
 Depth, ft: 54.5-55.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.36	0.19	0.19
0.0787	2.000	-1.00	10	0.06	0.03	0.22
0.0557	1.414	-0.50	14	0.12	0.06	0.29
0.0394	1.000	0.00	18	2.17	1.15	1.43
0.0278	0.707	0.50	25	2.90	1.54	2.97
0.0197	0.500	1.00	35	5.94	3.14	6.11
0.0166	0.420	1.25	40	2.56	1.36	7.47
0.0139	0.354	1.50	45	1.81	0.96	8.43
0.0098	0.250	2.00	60	6.14	3.25	11.68
0.0070	0.177	2.50	80	5.21	2.76	14.44
0.0049	0.125	3.00	120	14.85	7.86	22.30
0.0029	0.074	3.75	200	45.02	23.83	46.13
0.0021	0.053	4.25	270	33.48	17.72	63.85
0.0015	0.037	4.75	400	25.85	13.68	77.54
			PAN	42.43	22.46	100.00
TOTALS				188.90	100.00	100.00

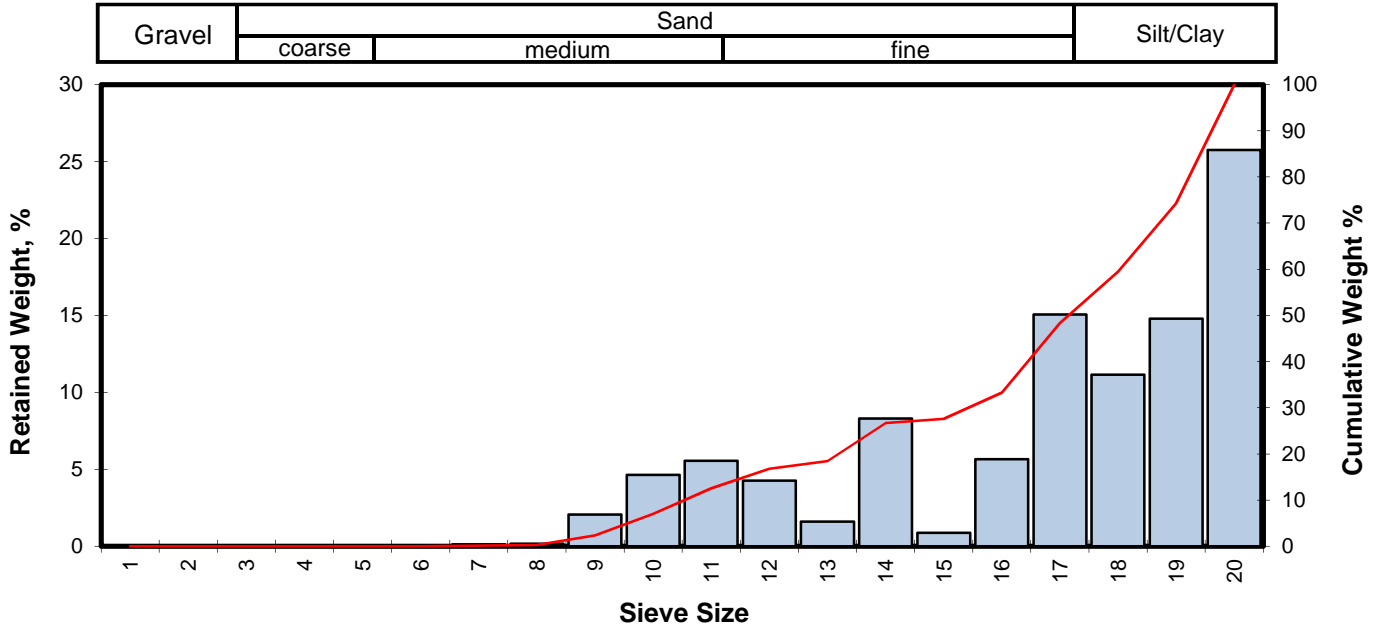
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.82	0.0223	0.565
10	1.74	0.0118	0.299
16	2.60	0.0065	0.165
25	3.09	0.0046	0.118
40	3.56	0.0033	0.085
50	3.86	0.0027	0.069
60	4.14	0.0022	0.057
75	4.66	0.0016	0.040
84	3.38	0.0038	0.096
90	2.11	0.0091	0.231
95	1.06	0.0189	0.481

Measure	Trask	Inman	Folk-Ward
Median, phi	3.86	3.86	3.86
Median, in.	0.0027	0.0027	0.0027
Median, mm	0.069	0.069	0.069
Mean, phi	3.67	2.99	3.28
Mean, in.	0.0031	0.0050	0.0041
Mean, mm	0.079	0.126	0.103
Sorting	1.724	0.392	0.232
Skewness	0.992	-2.213	-13.552
Kurtosis	0.574	-0.701	0.061
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.22
Medium Sand	40	7.25
Fine Sand	200	38.66
Silt/Clay	<200	53.87
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RIDB16-74.5-74.8
 Depth, ft: 74.5-74.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.19	0.13	0.13
0.0557	1.414	-0.50	14	0.24	0.16	0.29
0.0394	1.000	0.00	18	3.09	2.06	2.35
0.0278	0.707	0.50	25	6.97	4.65	6.99
0.0197	0.500	1.00	35	8.35	5.56	12.56
0.0166	0.420	1.25	40	6.39	4.26	16.81
0.0139	0.354	1.50	45	2.41	1.61	18.42
0.0098	0.250	2.00	60	12.46	8.30	26.72
0.0070	0.177	2.50	80	1.32	0.88	27.60
0.0049	0.125	3.00	120	8.49	5.66	33.26
0.0029	0.074	3.75	200	22.59	15.05	48.32
0.0021	0.053	4.25	270	16.72	11.14	59.46
0.0015	0.037	4.75	400	22.18	14.78	74.24
			PAN	38.65	25.76	100.00
TOTALS				150.05	100.00	100.00

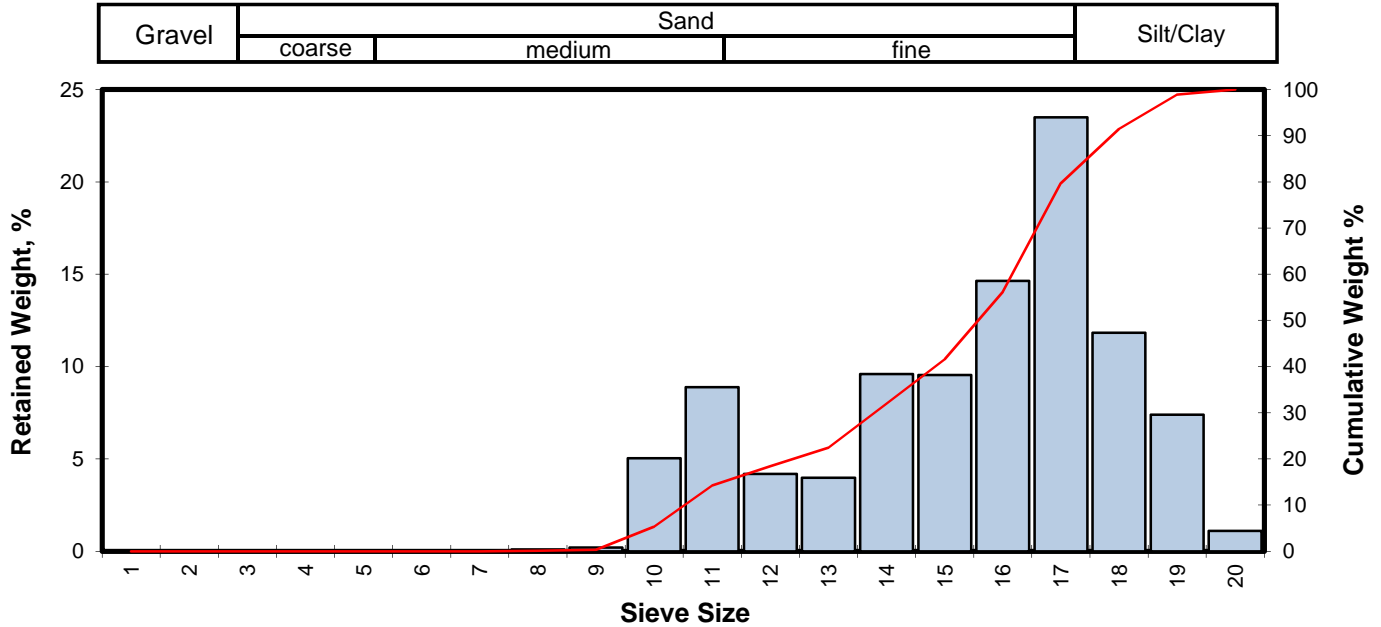
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.29	0.0323	0.820
10	0.77	0.0231	0.586
16	1.20	0.0171	0.435
25	1.90	0.0106	0.269
40	3.34	0.0039	0.099
50	3.83	0.0028	0.071
60	4.27	0.0020	0.052
75	4.61	0.0016	0.041
84	2.95	0.0051	0.129
90	1.84	0.0110	0.279
95	0.92	0.0208	0.528

Measure	Trask	Inman	Folk-Ward
Median, phi	3.83	3.83	3.83
Median, in.	0.0028	0.0028	0.0028
Median, mm	0.071	0.071	0.071
Mean, phi	2.69	2.08	2.66
Mean, in.	0.0061	0.0093	0.0062
Mean, mm	0.155	0.237	0.158
Sorting	2.562	0.874	0.534
Skewness	1.487	-2.001	-6.063
Kurtosis	0.370	-0.636	0.096
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.13
Medium Sand	40	16.69
Fine Sand	200	31.50
Silt/Clay	<200	51.68
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RIDB29-68.5-68.8
 Depth, ft: 68.5-68.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.11	0.10	0.10
0.0394	1.000	0.00	18	0.23	0.20	0.30
0.0278	0.707	0.50	25	5.75	5.05	5.34
0.0197	0.500	1.00	35	10.12	8.88	14.22
0.0166	0.420	1.25	40	4.78	4.19	18.42
0.0139	0.354	1.50	45	4.54	3.98	22.40
0.0098	0.250	2.00	60	10.94	9.60	32.00
0.0070	0.177	2.50	80	10.87	9.54	41.54
0.0049	0.125	3.00	120	16.69	14.65	56.19
0.0029	0.074	3.75	200	26.78	23.50	79.69
0.0021	0.053	4.25	270	13.48	11.83	91.51
0.0015	0.037	4.75	400	8.42	7.39	98.90
PAN				1.25	1.10	100.00
TOTALS				113.96	100.00	100.00

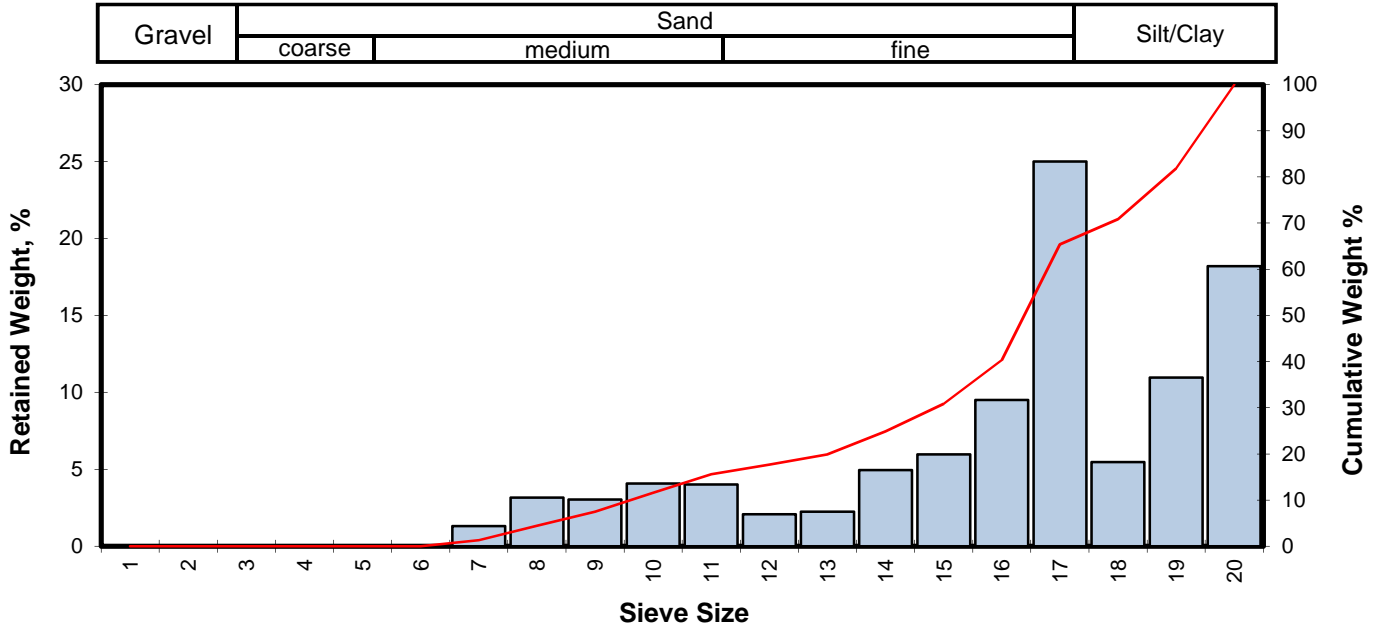
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.47	0.0285	0.724
10	0.76	0.0232	0.590
16	1.11	0.0183	0.465
25	1.64	0.0127	0.322
40	2.42	0.0074	0.187
50	2.79	0.0057	0.145
60	3.12	0.0045	0.115
75	3.60	0.0032	0.082
84	3.93	0.0026	0.066
90	4.19	0.0022	0.055
95	4.49	0.0018	0.045

Measure	Trask	Inman	Folk-Ward
Median, phi	2.79	2.79	2.79
Median, in.	0.0057	0.0057	0.0057
Median, mm	0.145	0.145	0.145
Mean, phi	2.31	2.52	2.61
Mean, in.	0.0080	0.0069	0.0065
Mean, mm	0.202	0.174	0.164
Sorting	1.976	1.413	1.316
Skewness	1.126	-0.191	-0.173
Kurtosis	0.224	0.422	0.838
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	18.42
Fine Sand	200	61.27
Silt/Clay	<200	20.31
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RIDB29-77.8-78.3
 Depth, ft: 77.8-78.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	1.93	1.30	1.30
0.0557	1.414	-0.50	14	4.69	3.17	4.47
0.0394	1.000	0.00	18	4.49	3.03	7.50
0.0278	0.707	0.50	25	6.05	4.08	11.58
0.0197	0.500	1.00	35	5.95	4.02	15.60
0.0166	0.420	1.25	40	3.07	2.07	17.67
0.0139	0.354	1.50	45	3.34	2.25	19.92
0.0098	0.250	2.00	60	7.34	4.95	24.88
0.0070	0.177	2.50	80	8.85	5.97	30.85
0.0049	0.125	3.00	120	14.10	9.52	40.36
0.0029	0.074	3.75	200	37.05	25.00	65.37
0.0021	0.053	4.25	270	8.11	5.47	70.84
0.0015	0.037	4.75	400	16.25	10.97	81.81
PAN				26.96	18.19	100.00
TOTALS				148.18	100.00	100.00

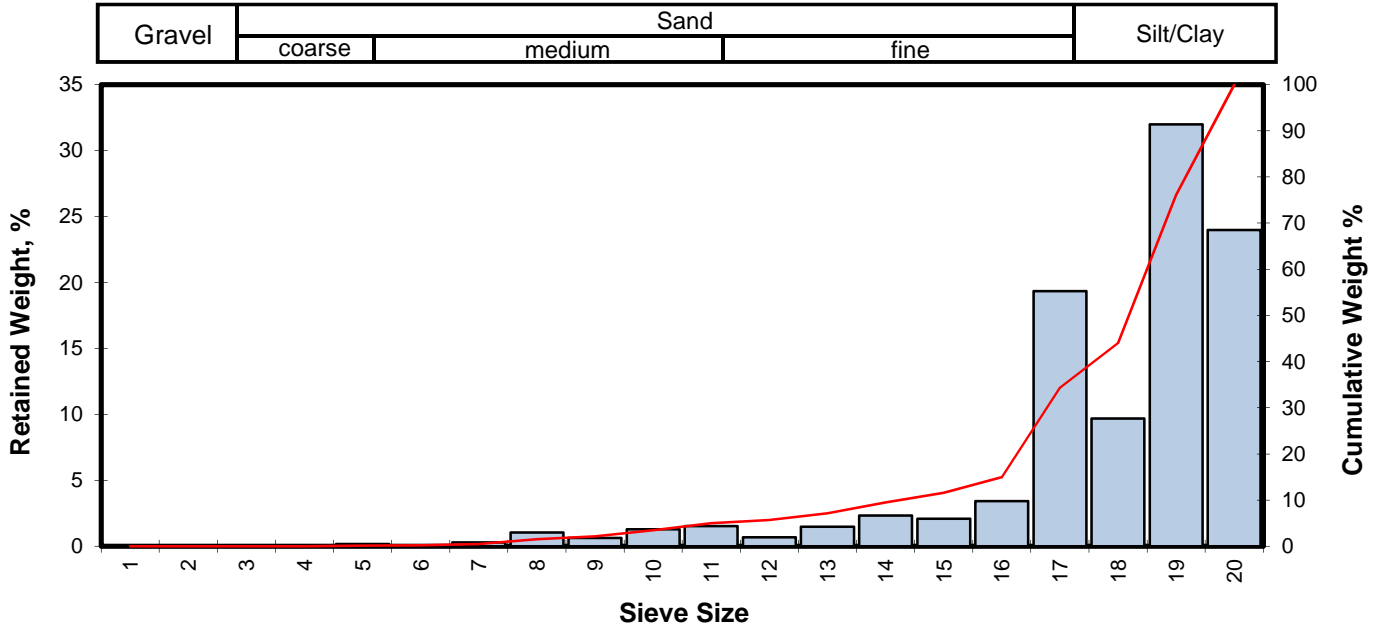
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.41	0.0524	1.331
10	0.31	0.0318	0.809
16	1.05	0.0190	0.483
25	2.01	0.0098	0.248
40	2.98	0.0050	0.127
50	3.29	0.0040	0.102
60	3.59	0.0033	0.083
75	4.44	0.0018	0.046
84	4.18	0.0022	0.055
90	2.61	0.0064	0.164
95	1.31	0.0159	0.405

Measure	Trask	Inman	Folk-Ward
Median, phi	3.29	3.29	3.29
Median, in.	0.0040	0.0040	0.0040
Median, mm	0.102	0.102	0.102
Mean, phi	2.76	2.61	2.84
Mean, in.	0.0058	0.0064	0.0055
Mean, mm	0.147	0.163	0.140
Sorting	2.321	1.564	1.042
Skewness	1.045	-0.432	-1.871
Kurtosis	0.157	-0.451	0.290
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	1.30
Medium Sand	40	16.37
Fine Sand	200	47.70
Silt/Clay	<200	34.63
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RIDB29-81.5-81.8
 Depth, ft: 81.5-81.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.35	0.17	0.17
0.1324	3.364	-1.75	6	0.12	0.06	0.23
0.0787	2.000	-1.00	10	0.59	0.28	0.51
0.0557	1.414	-0.50	14	2.16	1.04	1.54
0.0394	1.000	0.00	18	1.30	0.62	2.17
0.0278	0.707	0.50	25	2.70	1.30	3.46
0.0197	0.500	1.00	35	3.17	1.52	4.98
0.0166	0.420	1.25	40	1.41	0.68	5.66
0.0139	0.354	1.50	45	3.11	1.49	7.15
0.0098	0.250	2.00	60	4.88	2.34	9.49
0.0070	0.177	2.50	80	4.34	2.08	11.57
0.0049	0.125	3.00	120	7.14	3.42	15.00
0.0029	0.074	3.75	200	40.33	19.35	34.35
0.0021	0.053	4.25	270	20.21	9.69	44.04
0.0015	0.037	4.75	400	66.67	31.98	76.02
			PAN	49.99	23.98	100.00
TOTALS				208.47	100.00	100.00

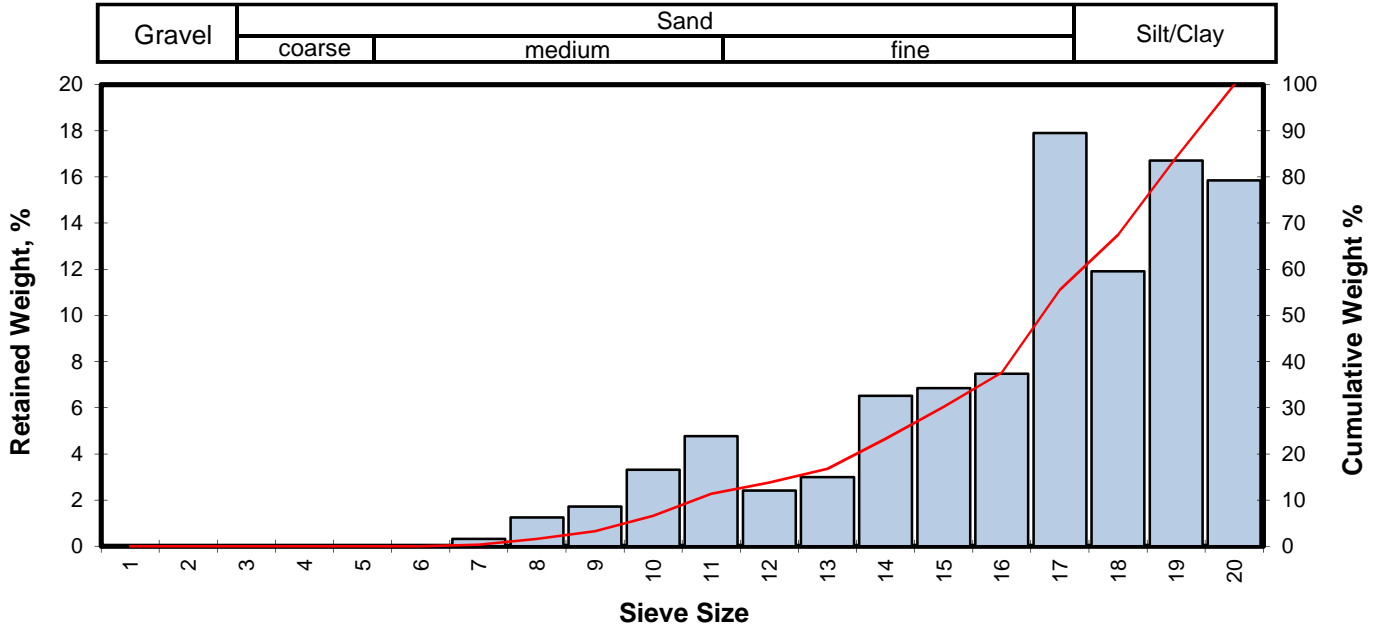
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.01	0.0196	0.498
10	2.12	0.0090	0.230
16	3.04	0.0048	0.122
25	3.39	0.0038	0.096
40	4.04	0.0024	0.061
50	4.34	0.0019	0.049
60	4.50	0.0017	0.044
75	4.73	0.0015	0.038
84	3.17	0.0044	0.111
90	1.98	0.0100	0.253
95	0.99	0.0198	0.503

Measure	Trask	Inman	Folk-Ward
Median, phi	4.34	4.34	4.34
Median, in.	0.0019	0.0019	0.0019
Median, mm	0.049	0.049	0.049
Mean, phi	3.91	3.10	3.52
Mean, in.	0.0026	0.0046	0.0034
Mean, mm	0.067	0.116	0.087
Sorting	1.595	0.065	0.030
Skewness	1.216	-18.976	206.191
Kurtosis	-1.229	-1.119	-0.005
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.17
Coarse Sand	10	0.34
Medium Sand	40	5.15
Fine Sand	200	28.69
Silt/Clay	<200	65.65
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI12-52.4-52.9
 Depth, ft: 52.4-52.9



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.46	0.32	0.32
0.0557	1.414	-0.50	14	1.77	1.25	1.57
0.0394	1.000	0.00	18	2.43	1.72	3.29
0.0278	0.707	0.50	25	4.70	3.32	6.61
0.0197	0.500	1.00	35	6.75	4.77	11.38
0.0166	0.420	1.25	40	3.41	2.41	13.79
0.0139	0.354	1.50	45	4.25	3.00	16.79
0.0098	0.250	2.00	60	9.23	6.52	23.31
0.0070	0.177	2.50	80	9.70	6.85	30.16
0.0049	0.125	3.00	120	10.59	7.48	37.63
0.0029	0.074	3.75	200	25.34	17.90	55.53
0.0021	0.053	4.25	270	16.87	11.91	67.44
0.0015	0.037	4.75	400	23.66	16.71	84.15
PAN				22.44	15.85	100.00
TOTALS				141.60	100.00	100.00

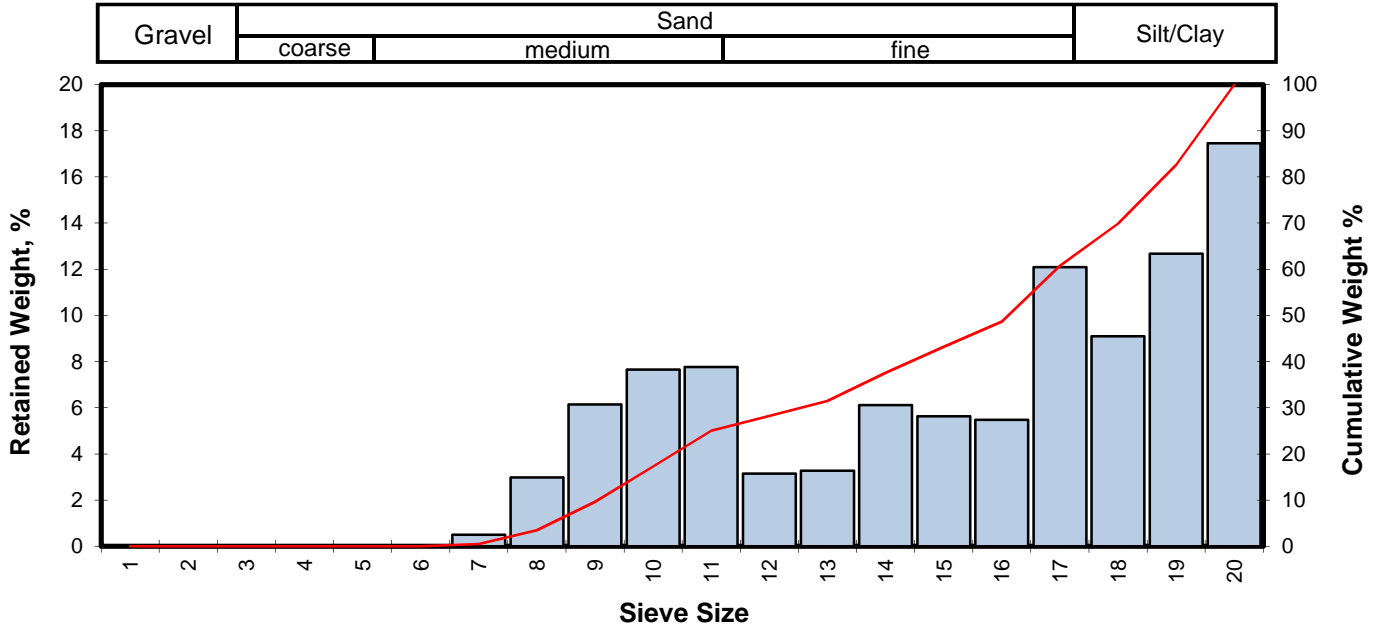
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.26	0.0329	0.837
10	0.86	0.0218	0.553
16	1.43	0.0146	0.370
25	2.12	0.0090	0.229
40	3.10	0.0046	0.117
50	3.52	0.0034	0.087
60	3.94	0.0026	0.065
75	4.48	0.0018	0.045
84	4.75	0.0015	0.037
90	3.00	0.0049	0.125
95	1.50	0.0139	0.354

Measure	Trask	Inman	Folk-Ward
Median, phi	3.52	3.52	3.52
Median, in.	0.0034	0.0034	0.0034
Median, mm	0.087	0.087	0.087
Mean, phi	2.87	3.09	3.23
Mean, in.	0.0054	0.0046	0.0042
Mean, mm	0.137	0.117	0.106
Sorting	2.260	1.655	1.016
Skewness	1.163	-0.259	-2.256
Kurtosis	0.216	-0.625	0.216
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.32
Medium Sand	40	13.46
Fine Sand	200	41.74
Silt/Clay	<200	44.47
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI12-65.3-65.9
 Depth, ft: 65.3-65.9



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.80	0.50	0.50
0.0557	1.414	-0.50	14	4.80	2.99	3.48
0.0394	1.000	0.00	18	9.88	6.15	9.63
0.0278	0.707	0.50	25	12.30	7.65	17.29
0.0197	0.500	1.00	35	12.47	7.76	25.05
0.0166	0.420	1.25	40	5.05	3.14	28.19
0.0139	0.354	1.50	45	5.26	3.27	31.46
0.0098	0.250	2.00	60	9.82	6.11	37.57
0.0070	0.177	2.50	80	9.04	5.63	43.20
0.0049	0.125	3.00	120	8.80	5.48	48.67
0.0029	0.074	3.75	200	19.43	12.09	60.77
0.0021	0.053	4.25	270	14.62	9.10	69.86
0.0015	0.037	4.75	400	20.37	12.68	82.54
PAN				28.06	17.46	100.00
TOTALS				160.70	100.00	100.00

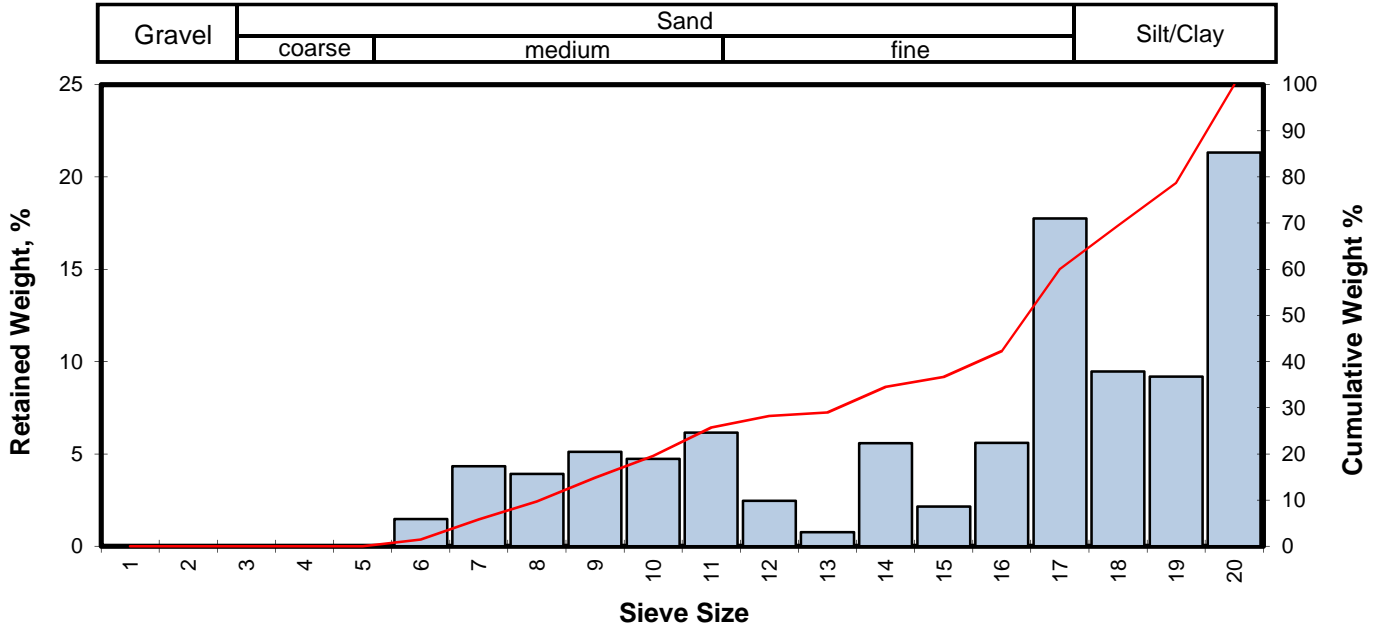
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.38	0.0511	1.298
10	0.02	0.0387	0.984
16	0.42	0.0295	0.750
25	1.00	0.0197	0.501
40	2.22	0.0085	0.215
50	3.08	0.0046	0.118
60	3.70	0.0030	0.077
75	4.45	0.0018	0.046
84	4.35	0.0019	0.049
90	2.72	0.0060	0.152
95	1.36	0.0153	0.390

Measure	Trask	Inman	Folk-Ward
Median, phi	3.08	3.08	3.08
Median, in.	0.0046	0.0046	0.0046
Median, mm	0.118	0.118	0.118
Mean, phi	1.87	2.38	2.62
Mean, in.	0.0108	0.0075	0.0064
Mean, mm	0.273	0.192	0.163
Sorting	3.312	1.968	1.247
Skewness	1.281	-0.355	-1.669
Kurtosis	0.274	-0.559	0.206
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.50
Medium Sand	40	27.69
Fine Sand	200	32.58
Silt/Clay	<200	39.23
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI12-73.5-73.8
 Depth, ft: 73.5-73.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	2.95	1.48	1.48
0.0787	2.000	-1.00	10	8.66	4.34	5.81
0.0557	1.414	-0.50	14	7.83	3.92	9.73
0.0394	1.000	0.00	18	10.21	5.11	14.84
0.0278	0.707	0.50	25	9.47	4.74	19.58
0.0197	0.500	1.00	35	12.30	6.16	25.74
0.0166	0.420	1.25	40	4.91	2.46	28.20
0.0139	0.354	1.50	45	1.51	0.76	28.96
0.0098	0.250	2.00	60	11.16	5.59	34.54
0.0070	0.177	2.50	80	4.29	2.15	36.69
0.0049	0.125	3.00	120	11.18	5.60	42.29
0.0029	0.074	3.75	200	35.44	17.74	60.03
0.0021	0.053	4.25	270	18.91	9.47	69.50
0.0015	0.037	4.75	400	18.34	9.18	78.68
PAN				42.59	21.32	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.14	0.0868	2.205
10	-0.47	0.0547	1.389
16	0.12	0.0362	0.919
25	0.94	0.0205	0.521
40	2.80	0.0057	0.144
50	3.33	0.0039	0.100
60	3.75	0.0029	0.074
75	4.55	0.0017	0.043
84	3.56	0.0033	0.085
90	2.23	0.0084	0.213
95	1.11	0.0182	0.462

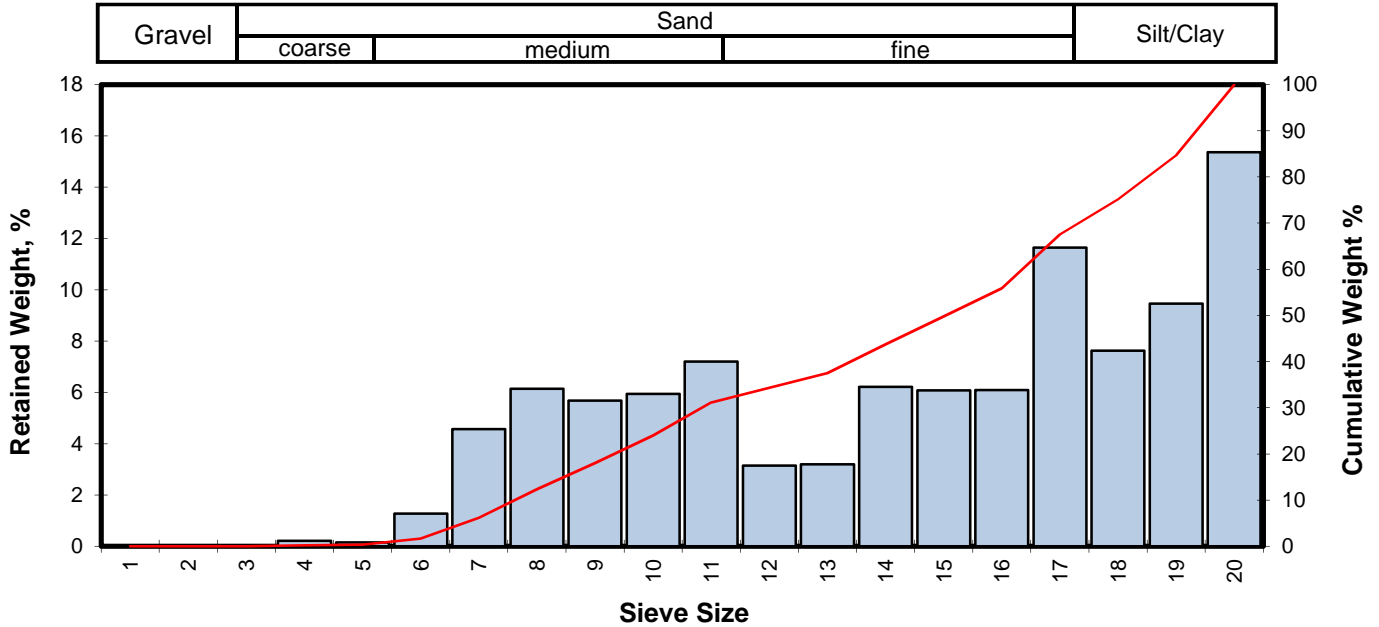
Measure	Trask	Inman	Folk-Ward
Median, phi	3.33	3.33	3.33
Median, in.	0.0039	0.0039	0.0039
Median, mm	0.100	0.100	0.100
Mean, phi	1.83	1.84	2.34
Mean, in.	0.0111	0.0110	0.0078
Mean, mm	0.282	0.279	0.198
Sorting	3.494	1.721	1.202
Skewness	1.496	-0.861	-1.912
Kurtosis	0.204	-0.345	0.256
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	5.81
Medium Sand	40	22.39
Fine Sand	200	31.83
Silt/Clay	<200	39.97
TOTALS	Total	100

TOTALS			199.75	100.00	100.00
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Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI12-102.0-102.6
 Depth, ft: 102.0-102.6



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.43	0.21	0.21
0.1873	4.757	-2.25	4	0.32	0.15	0.36
0.1324	3.364	-1.75	6	2.65	1.28	1.64
0.0787	2.000	-1.00	10	9.46	4.56	6.20
0.0557	1.414	-0.50	14	12.74	6.14	12.35
0.0394	1.000	0.00	18	11.78	5.68	18.03
0.0278	0.707	0.50	25	12.31	5.94	23.97
0.0197	0.500	1.00	35	14.92	7.20	31.16
0.0166	0.420	1.25	40	6.53	3.15	34.31
0.0139	0.354	1.50	45	6.63	3.20	37.51
0.0098	0.250	2.00	60	12.89	6.22	43.73
0.0070	0.177	2.50	80	12.61	6.08	49.81
0.0049	0.125	3.00	120	12.64	6.10	55.90
0.0029	0.074	3.75	200	24.15	11.65	67.55
0.0021	0.053	4.25	270	15.80	7.62	75.17
0.0015	0.037	4.75	400	19.62	9.46	84.63
PAN				31.86	15.37	100.00
TOTALS				207.34	100.00	100.00

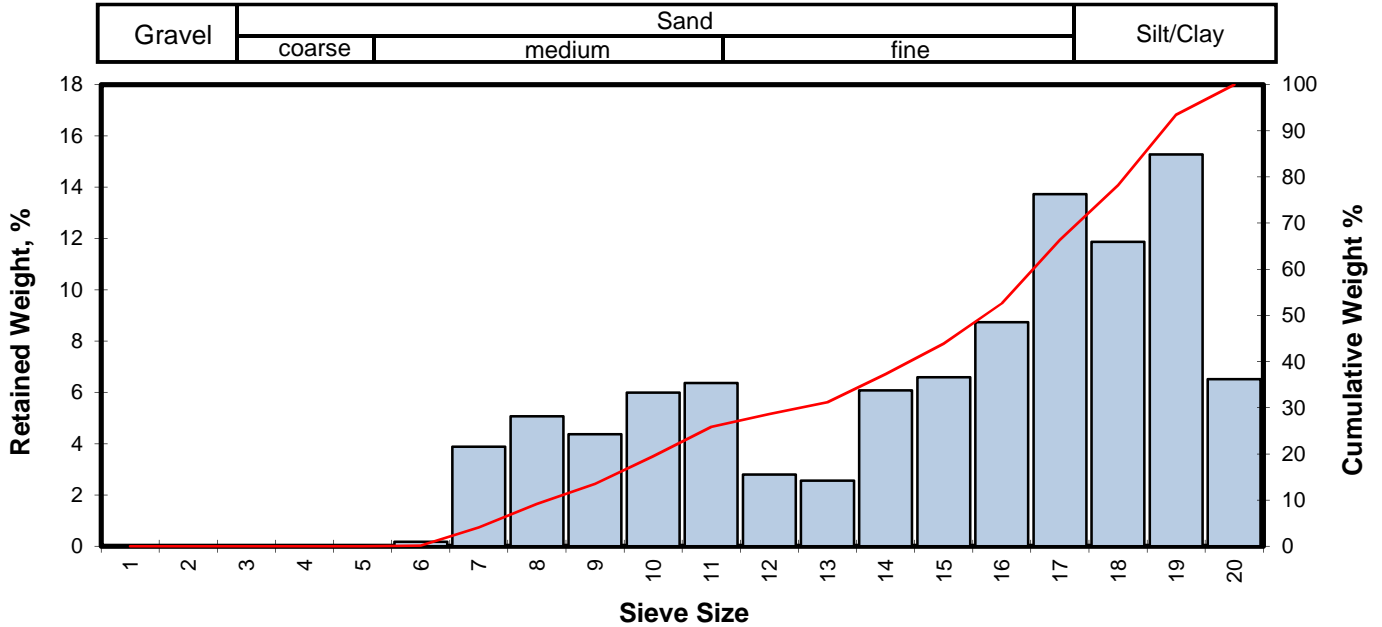
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.20	0.0903	2.294
10	-0.69	0.0636	1.614
16	-0.18	0.0446	1.132
25	0.57	0.0265	0.673
40	1.70	0.0121	0.308
50	2.52	0.0069	0.175
60	3.26	0.0041	0.104
75	4.24	0.0021	0.053
84	4.72	0.0015	0.038
90	3.09	0.0046	0.117
95	1.55	0.0135	0.343

Measure	Trask	Inman	Folk-Ward
Median, phi	2.52	2.52	2.52
Median, in.	0.0069	0.0069	0.0069
Median, mm	0.175	0.175	0.175
Mean, phi	1.46	2.27	2.35
Mean, in.	0.0143	0.0082	0.0077
Mean, mm	0.363	0.207	0.196
Sorting	3.564	2.448	1.639
Skewness	1.080	-0.101	-0.904
Kurtosis	0.207	-0.440	0.307
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.36
Coarse Sand	10	5.84
Medium Sand	40	28.11
Fine Sand	200	33.24
Silt/Clay	<200	32.45
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI12-127.0-127.3
 Depth, ft: 127.0-127.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.25	0.18	0.18
0.0787	2.000	-1.00	10	5.45	3.89	4.06
0.0557	1.414	-0.50	14	7.10	5.06	9.13
0.0394	1.000	0.00	18	6.12	4.36	13.49
0.0278	0.707	0.50	25	8.40	5.99	19.48
0.0197	0.500	1.00	35	8.92	6.36	25.84
0.0166	0.420	1.25	40	3.93	2.80	28.64
0.0139	0.354	1.50	45	3.59	2.56	31.20
0.0098	0.250	2.00	60	8.53	6.08	37.28
0.0070	0.177	2.50	80	9.25	6.59	43.88
0.0049	0.125	3.00	120	12.26	8.74	52.62
0.0029	0.074	3.75	200	19.26	13.73	66.35
0.0021	0.053	4.25	270	16.64	11.86	78.21
0.0015	0.037	4.75	400	21.42	15.27	93.48
PAN				9.14	6.52	100.00
TOTALS				140.26	100.00	100.00

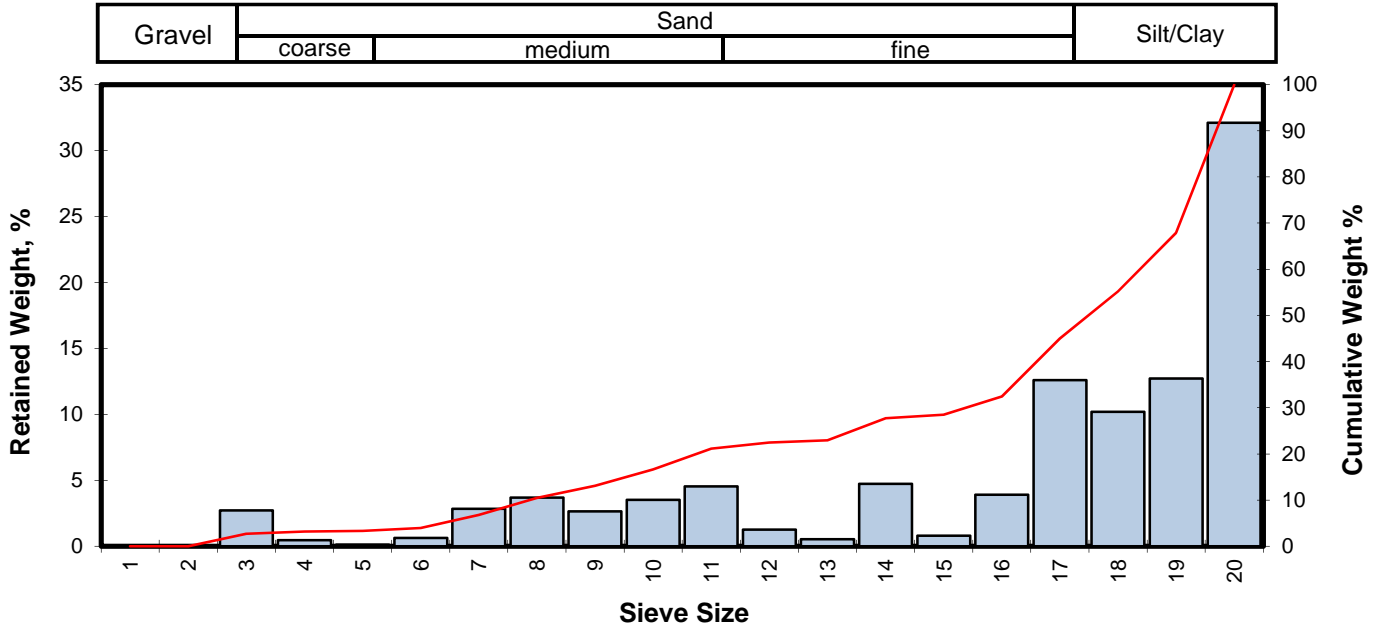
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.91	0.0739	1.876
10	-0.40	0.0519	1.319
16	0.21	0.0340	0.865
25	0.93	0.0206	0.523
40	2.21	0.0085	0.217
50	2.85	0.0055	0.139
60	3.40	0.0037	0.095
75	4.11	0.0023	0.058
84	4.44	0.0018	0.046
90	4.64	0.0016	0.040
95	3.64	0.0031	0.080

Measure	Trask	Inman	Folk-Ward
Median, phi	2.85	2.85	2.85
Median, in.	0.0055	0.0055	0.0055
Median, mm	0.139	0.139	0.139
Mean, phi	1.78	2.32	2.50
Mean, in.	0.0114	0.0079	0.0070
Mean, mm	0.291	0.200	0.177
Sorting	3.011	2.115	1.747
Skewness	1.253	-0.249	-0.450
Kurtosis	0.182	0.076	0.587
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	4.06
Medium Sand	40	24.58
Fine Sand	200	37.71
Silt/Clay	<200	33.65
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI12-145.7-146.0
 Depth, ft: 145.7-146.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	4.49	2.72	2.72
0.2500	6.351	-2.67	1/4	0.76	0.46	3.19
0.1873	4.757	-2.25	4	0.22	0.13	3.32
0.1324	3.364	-1.75	6	1.06	0.64	3.96
0.0787	2.000	-1.00	10	4.69	2.85	6.81
0.0557	1.414	-0.50	14	6.07	3.68	10.49
0.0394	1.000	0.00	18	4.35	2.64	13.13
0.0278	0.707	0.50	25	5.80	3.52	16.65
0.0197	0.500	1.00	35	7.47	4.53	21.18
0.0166	0.420	1.25	40	2.07	1.26	22.44
0.0139	0.354	1.50	45	0.89	0.54	22.98
0.0098	0.250	2.00	60	7.79	4.73	27.71
0.0070	0.177	2.50	80	1.32	0.80	28.51
0.0049	0.125	3.00	120	6.45	3.91	32.42
0.0029	0.074	3.75	200	20.74	12.58	45.01
0.0021	0.053	4.25	270	16.80	10.19	55.20
0.0015	0.037	4.75	400	20.94	12.71	67.91
			PAN	52.89	32.09	100.00
TOTALS				164.80	100.00	100.00

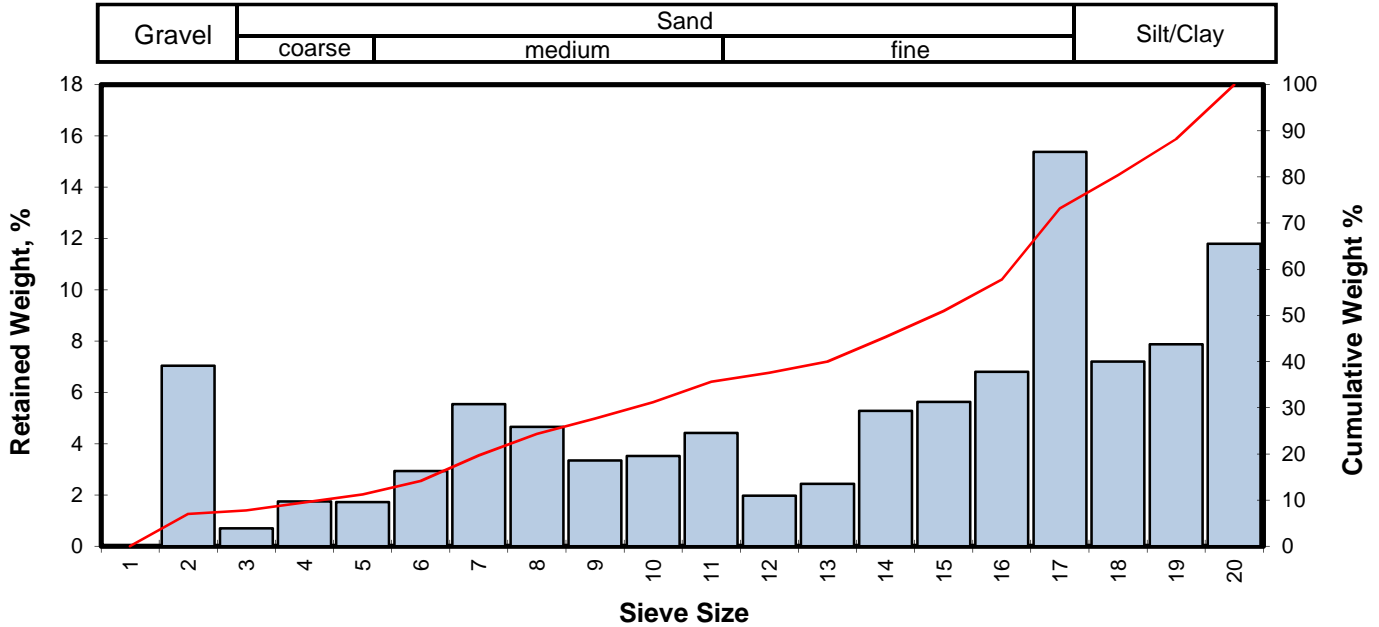
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.48	0.1096	2.783
10	-0.57	0.0583	1.481
16	0.41	0.0297	0.754
25	1.71	0.0120	0.305
40	3.45	0.0036	0.091
50	3.99	0.0025	0.063
60	4.44	0.0018	0.046
75	3.70	0.0030	0.077
84	2.37	0.0076	0.194
90	1.48	0.0141	0.358
95	0.74	0.0236	0.599

Measure	Trask	Inman	Folk-Ward
Median, phi	3.99	3.99	3.99
Median, in.	0.0025	0.0025	0.0025
Median, mm	0.063	0.063	0.063
Mean, phi	2.39	1.39	2.26
Mean, in.	0.0075	0.0150	0.0082
Mean, mm	0.191	0.382	0.209
Sorting	1.991	0.980	0.826
Skewness	2.442	-2.660	-3.298
Kurtosis	0.102	0.131	0.457
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	3.32
Coarse Sand	10	3.49
Medium Sand	40	15.63
Fine Sand	200	22.57
Silt/Clay	<200	54.99
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI13-76.3-76.8
 Depth, ft: 76.3-76.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	15.51	7.04	7.04
0.3740	9.500	-3.25	3/8	1.55	0.70	7.74
0.2500	6.351	-2.67	1/4	3.84	1.74	9.49
0.1873	4.757	-2.25	4	3.79	1.72	11.21
0.1324	3.364	-1.75	6	6.47	2.94	14.14
0.0787	2.000	-1.00	10	12.21	5.54	19.69
0.0557	1.414	-0.50	14	10.25	4.65	24.34
0.0394	1.000	0.00	18	7.38	3.35	27.69
0.0278	0.707	0.50	25	7.76	3.52	31.21
0.0197	0.500	1.00	35	9.74	4.42	35.63
0.0166	0.420	1.25	40	4.34	1.97	37.60
0.0139	0.354	1.50	45	5.35	2.43	40.03
0.0098	0.250	2.00	60	11.63	5.28	45.31
0.0070	0.177	2.50	80	12.41	5.63	50.95
0.0049	0.125	3.00	120	14.98	6.80	57.75
0.0029	0.074	3.75	200	33.86	15.37	73.12
0.0021	0.053	4.25	270	15.87	7.20	80.32
0.0015	0.037	4.75	400	17.36	7.88	88.20
PAN				25.99	11.80	100.00
TOTALS				220.29	100.00	100.00

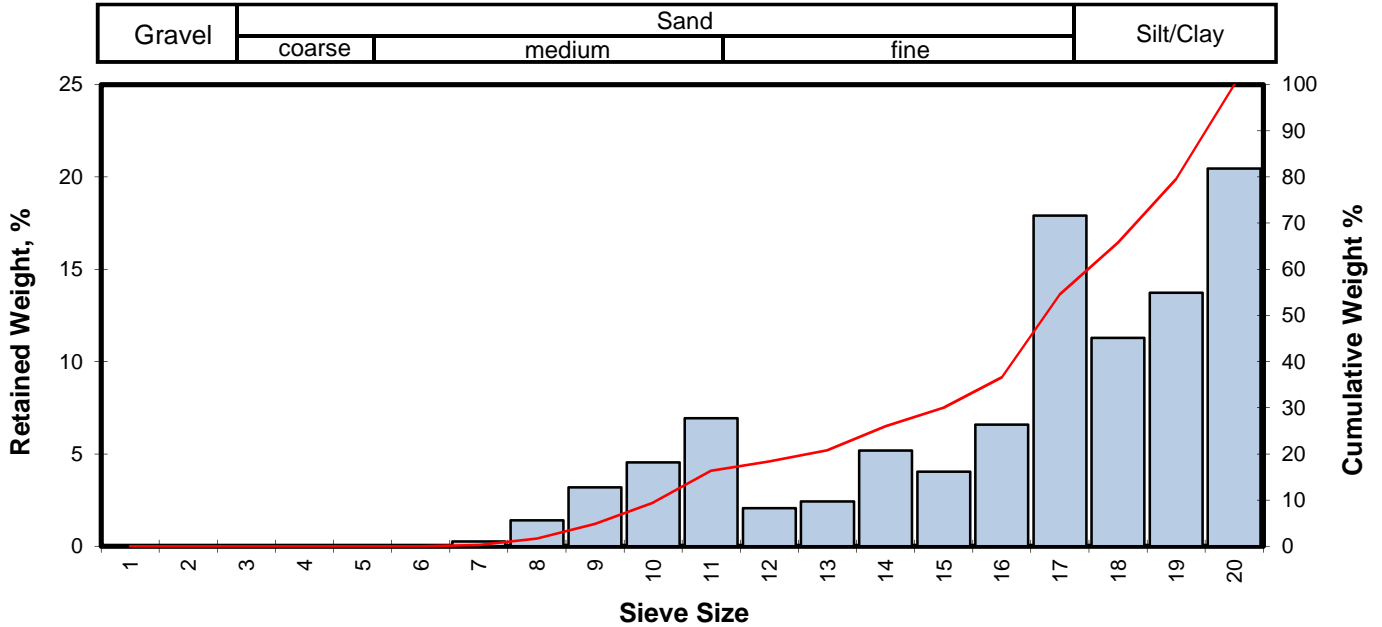
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.93	0.6017	15.283
10	-2.54	0.2294	5.827
16	-1.50	0.1113	2.826
25	-0.40	0.0520	1.321
40	1.50	0.0140	0.354
50	2.42	0.0074	0.187
60	3.11	0.0046	0.116
75	3.88	0.0027	0.068
84	4.48	0.0018	0.045
90	4.03	0.0024	0.061
95	2.01	0.0098	0.248

Measure	Trask	Inman	Folk-Ward
Median, phi	2.42	2.42	2.42
Median, in.	0.0074	0.0074	0.0074
Median, mm	0.187	0.187	0.187
Mean, phi	0.53	1.49	1.80
Mean, in.	0.0273	0.0140	0.0113
Mean, mm	0.694	0.355	0.287
Sorting	4.411	2.991	2.397
Skewness	1.598	-0.309	-0.722
Kurtosis	0.109	-0.006	0.569
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	11.21
Coarse Sand	10	8.48
Medium Sand	40	17.92
Fine Sand	200	35.51
Silt/Clay	<200	26.88
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI13-84.5-85.0
 Depth, ft: 84.5-85.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.45	0.26	0.26
0.0557	1.414	-0.50	14	2.39	1.40	1.67
0.0394	1.000	0.00	18	5.43	3.19	4.86
0.0278	0.707	0.50	25	7.74	4.55	9.41
0.0197	0.500	1.00	35	11.79	6.93	16.34
0.0166	0.420	1.25	40	3.52	2.07	18.40
0.0139	0.354	1.50	45	4.12	2.42	20.83
0.0098	0.250	2.00	60	8.82	5.18	26.01
0.0070	0.177	2.50	80	6.86	4.03	30.04
0.0049	0.125	3.00	120	11.20	6.58	36.62
0.0029	0.074	3.75	200	30.48	17.91	54.53
0.0021	0.053	4.25	270	19.21	11.29	65.82
0.0015	0.037	4.75	400	23.37	13.73	79.55
PAN				34.80	20.45	100.00
TOTALS				170.18	100.00	100.00

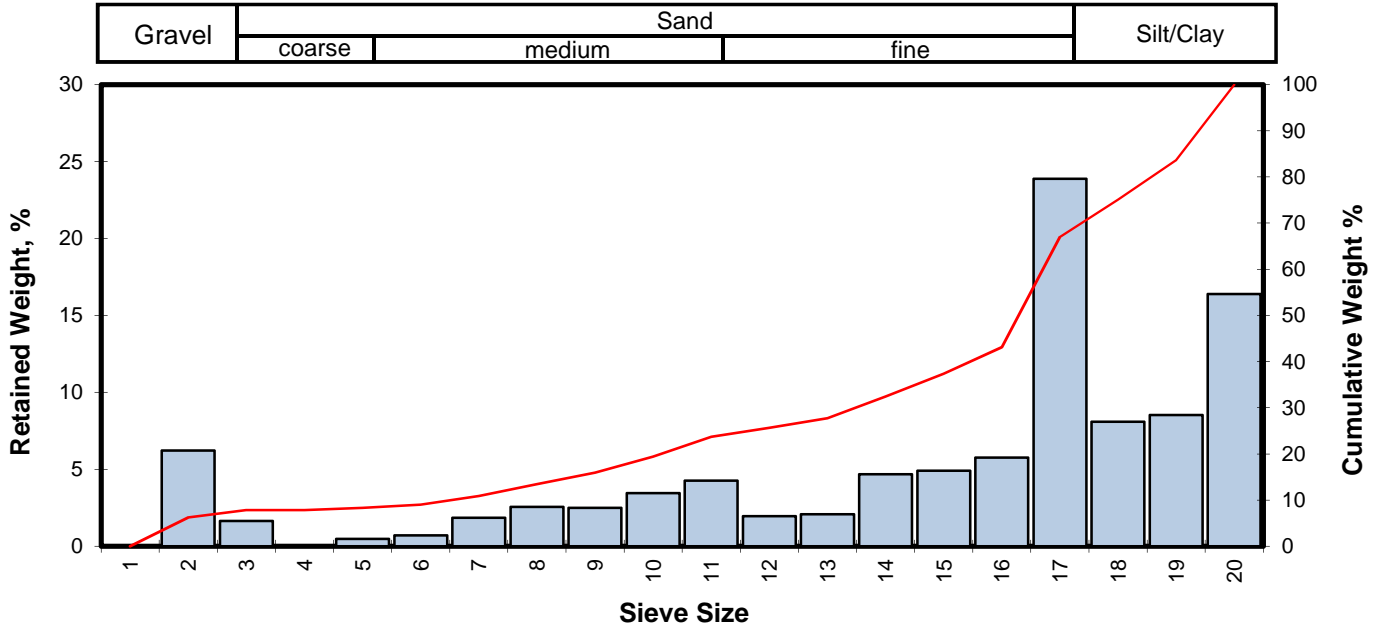
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.02	0.0390	0.989
10	0.54	0.0270	0.686
16	0.98	0.0200	0.508
25	1.90	0.0105	0.267
40	3.14	0.0045	0.113
50	3.56	0.0033	0.085
60	3.99	0.0025	0.063
75	4.58	0.0016	0.042
84	3.72	0.0030	0.076
90	2.32	0.0079	0.200
95	1.16	0.0176	0.447

Measure	Trask	Inman	Folk-Ward
Median, phi	3.56	3.56	3.56
Median, in.	0.0033	0.0033	0.0033
Median, mm	0.085	0.085	0.085
Mean, phi	2.69	2.35	2.75
Mean, in.	0.0061	0.0077	0.0058
Mean, mm	0.155	0.197	0.149
Sorting	2.533	1.370	0.859
Skewness	1.246	-0.886	-3.036
Kurtosis	0.232	-0.582	0.175
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.26
Medium Sand	40	18.14
Fine Sand	200	36.13
Silt/Clay	<200	45.47
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI13-107.0-107.7
 Depth, ft: 107.0-107.7



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	8.32	6.21	6.21
0.3740	9.500	-3.25	3/8	2.19	1.64	7.85
0.2500	6.351	-2.67	1/4	0.00	0.00	7.85
0.1873	4.757	-2.25	4	0.63	0.47	8.32
0.1324	3.364	-1.75	6	0.96	0.72	9.03
0.0787	2.000	-1.00	10	2.48	1.85	10.89
0.0557	1.414	-0.50	14	3.44	2.57	13.45
0.0394	1.000	0.00	18	3.35	2.50	15.95
0.0278	0.707	0.50	25	4.63	3.46	19.41
0.0197	0.500	1.00	35	5.72	4.27	23.68
0.0166	0.420	1.25	40	2.63	1.96	25.65
0.0139	0.354	1.50	45	2.80	2.09	27.74
0.0098	0.250	2.00	60	6.27	4.68	32.42
0.0070	0.177	2.50	80	6.59	4.92	37.34
0.0049	0.125	3.00	120	7.73	5.77	43.11
0.0029	0.074	3.75	200	31.99	23.88	66.99
0.0021	0.053	4.25	270	10.84	8.09	75.09
0.0015	0.037	4.75	400	11.42	8.53	83.61
PAN				21.95	16.39	100.00
TOTALS				133.94	100.00	100.00

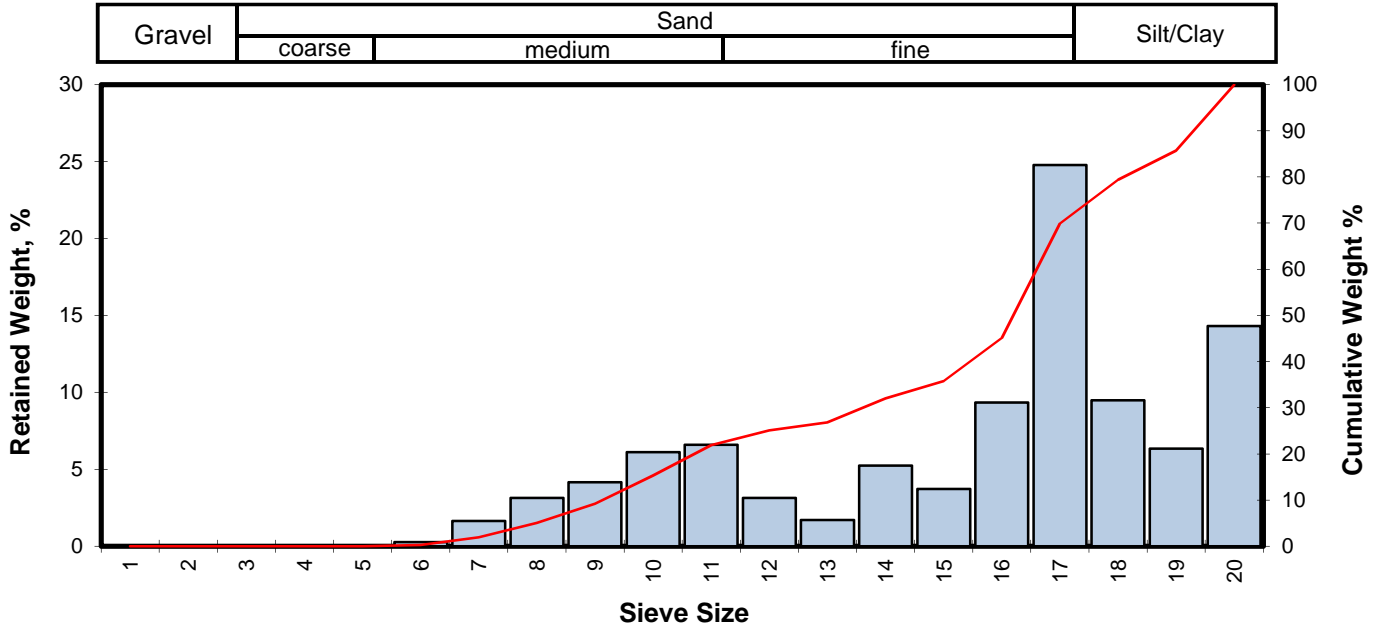
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.84	0.5634	14.311
10	-1.36	0.1010	2.564
16	0.01	0.0392	0.995
25	1.17	0.0175	0.445
40	2.73	0.0059	0.151
50	3.22	0.0042	0.108
60	3.53	0.0034	0.087
75	4.24	0.0021	0.053
84	4.64	0.0016	0.040
90	2.90	0.0053	0.134
95	1.45	0.0144	0.366

Measure	Trask	Inman	Folk-Ward
Median, phi	3.22	3.22	3.22
Median, in.	0.0042	0.0042	0.0042
Median, mm	0.108	0.108	0.108
Mean, phi	2.01	2.32	2.62
Mean, in.	0.0098	0.0079	0.0064
Mean, mm	0.249	0.200	0.163
Sorting	2.905	2.316	1.959
Skewness	1.424	-0.386	-1.027
Kurtosis	0.081	0.142	0.704
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	8.32
Coarse Sand	10	2.57
Medium Sand	40	14.76
Fine Sand	200	41.35
Silt/Clay	<200	33.01
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI13-117.5-118.0
 Depth, ft: 117.5-118.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.32	0.28	0.28
0.0787	2.000	-1.00	10	1.88	1.64	1.91
0.0557	1.414	-0.50	14	3.62	3.15	5.07
0.0394	1.000	0.00	18	4.79	4.17	9.23
0.0278	0.707	0.50	25	7.02	6.11	15.35
0.0197	0.500	1.00	35	7.58	6.60	21.94
0.0166	0.420	1.25	40	3.61	3.14	25.08
0.0139	0.354	1.50	45	1.97	1.71	26.80
0.0098	0.250	2.00	60	6.02	5.24	32.04
0.0070	0.177	2.50	80	4.28	3.73	35.76
0.0049	0.125	3.00	120	10.74	9.35	45.11
0.0029	0.074	3.75	200	28.45	24.76	69.88
0.0021	0.053	4.25	270	10.90	9.49	79.36
0.0015	0.037	4.75	400	7.28	6.34	85.70
PAN				16.43	14.30	100.00
TOTALS				114.89	100.00	100.00

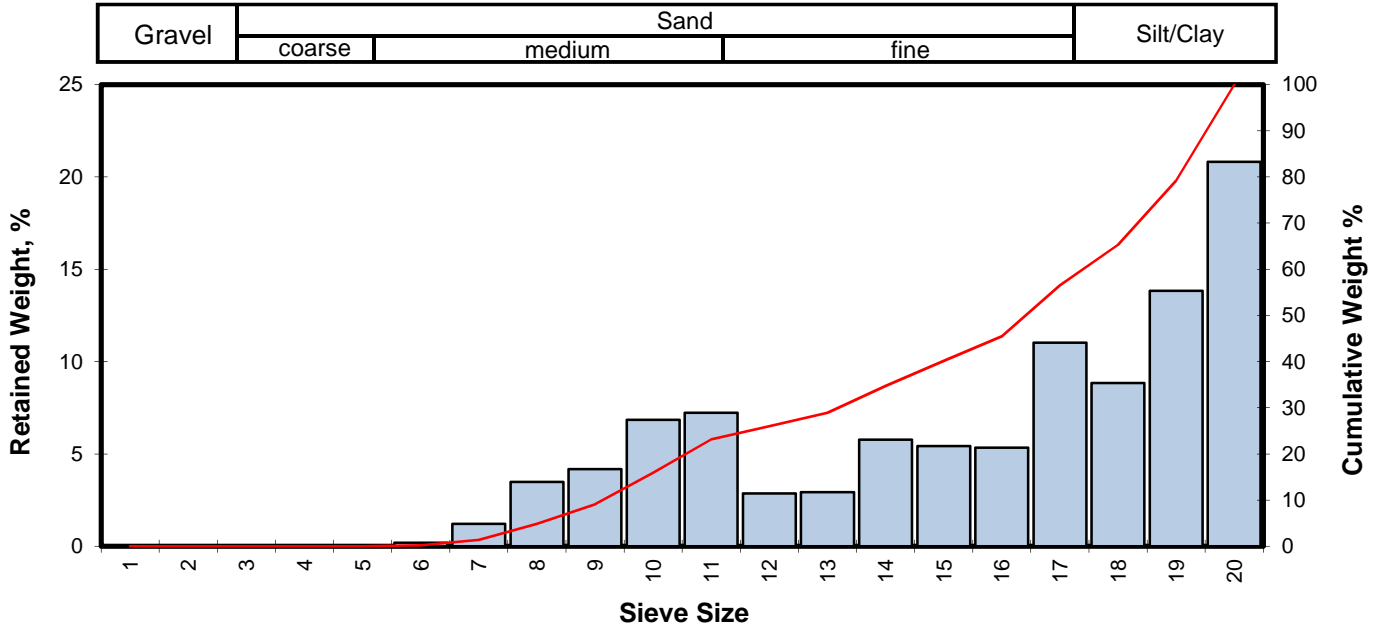
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.51	0.0561	1.424
10	0.06	0.0377	0.958
16	0.55	0.0269	0.683
25	1.24	0.0166	0.422
40	2.73	0.0059	0.151
50	3.15	0.0044	0.113
60	3.45	0.0036	0.091
75	4.02	0.0024	0.062
84	4.62	0.0016	0.041
90	3.32	0.0039	0.100
95	1.66	0.0125	0.316

Measure	Trask	Inman	Folk-Ward
Median, phi	3.15	3.15	3.15
Median, in.	0.0044	0.0044	0.0044
Median, mm	0.113	0.113	0.113
Mean, phi	2.05	2.58	2.77
Mean, in.	0.0095	0.0066	0.0058
Mean, mm	0.242	0.167	0.146
Sorting	2.618	2.033	1.346
Skewness	1.430	-0.278	-1.324
Kurtosis	0.210	-0.466	0.320
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	1.91
Medium Sand	40	23.17
Fine Sand	200	44.79
Silt/Clay	<200	30.12
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI13-142.4-143.0
 Depth, ft: 142.4-143.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.26	0.19	0.19
0.0787	2.000	-1.00	10	1.70	1.22	1.41
0.0557	1.414	-0.50	14	4.85	3.48	4.88
0.0394	1.000	0.00	18	5.83	4.18	9.06
0.0278	0.707	0.50	25	9.56	6.85	15.91
0.0197	0.500	1.00	35	10.08	7.23	23.14
0.0166	0.420	1.25	40	3.99	2.86	26.00
0.0139	0.354	1.50	45	4.09	2.93	28.93
0.0098	0.250	2.00	60	8.06	5.78	34.71
0.0070	0.177	2.50	80	7.57	5.43	40.14
0.0049	0.125	3.00	120	7.45	5.34	45.48
0.0029	0.074	3.75	200	15.37	11.02	56.49
0.0021	0.053	4.25	270	12.34	8.85	65.34
0.0015	0.037	4.75	400	19.30	13.84	79.18
			PAN	29.05	20.82	100.00
TOTALS				139.50	100.00	100.00

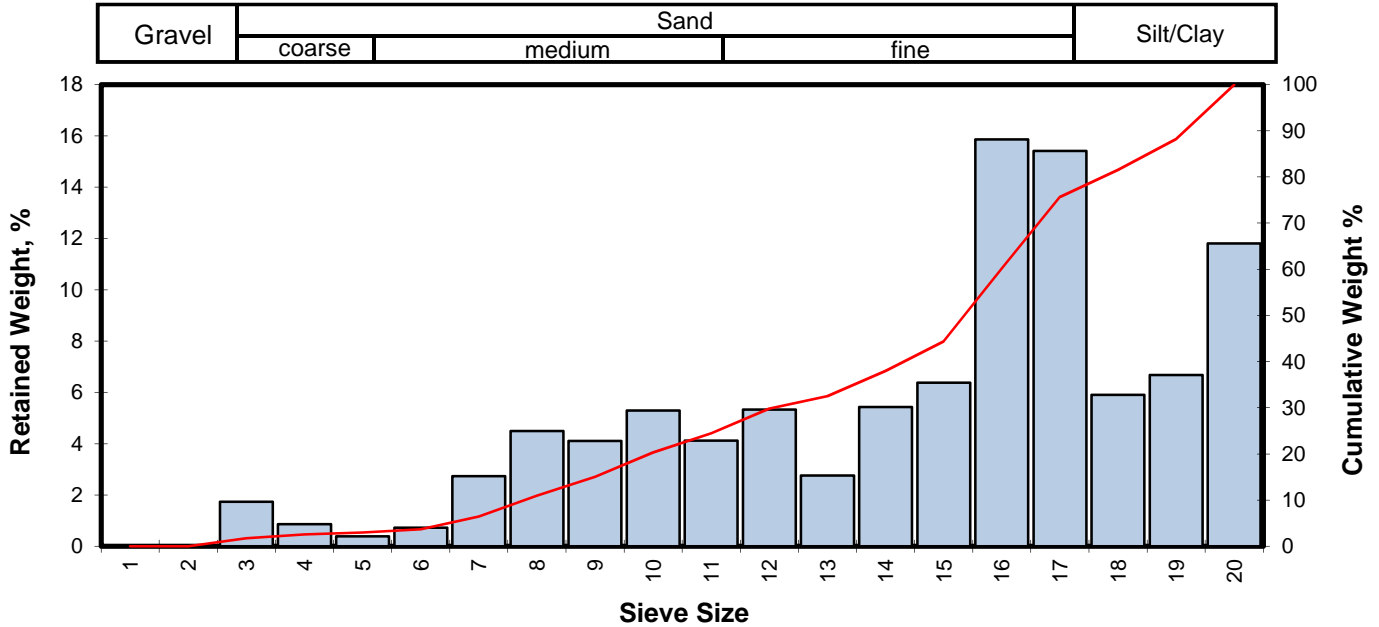
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.49	0.0551	1.400
10	0.07	0.0375	0.954
16	0.51	0.0277	0.704
25	1.16	0.0176	0.447
40	2.49	0.0070	0.178
50	3.31	0.0040	0.101
60	3.95	0.0026	0.065
75	4.60	0.0016	0.041
84	3.65	0.0031	0.080
90	2.28	0.0081	0.206
95	1.14	0.0179	0.454

Measure	Trask	Inman	Folk-Ward
Median, phi	3.31	3.31	3.31
Median, in.	0.0040	0.0040	0.0040
Median, mm	0.101	0.101	0.101
Mean, phi	2.04	2.08	2.49
Mean, in.	0.0096	0.0093	0.0070
Mean, mm	0.244	0.237	0.178
Sorting	3.290	1.572	1.032
Skewness	1.344	-0.783	-2.224
Kurtosis	0.271	-0.483	0.194
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	1.41
Medium Sand	40	24.59
Fine Sand	200	30.49
Silt/Clay	<200	43.51
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI27-46.0-46.3
 Depth, ft: 46.0-46.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	3.86	1.73	1.73
0.2500	6.351	-2.67	1/4	1.93	0.87	2.60
0.1873	4.757	-2.25	4	0.85	0.38	2.98
0.1324	3.364	-1.75	6	1.61	0.72	3.71
0.0787	2.000	-1.00	10	6.08	2.73	6.44
0.0557	1.414	-0.50	14	10.01	4.50	10.94
0.0394	1.000	0.00	18	9.13	4.10	15.04
0.0278	0.707	0.50	25	11.78	5.29	20.33
0.0197	0.500	1.00	35	9.16	4.12	24.45
0.0166	0.420	1.25	40	11.87	5.33	29.78
0.0139	0.354	1.50	45	6.13	2.75	32.54
0.0098	0.250	2.00	60	12.09	5.43	37.97
0.0070	0.177	2.50	80	14.18	6.37	44.34
0.0049	0.125	3.00	120	35.29	15.86	60.20
0.0029	0.074	3.75	200	34.31	15.42	75.62
0.0021	0.053	4.25	270	13.13	5.90	81.52
0.0015	0.037	4.75	400	14.86	6.68	88.20
PAN				26.26	11.80	100.00
TOTALS				222.53	100.00	100.00

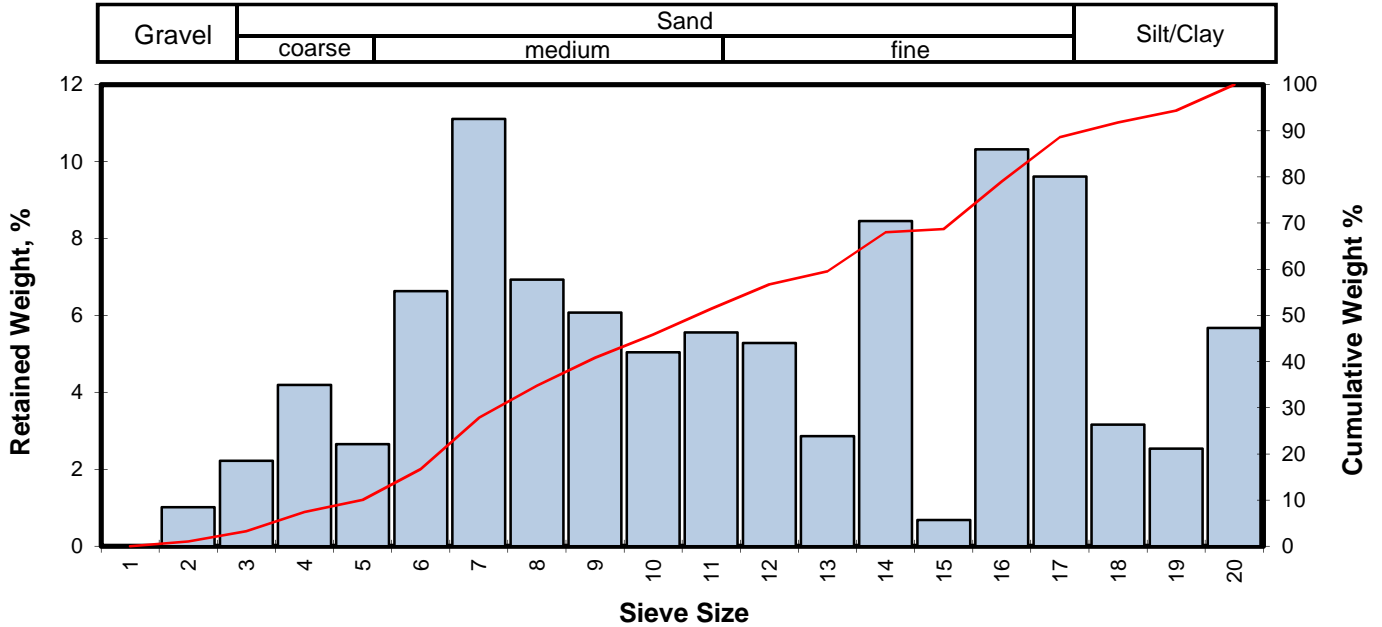
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.40	0.1036	2.630
10	-0.60	0.0598	1.520
16	0.09	0.0370	0.939
25	1.03	0.0193	0.491
40	2.16	0.0088	0.224
50	2.68	0.0062	0.156
60	2.99	0.0049	0.126
75	3.72	0.0030	0.076
84	4.44	0.0018	0.046
90	4.03	0.0024	0.061
95	2.01	0.0098	0.248

Measure	Trask	Inman	Folk-Ward
Median, phi	2.68	2.68	2.68
Median, in.	0.0062	0.0062	0.0062
Median, mm	0.156	0.156	0.156
Mean, phi	1.82	2.26	2.40
Mean, in.	0.0112	0.0082	0.0075
Mean, mm	0.284	0.208	0.189
Sorting	2.544	2.172	1.603
Skewness	1.236	-0.191	-0.791
Kurtosis	0.142	-0.216	0.518
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	2.98
Coarse Sand	10	3.46
Medium Sand	40	23.35
Fine Sand	200	45.84
Silt/Clay	<200	24.38
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI27-60.5-60.8
 Depth, ft: 60.5-60.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	2.14	1.01	1.01
0.3740	9.500	-3.25	3/8	4.69	2.22	3.23
0.2500	6.351	-2.67	1/4	8.86	4.19	7.43
0.1873	4.757	-2.25	4	5.60	2.65	10.08
0.1324	3.364	-1.75	6	14.00	6.63	16.70
0.0787	2.000	-1.00	10	23.46	11.10	27.81
0.0557	1.414	-0.50	14	14.64	6.93	34.74
0.0394	1.000	0.00	18	12.83	6.07	40.81
0.0278	0.707	0.50	25	10.66	5.05	45.86
0.0197	0.500	1.00	35	11.75	5.56	51.42
0.0166	0.420	1.25	40	11.16	5.28	56.70
0.0139	0.354	1.50	45	6.05	2.86	59.57
0.0098	0.250	2.00	60	17.85	8.45	68.02
0.0070	0.177	2.50	80	1.45	0.69	68.70
0.0049	0.125	3.00	120	21.80	10.32	79.02
0.0029	0.074	3.75	200	20.30	9.61	88.63
0.0021	0.053	4.25	270	6.68	3.16	91.79
0.0015	0.037	4.75	400	5.36	2.54	94.33
			PAN	11.98	5.67	100.00
TOTALS				211.26	100.00	100.00

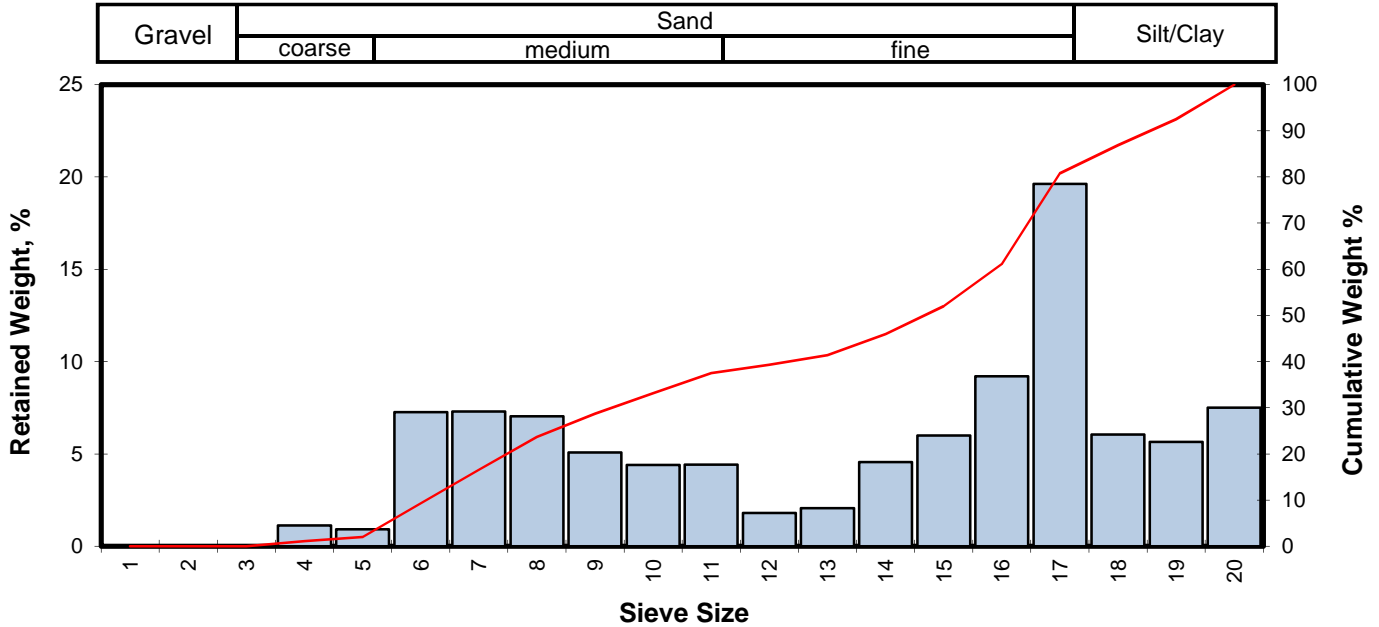
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.00	0.3157	8.018
10	-2.26	0.1889	4.797
16	-1.80	0.1374	3.490
25	-1.19	0.0898	2.281
40	-0.07	0.0412	1.047
50	0.87	0.0215	0.546
60	1.53	0.0137	0.347
75	2.81	0.0056	0.143
84	3.39	0.0038	0.095
90	3.97	0.0025	0.064
95	4.19	0.0022	0.055

Measure	Trask	Inman	Folk-Ward
Median, phi	0.87	0.87	0.87
Median, in.	0.0215	0.0215	0.0215
Median, mm	0.546	0.546	0.546
Mean, phi	-0.28	0.79	0.82
Mean, in.	0.0477	0.0227	0.0223
Mean, mm	1.212	0.577	0.567
Sorting	3.993	2.596	2.388
Skewness	1.046	-0.031	-0.054
Kurtosis	0.226	0.385	0.738
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	10.08
Coarse Sand	10	17.73
Medium Sand	40	28.89
Fine Sand	200	31.93
Silt/Clay	<200	11.37
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI27-74.0-74.3
 Depth, ft: 74.0-74.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	2.77	1.12	1.12
0.1873	4.757	-2.25	4	2.28	0.93	2.05
0.1324	3.364	-1.75	6	17.89	7.26	9.31
0.0787	2.000	-1.00	10	17.97	7.29	16.60
0.0557	1.414	-0.50	14	17.33	7.03	23.64
0.0394	1.000	0.00	18	12.50	5.07	28.71
0.0278	0.707	0.50	25	10.86	4.41	33.12
0.0197	0.500	1.00	35	10.90	4.42	37.54
0.0166	0.420	1.25	40	4.43	1.80	39.34
0.0139	0.354	1.50	45	5.09	2.07	41.41
0.0098	0.250	2.00	60	11.23	4.56	45.97
0.0070	0.177	2.50	80	14.79	6.00	51.97
0.0049	0.125	3.00	120	22.69	9.21	61.18
0.0029	0.074	3.75	200	48.33	19.62	80.79
0.0021	0.053	4.25	270	14.91	6.05	86.85
0.0015	0.037	4.75	400	13.91	5.65	92.49
PAN				18.50	7.51	100.00
TOTALS				246.38	100.00	100.00

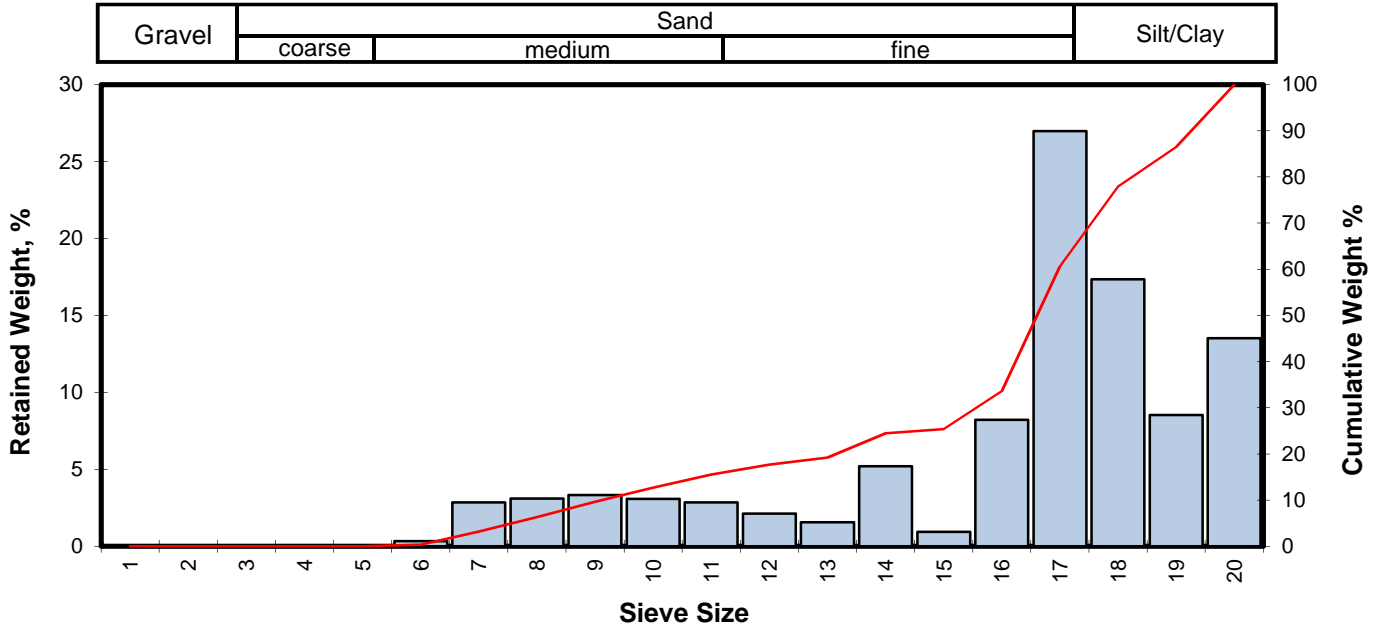
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.05	0.1627	4.132
10	-1.68	0.1261	3.202
16	-1.06	0.0822	2.088
25	-0.37	0.0507	1.289
40	1.33	0.0157	0.398
50	2.34	0.0078	0.198
60	2.94	0.0051	0.131
75	3.53	0.0034	0.087
84	4.01	0.0024	0.062
90	4.53	0.0017	0.043
95	3.16	0.0044	0.112

Measure	Trask	Inman	Folk-Ward
Median, phi	2.34	2.34	2.34
Median, in.	0.0078	0.0078	0.0078
Median, mm	0.198	0.198	0.198
Mean, phi	0.54	1.48	1.76
Mean, in.	0.0271	0.0141	0.0116
Mean, mm	0.688	0.359	0.295
Sorting	3.856	2.539	2.059
Skewness	1.687	-0.339	-0.511
Kurtosis	0.190	0.026	0.548
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	2.05
Coarse Sand	10	14.55
Medium Sand	40	22.74
Fine Sand	200	41.45
Silt/Clay	<200	19.21
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-RI27-97.5-97.8
 Depth, ft: 97.5-97.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.98	0.33	0.33
0.0787	2.000	-1.00	10	8.41	2.86	3.19
0.0557	1.414	-0.50	14	9.12	3.10	6.30
0.0394	1.000	0.00	18	9.76	3.32	9.62
0.0278	0.707	0.50	25	9.05	3.08	12.69
0.0197	0.500	1.00	35	8.39	2.85	15.55
0.0166	0.420	1.25	40	6.25	2.13	17.67
0.0139	0.354	1.50	45	4.60	1.56	19.24
0.0098	0.250	2.00	60	15.32	5.21	24.45
0.0070	0.177	2.50	80	2.76	0.94	25.39
0.0049	0.125	3.00	120	24.15	8.21	33.60
0.0029	0.074	3.75	200	79.34	26.99	60.59
0.0021	0.053	4.25	270	51.00	17.35	77.93
0.0015	0.037	4.75	400	25.10	8.54	86.47
PAN				39.78	13.53	100.00
TOTALS				294.01	100.00	100.00

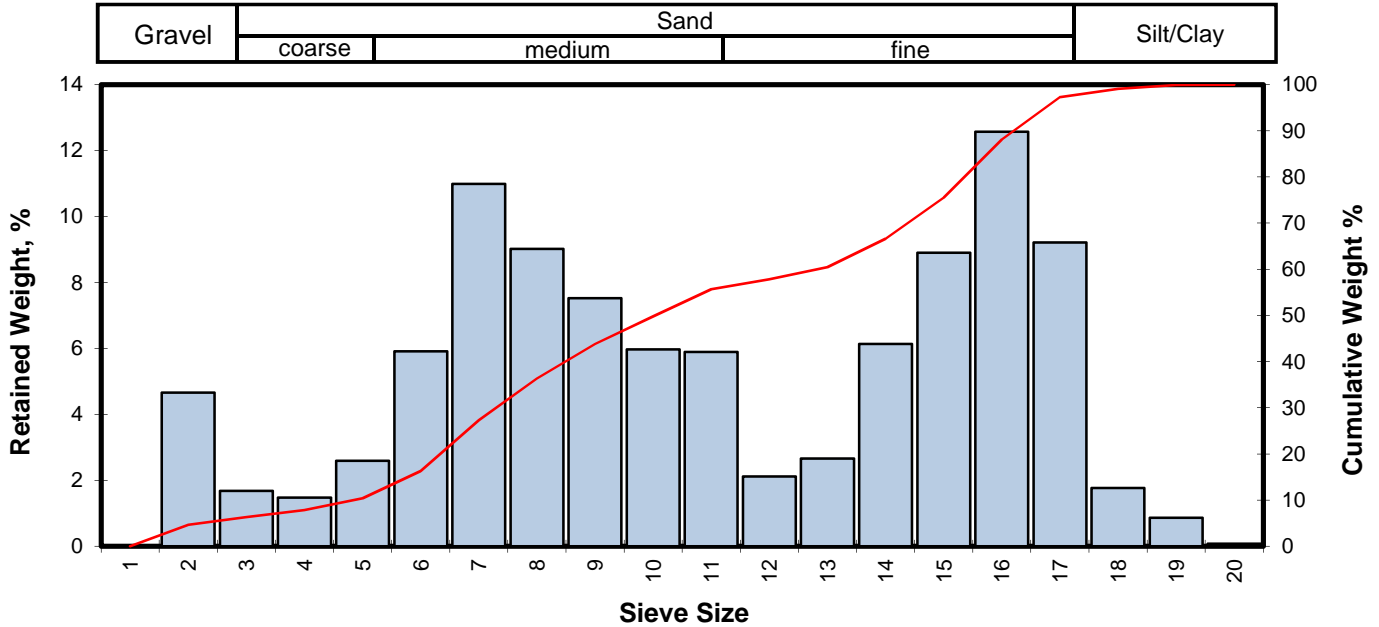
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.71	0.0644	1.635
10	0.06	0.0377	0.958
16	1.05	0.0190	0.482
25	2.29	0.0080	0.204
40	3.18	0.0044	0.111
50	3.46	0.0036	0.091
60	3.73	0.0030	0.075
75	4.17	0.0022	0.056
84	4.61	0.0016	0.041
90	3.51	0.0035	0.088
95	1.76	0.0117	0.296

Measure	Trask	Inman	Folk-Ward
Median, phi	3.46	3.46	3.46
Median, in.	0.0036	0.0036	0.0036
Median, mm	0.091	0.091	0.091
Mean, phi	2.95	2.83	3.04
Mean, in.	0.0051	0.0055	0.0048
Mean, mm	0.130	0.141	0.122
Sorting	1.913	1.776	1.261
Skewness	1.170	-0.353	-1.366
Kurtosis	0.085	-0.306	0.540
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	3.19
Medium Sand	40	14.48
Fine Sand	200	42.91
Silt/Clay	<200	39.41
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-23.0-23.3
 Depth, ft: 23.0-23.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	14.11	4.66	4.66
0.3740	9.500	-3.25	3/8	5.08	1.68	6.33
0.2500	6.351	-2.67	1/4	4.47	1.48	7.81
0.1873	4.757	-2.25	4	7.85	2.59	10.40
0.1324	3.364	-1.75	6	17.92	5.91	16.31
0.0787	2.000	-1.00	10	33.29	10.99	27.30
0.0557	1.414	-0.50	14	27.33	9.02	36.32
0.0394	1.000	0.00	18	22.79	7.52	43.84
0.0278	0.707	0.50	25	18.08	5.97	49.81
0.0197	0.500	1.00	35	17.86	5.89	55.70
0.0166	0.420	1.25	40	6.42	2.12	57.82
0.0139	0.354	1.50	45	8.06	2.66	60.48
0.0098	0.250	2.00	60	18.59	6.14	66.62
0.0070	0.177	2.50	80	26.96	8.90	75.51
0.0049	0.125	3.00	120	38.09	12.57	88.09
0.0029	0.074	3.75	200	27.91	9.21	97.30
0.0021	0.053	4.25	270	5.35	1.77	99.06
0.0015	0.037	4.75	400	2.61	0.86	99.92
			PAN	0.23	0.08	100.00
TOTALS				303.00	100.00	100.00

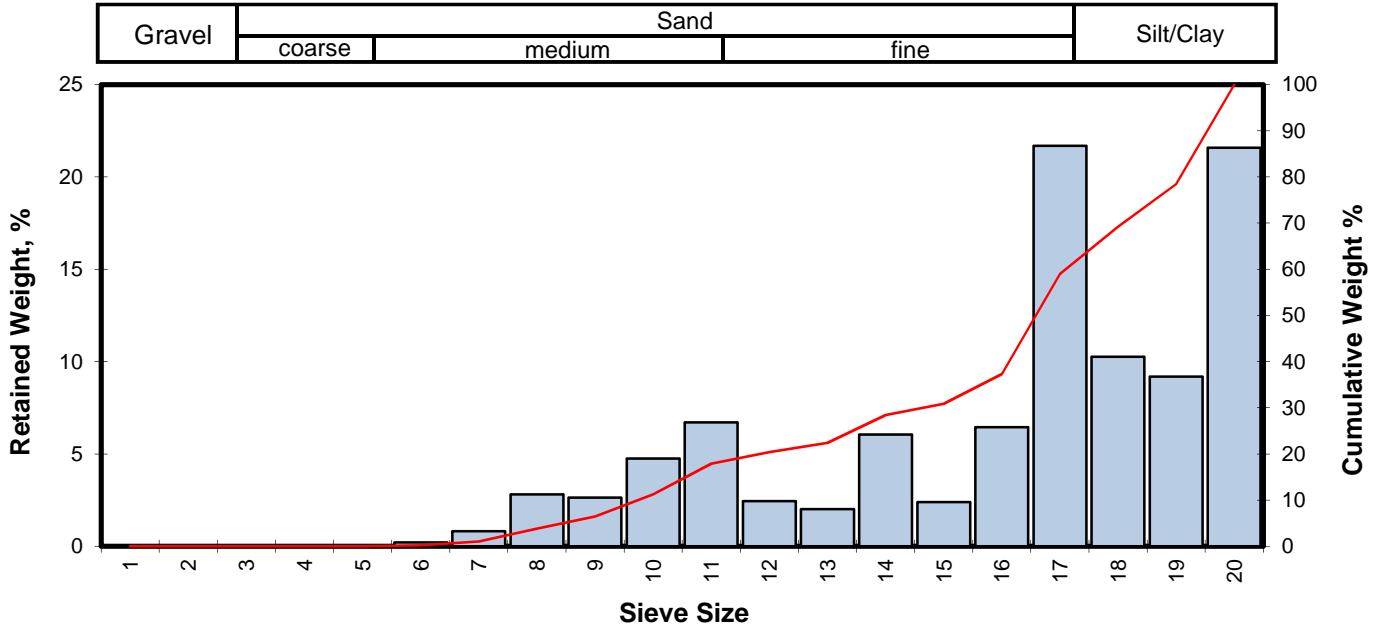
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.56	0.4653	11.818
10	-2.31	0.1958	4.974
16	-1.78	0.1349	3.426
25	-1.16	0.0878	2.230
40	-0.26	0.0470	1.194
50	0.52	0.0275	0.699
60	1.45	0.0144	0.365
75	2.47	0.0071	0.180
84	2.84	0.0055	0.140
90	3.16	0.0044	0.112
95	3.56	0.0033	0.085

Measure	Trask	Inman	Folk-Ward
Median, phi	0.52	0.52	0.52
Median, in.	0.0275	0.0275	0.0275
Median, mm	0.699	0.699	0.699
Mean, phi	-0.27	0.53	0.53
Mean, in.	0.0474	0.0273	0.0273
Mean, mm	1.205	0.692	0.695
Sorting	3.516	2.307	2.233
Skewness	0.907	0.006	-0.069
Kurtosis	0.211	0.544	0.805
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	10.40
Coarse Sand	10	16.90
Medium Sand	40	30.52
Fine Sand	200	39.48
Silt/Clay	<200	2.70
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-31.0-31.3
 Depth, ft: 31.0-31.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.29	0.21	0.21
0.0787	2.000	-1.00	10	1.13	0.81	1.02
0.0557	1.414	-0.50	14	3.91	2.81	3.82
0.0394	1.000	0.00	18	3.68	2.64	6.47
0.0278	0.707	0.50	25	6.61	4.74	11.21
0.0197	0.500	1.00	35	9.34	6.70	17.91
0.0166	0.420	1.25	40	3.41	2.45	20.36
0.0139	0.354	1.50	45	2.81	2.02	22.38
0.0098	0.250	2.00	60	8.44	6.06	28.43
0.0070	0.177	2.50	80	3.34	2.40	30.83
0.0049	0.125	3.00	120	8.98	6.44	37.27
0.0029	0.074	3.75	200	30.22	21.69	58.96
0.0021	0.053	4.25	270	14.30	10.26	69.22
0.0015	0.037	4.75	400	12.81	9.19	78.41
PAN				30.08	21.59	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.28	0.0477	1.212
10	0.37	0.0304	0.772
16	0.86	0.0217	0.552
25	1.72	0.0120	0.304
40	3.09	0.0046	0.117
50	3.44	0.0036	0.092
60	3.80	0.0028	0.072
75	4.56	0.0017	0.042
84	3.52	0.0034	0.087
90	2.20	0.0086	0.218
95	1.10	0.0184	0.466

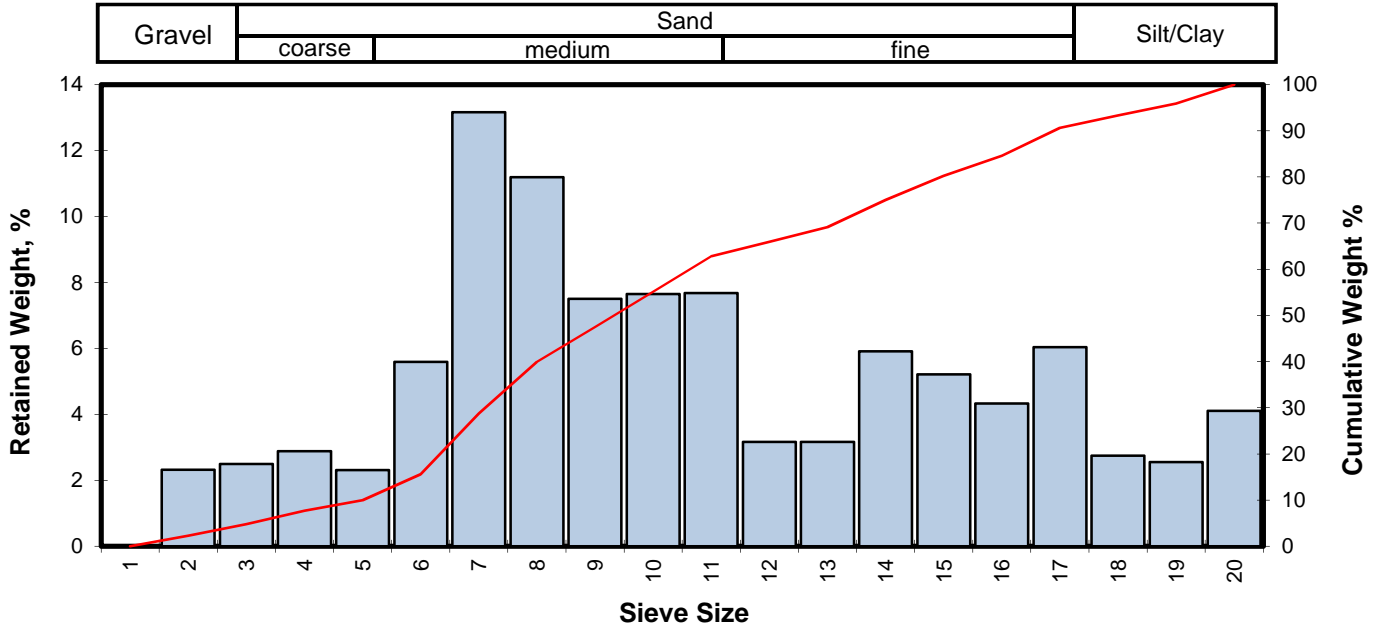
Measure	Trask	Inman	Folk-Ward
Median, phi	3.44	3.44	3.44
Median, in.	0.0036	0.0036	0.0036
Median, mm	0.092	0.092	0.092
Mean, phi	2.53	2.19	2.61
Mean, in.	0.0068	0.0086	0.0065
Mean, mm	0.173	0.219	0.164
Sorting	2.683	1.332	0.875
Skewness	1.231	-0.939	-2.668
Kurtosis	0.236	-0.483	0.198
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	1.02
Medium Sand	40	19.34
Fine Sand	200	38.60
Silt/Clay	<200	41.04
TOTALS		100

TOTALS	139.35	100.00	100.00
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Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-38.5-38.8
 Depth, ft: 38.5-38.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	6.00	2.32	2.32
0.3740	9.500	-3.25	3/8	6.46	2.50	4.82
0.2500	6.351	-2.67	1/4	7.46	2.89	7.71
0.1873	4.757	-2.25	4	5.96	2.31	10.01
0.1324	3.364	-1.75	6	14.44	5.59	15.60
0.0787	2.000	-1.00	10	34.02	13.16	28.77
0.0557	1.414	-0.50	14	28.93	11.19	39.96
0.0394	1.000	0.00	18	19.38	7.50	47.46
0.0278	0.707	0.50	25	19.76	7.65	55.11
0.0197	0.500	1.00	35	19.84	7.68	62.78
0.0166	0.420	1.25	40	8.17	3.16	65.94
0.0139	0.354	1.50	45	8.18	3.17	69.11
0.0098	0.250	2.00	60	15.27	5.91	75.02
0.0070	0.177	2.50	80	13.47	5.21	80.23
0.0049	0.125	3.00	120	11.18	4.33	84.56
0.0029	0.074	3.75	200	15.60	6.04	90.59
0.0021	0.053	4.25	270	7.11	2.75	93.34
0.0015	0.037	4.75	400	6.60	2.55	95.90
PAN				10.60	4.10	100.00
TOTALS				258.43	100.00	100.00

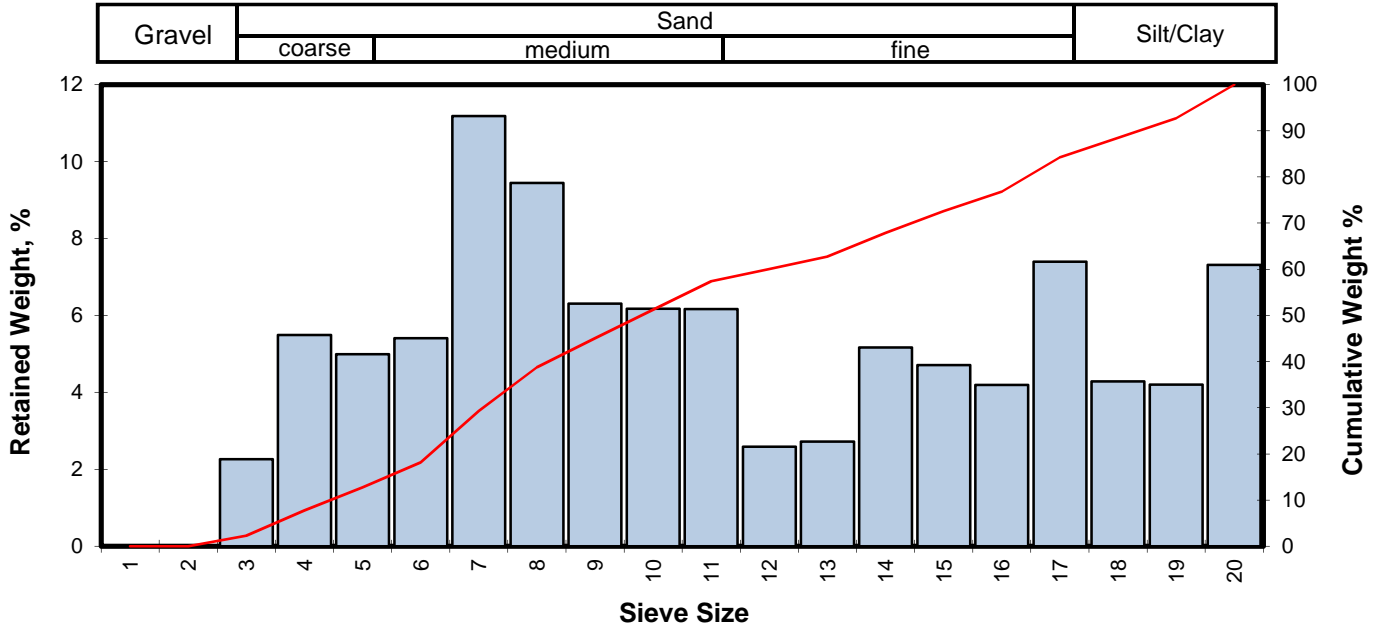
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.21	0.3648	9.267
10	-2.25	0.1876	4.765
16	-1.73	0.1304	3.311
25	-1.21	0.0914	2.321
40	-0.50	0.0556	1.412
50	0.17	0.0351	0.891
60	0.82	0.0223	0.567
75	2.00	0.0099	0.250
84	2.94	0.0051	0.131
90	3.68	0.0031	0.078
95	4.57	0.0017	0.042

Measure	Trask	Inman	Folk-Ward
Median, phi	0.17	0.17	0.17
Median, in.	0.0351	0.0351	0.0351
Median, mm	0.891	0.891	0.891
Mean, phi	-0.36	0.60	0.46
Mean, in.	0.0506	0.0259	0.0287
Mean, mm	1.285	0.658	0.728
Sorting	3.045	2.331	2.345
Skewness	0.855	0.188	0.160
Kurtosis	0.221	0.670	0.993
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	10.01
Coarse Sand	10	18.75
Medium Sand	40	37.18
Fine Sand	200	24.65
Silt/Clay	<200	9.41
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-41.2-41.5
 Depth, ft: 41.2-41.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	5.20	2.26	2.26
0.2500	6.351	-2.67	1/4	12.61	5.49	7.75
0.1873	4.757	-2.25	4	11.47	4.99	12.74
0.1324	3.364	-1.75	6	12.43	5.41	18.15
0.0787	2.000	-1.00	10	25.69	11.18	29.33
0.0557	1.414	-0.50	14	21.70	9.44	38.78
0.0394	1.000	0.00	18	14.49	6.31	45.08
0.0278	0.707	0.50	25	14.19	6.18	51.26
0.0197	0.500	1.00	35	14.17	6.17	57.42
0.0166	0.420	1.25	40	5.95	2.59	60.01
0.0139	0.354	1.50	45	6.25	2.72	62.73
0.0098	0.250	2.00	60	11.87	5.17	67.90
0.0070	0.177	2.50	80	10.82	4.71	72.61
0.0049	0.125	3.00	120	9.64	4.20	76.80
0.0029	0.074	3.75	200	17.00	7.40	84.20
0.0021	0.053	4.25	270	9.85	4.29	88.49
0.0015	0.037	4.75	400	9.65	4.20	92.69
PAN				16.80	7.31	100.00
TOTALS				229.78	100.00	100.00

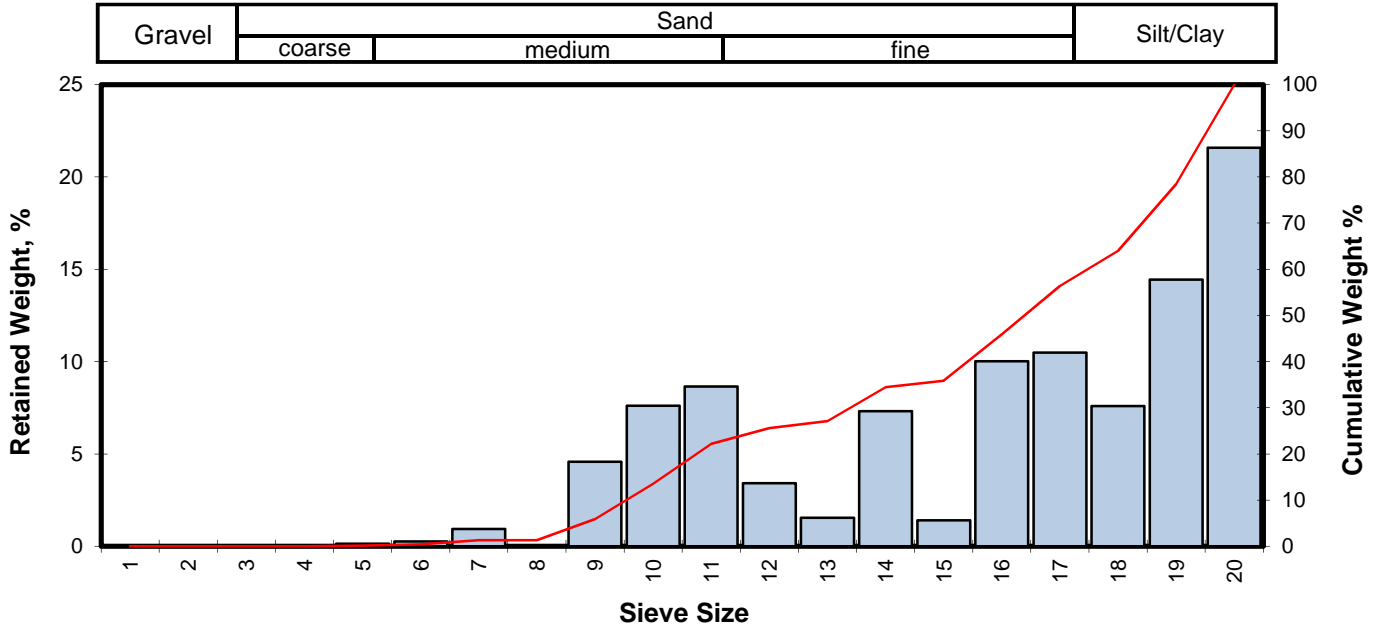
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.96	0.3060	7.772
10	-2.48	0.2195	5.576
16	-1.95	0.1520	3.861
25	-1.29	0.0963	2.446
40	-0.40	0.0521	1.322
50	0.40	0.0299	0.759
60	1.25	0.0166	0.421
75	2.79	0.0057	0.145
84	3.73	0.0030	0.075
90	4.43	0.0018	0.046
95	3.25	0.0041	0.105

Measure	Trask	Inman	Folk-Ward
Median, phi	0.40	0.40	0.40
Median, in.	0.0299	0.0299	0.0299
Median, mm	0.759	0.759	0.759
Mean, phi	-0.37	0.89	0.73
Mean, in.	0.0510	0.0212	0.0238
Mean, mm	1.296	0.540	0.604
Sorting	4.106	2.839	2.360
Skewness	0.785	0.173	0.046
Kurtosis	0.208	0.093	0.624
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	12.74
Coarse Sand	10	16.59
Medium Sand	40	30.68
Fine Sand	200	24.19
Silt/Clay	<200	15.80
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-46.0-46.5
 Depth, ft: 46.0-46.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.22	0.14	0.14
0.1324	3.364	-1.75	6	0.43	0.26	0.40
0.0787	2.000	-1.00	10	1.52	0.94	1.34
0.0557	1.414	-0.50	14	0.00	0.00	1.34
0.0394	1.000	0.00	18	7.45	4.58	5.92
0.0278	0.707	0.50	25	12.38	7.62	13.54
0.0197	0.500	1.00	35	14.07	8.66	22.19
0.0166	0.420	1.25	40	5.55	3.41	25.61
0.0139	0.354	1.50	45	2.50	1.54	27.15
0.0098	0.250	2.00	60	11.90	7.32	34.47
0.0070	0.177	2.50	80	2.27	1.40	35.86
0.0049	0.125	3.00	120	16.29	10.02	45.89
0.0029	0.074	3.75	200	17.05	10.49	56.38
0.0021	0.053	4.25	270	12.35	7.60	63.98
0.0015	0.037	4.75	400	23.48	14.45	78.42
PAN				35.07	21.58	100.00
TOTALS				162.53	100.00	100.00

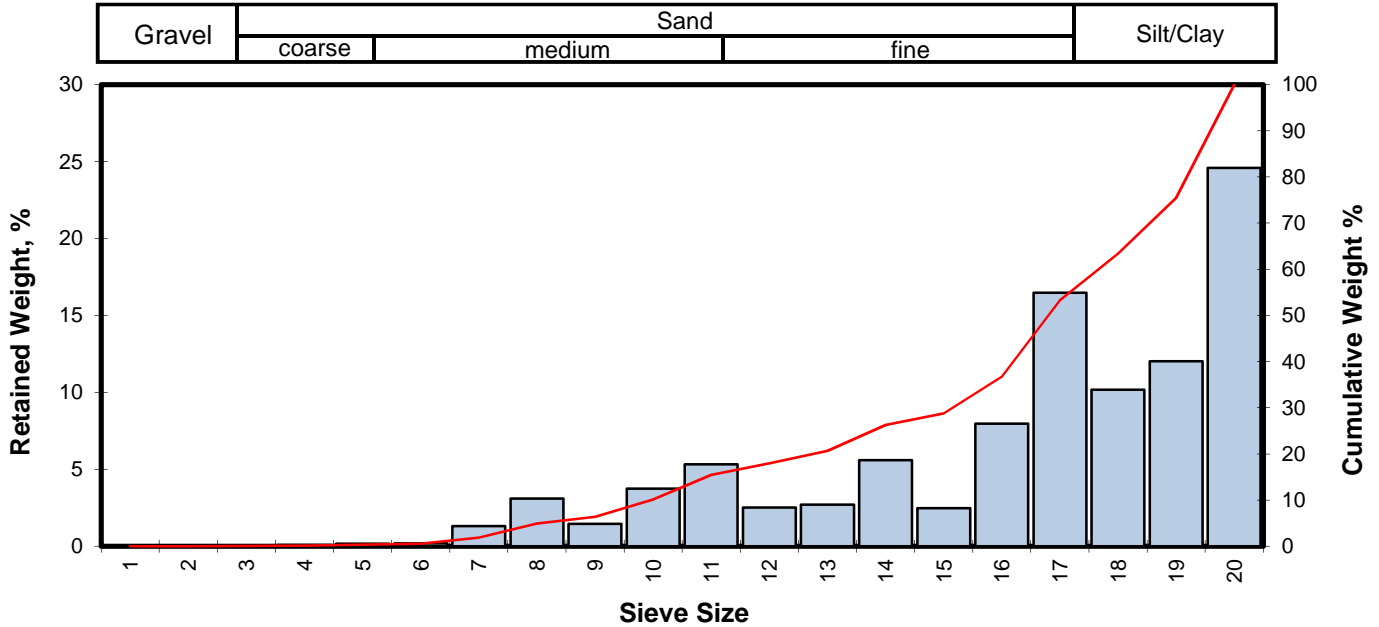
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.10	0.0422	1.072
10	0.27	0.0327	0.831
16	0.64	0.0252	0.641
25	1.21	0.0171	0.434
40	2.71	0.0060	0.153
50	3.29	0.0040	0.102
60	3.99	0.0025	0.063
75	4.63	0.0016	0.040
84	3.52	0.0034	0.087
90	2.20	0.0086	0.217
95	1.10	0.0184	0.466

Measure	Trask	Inman	Folk-Ward
Median, phi	3.29	3.29	3.29
Median, in.	0.0040	0.0040	0.0040
Median, mm	0.102	0.102	0.102
Mean, phi	2.08	2.08	2.49
Mean, in.	0.0093	0.0093	0.0070
Mean, mm	0.237	0.236	0.178
Sorting	3.278	1.440	0.902
Skewness	1.297	-0.842	-2.747
Kurtosis	0.321	-0.583	0.144
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.14
Coarse Sand	10	1.20
Medium Sand	40	24.27
Fine Sand	200	30.77
Silt/Clay	<200	43.62
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-53.5-53.8
 Depth, ft: 53.5-53.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.03	0.02	0.02
0.3740	9.500	-3.25	3/8	0.11	0.07	0.08
0.2500	6.351	-2.67	1/4	0.15	0.09	0.17
0.1873	4.757	-2.25	4	0.29	0.17	0.34
0.1324	3.364	-1.75	6	0.33	0.20	0.54
0.0787	2.000	-1.00	10	2.21	1.31	1.85
0.0557	1.414	-0.50	14	5.23	3.10	4.96
0.0394	1.000	0.00	18	2.44	1.45	6.40
0.0278	0.707	0.50	25	6.31	3.75	10.15
0.0197	0.500	1.00	35	8.98	5.33	15.48
0.0166	0.420	1.25	40	4.23	2.51	17.99
0.0139	0.354	1.50	45	4.56	2.71	20.70
0.0098	0.250	2.00	60	9.44	5.60	26.30
0.0070	0.177	2.50	80	4.17	2.48	28.77
0.0049	0.125	3.00	120	13.43	7.97	36.75
0.0029	0.074	3.75	200	27.76	16.48	53.22
0.0021	0.053	4.25	270	17.12	10.16	63.38
0.0015	0.037	4.75	400	20.26	12.03	75.41
			PAN	41.43	24.59	100.00
TOTALS				168.48	100.00	100.00

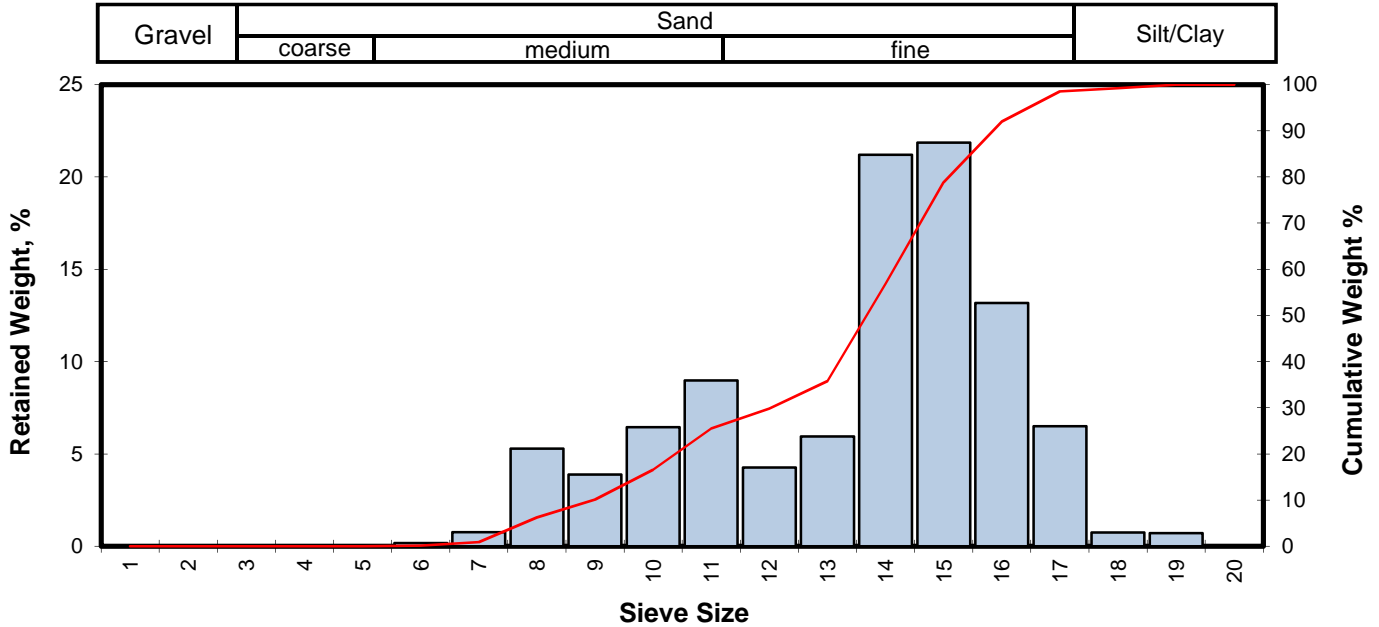
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.48	0.0551	1.399
10	0.48	0.0282	0.717
16	1.05	0.0190	0.482
25	1.88	0.0107	0.271
40	3.15	0.0044	0.113
50	3.60	0.0032	0.082
60	4.08	0.0023	0.059
75	4.73	0.0015	0.038
84	3.09	0.0046	0.117
90	1.93	0.0103	0.262
95	0.97	0.0202	0.512

Measure	Trask	Inman	Folk-Ward
Median, phi	3.60	3.60	3.60
Median, in.	0.0032	0.0032	0.0032
Median, mm	0.082	0.082	0.082
Mean, phi	2.70	2.07	2.58
Mean, in.	0.0061	0.0094	0.0066
Mean, mm	0.154	0.238	0.167
Sorting	2.684	1.019	0.729
Skewness	1.227	-1.503	-3.070
Kurtosis	0.256	-0.288	0.209
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.34
Coarse Sand	10	1.51
Medium Sand	40	16.14
Fine Sand	200	35.23
Silt/Clay	<200	46.78
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-63.5-64.0
 Depth, ft: 63.5-64.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.31	0.17	0.17
0.0787	2.000	-1.00	10	1.40	0.76	0.93
0.0557	1.414	-0.50	14	9.73	5.29	6.22
0.0394	1.000	0.00	18	7.14	3.88	10.10
0.0278	0.707	0.50	25	11.86	6.45	16.55
0.0197	0.500	1.00	35	16.52	8.98	25.53
0.0166	0.420	1.25	40	7.85	4.27	29.80
0.0139	0.354	1.50	45	10.94	5.95	35.75
0.0098	0.250	2.00	60	39.00	21.20	56.95
0.0070	0.177	2.50	80	40.19	21.85	78.80
0.0049	0.125	3.00	120	24.24	13.18	91.98
0.0029	0.074	3.75	200	11.97	6.51	98.48
0.0021	0.053	4.25	270	1.38	0.75	99.23
0.0015	0.037	4.75	400	1.31	0.71	99.95
			PAN	0.10	0.05	100.00
TOTALS				183.94	100.00	100.00

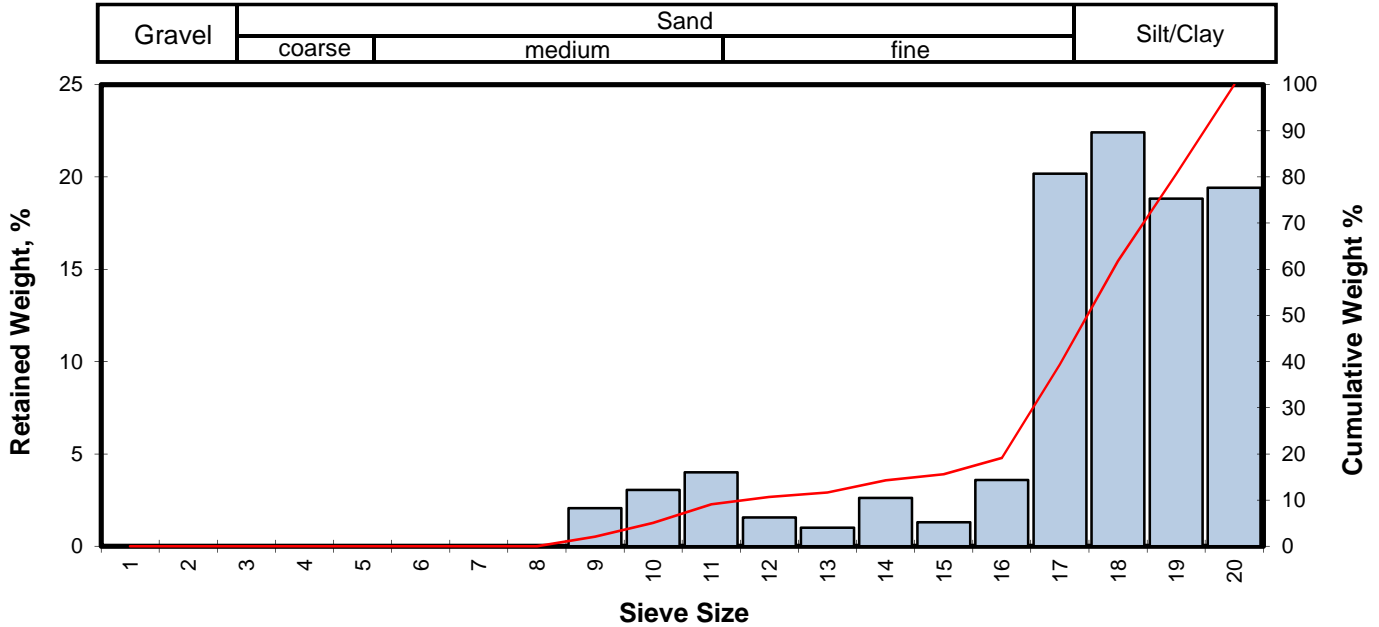
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.62	0.0603	1.532
10	-0.01	0.0397	1.009
16	0.46	0.0287	0.728
25	0.97	0.0201	0.510
40	1.60	0.0130	0.330
50	1.84	0.0110	0.280
60	2.07	0.0094	0.238
75	2.41	0.0074	0.188
84	2.70	0.0061	0.154
90	2.93	0.0052	0.132
95	3.35	0.0039	0.098

Measure	Trask	Inman	Folk-Ward
Median, phi	1.84	1.84	1.84
Median, in.	0.0110	0.0110	0.0110
Median, mm	0.280	0.280	0.280
Mean, phi	1.52	1.58	1.66
Mean, in.	0.0137	0.0132	0.0124
Mean, mm	0.349	0.335	0.316
Sorting	1.649	1.120	1.161
Skewness	1.105	-0.231	-0.234
Kurtosis	0.184	0.770	1.126
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.93
Medium Sand	40	28.87
Fine Sand	200	68.69
Silt/Clay	<200	1.52
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-74.0-74.3
 Depth, ft: 74.0-74.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	3.93	2.06	2.06
0.0278	0.707	0.50	25	5.82	3.04	5.10
0.0197	0.500	1.00	35	7.65	4.00	9.10
0.0166	0.420	1.25	40	2.98	1.56	10.66
0.0139	0.354	1.50	45	1.93	1.01	11.67
0.0098	0.250	2.00	60	5.00	2.62	14.29
0.0070	0.177	2.50	80	2.48	1.30	15.58
0.0049	0.125	3.00	120	6.86	3.59	19.17
0.0029	0.074	3.75	200	38.57	20.18	39.35
0.0021	0.053	4.25	270	42.85	22.42	61.77
0.0015	0.037	4.75	400	35.98	18.82	80.59
			PAN	37.11	19.41	100.00
TOTALS				191.16	100.00	100.00

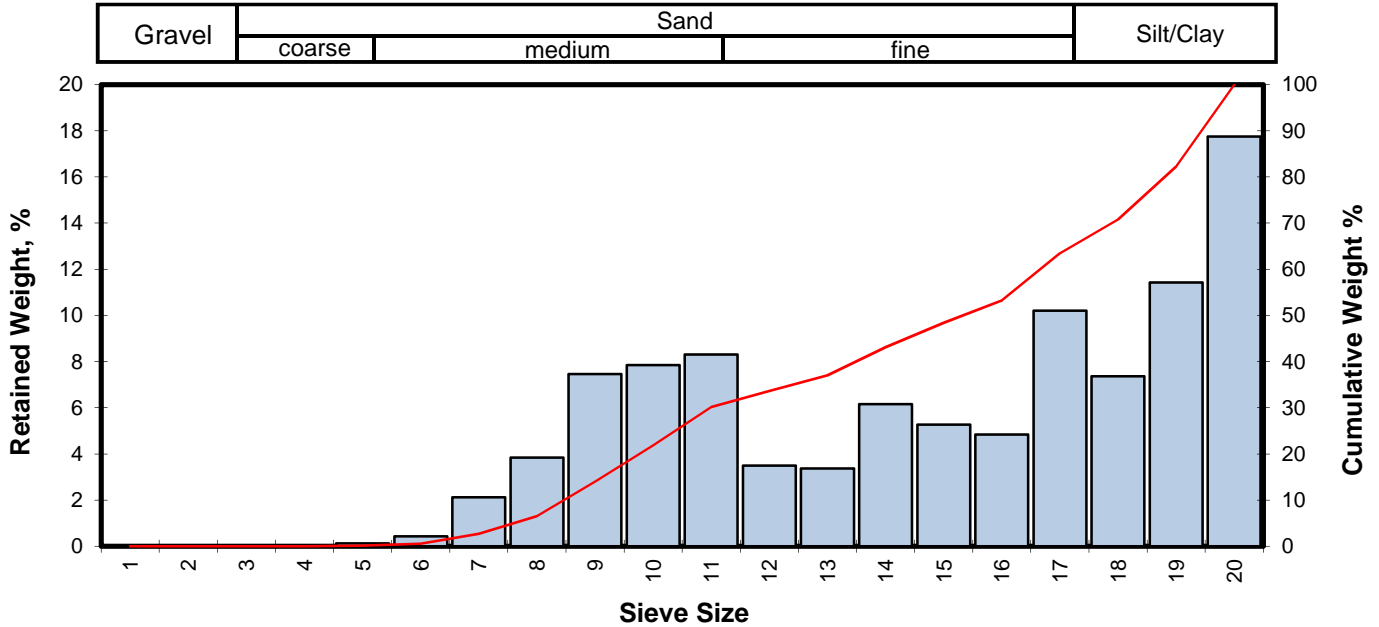
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.48	0.0282	0.715
10	1.14	0.0178	0.453
16	2.56	0.0067	0.170
25	3.22	0.0042	0.108
40	3.76	0.0029	0.074
50	3.99	0.0025	0.063
60	4.21	0.0021	0.054
75	4.60	0.0016	0.041
84	3.91	0.0026	0.066
90	2.45	0.0072	0.183
95	1.22	0.0169	0.428

Measure	Trask	Inman	Folk-Ward
Median, phi	3.99	3.99	3.99
Median, in.	0.0025	0.0025	0.0025
Median, mm	0.063	0.063	0.063
Mean, phi	3.75	3.24	3.49
Mean, in.	0.0029	0.0042	0.0035
Mean, mm	0.074	0.106	0.089
Sorting	1.616	0.678	0.451
Skewness	1.056	-1.107	-4.789
Kurtosis	0.123	-0.455	0.219
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	10.66
Fine Sand	200	28.69
Silt/Clay	<200	60.65
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-88.8-89.3
 Depth, ft: 88.8-89.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.20	0.13	0.13
0.1324	3.364	-1.75	6	0.68	0.43	0.55
0.0787	2.000	-1.00	10	3.38	2.13	2.68
0.0557	1.414	-0.50	14	6.09	3.84	6.52
0.0394	1.000	0.00	18	11.85	7.47	13.99
0.0278	0.707	0.50	25	12.45	7.84	21.83
0.0197	0.500	1.00	35	13.18	8.30	30.13
0.0166	0.420	1.25	40	5.54	3.49	33.62
0.0139	0.354	1.50	45	5.35	3.37	36.99
0.0098	0.250	2.00	60	9.77	6.15	43.15
0.0070	0.177	2.50	80	8.36	5.27	48.41
0.0049	0.125	3.00	120	7.68	4.84	53.25
0.0029	0.074	3.75	200	16.21	10.21	63.46
0.0021	0.053	4.25	270	11.68	7.36	70.82
0.0015	0.037	4.75	400	18.14	11.43	82.25
PAN				28.18	17.75	100.00
TOTALS				158.74	100.00	100.00

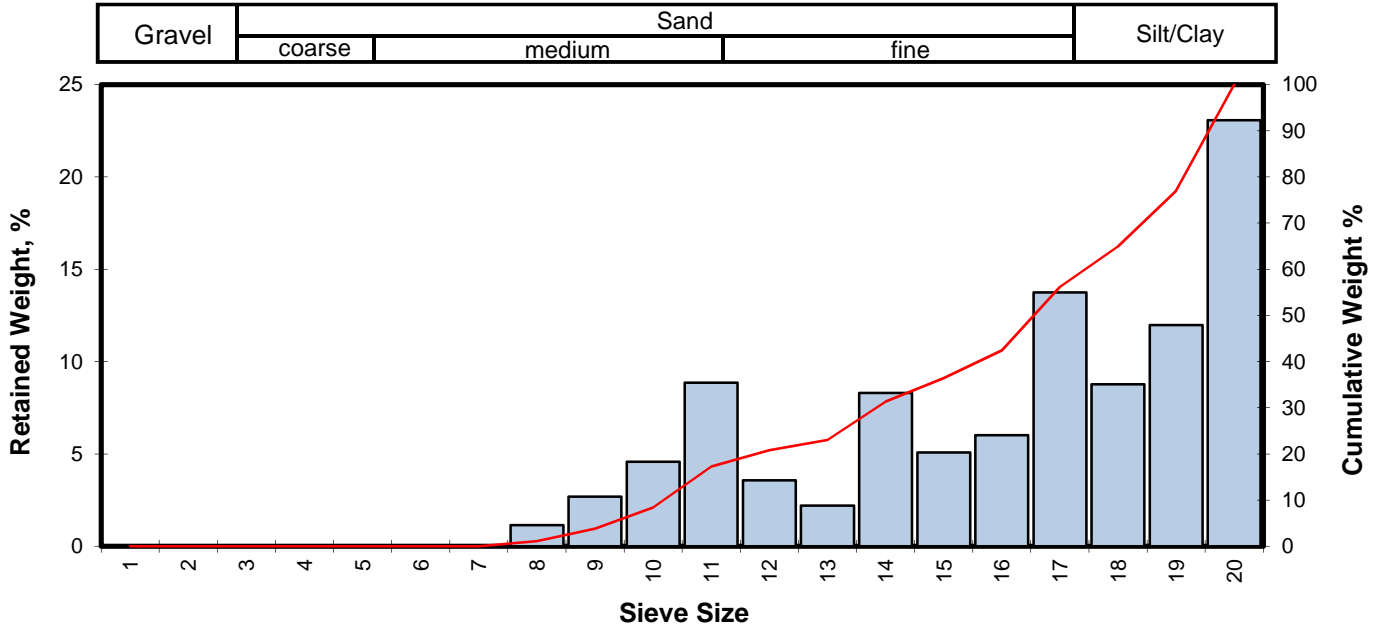
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.70	0.0639	1.622
10	-0.27	0.0474	1.203
16	0.13	0.0360	0.915
25	0.69	0.0244	0.619
40	1.74	0.0118	0.298
50	2.66	0.0062	0.158
60	3.50	0.0035	0.089
75	4.43	0.0018	0.046
84	4.28	0.0020	0.051
90	2.68	0.0062	0.157
95	1.34	0.0156	0.396

Measure	Trask	Inman	Folk-Ward
Median, phi	2.66	2.66	2.66
Median, in.	0.0062	0.0062	0.0062
Median, mm	0.158	0.158	0.158
Mean, phi	1.59	2.20	2.36
Mean, in.	0.0131	0.0085	0.0077
Mean, mm	0.333	0.217	0.195
Sorting	3.658	2.076	1.347
Skewness	1.073	-0.221	-1.262
Kurtosis	0.274	-0.510	0.223
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.13
Coarse Sand	10	2.56
Medium Sand	40	30.94
Fine Sand	200	29.84
Silt/Clay	<200	36.54
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M204-108.2-108.7
 Depth, ft: 108.2-108.7



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	1.32	1.14	1.14
0.0394	1.000	0.00	18	3.11	2.69	3.83
0.0278	0.707	0.50	25	5.29	4.58	8.41
0.0197	0.500	1.00	35	10.23	8.86	17.27
0.0166	0.420	1.25	40	4.12	3.57	20.84
0.0139	0.354	1.50	45	2.55	2.21	23.04
0.0098	0.250	2.00	60	9.60	8.31	31.35
0.0070	0.177	2.50	80	5.87	5.08	36.44
0.0049	0.125	3.00	120	6.95	6.02	42.45
0.0029	0.074	3.75	200	15.87	13.74	56.19
0.0021	0.053	4.25	270	10.13	8.77	64.96
0.0015	0.037	4.75	400	13.84	11.98	76.94
PAN				26.64	23.06	100.00
TOTALS				115.52	100.00	100.00

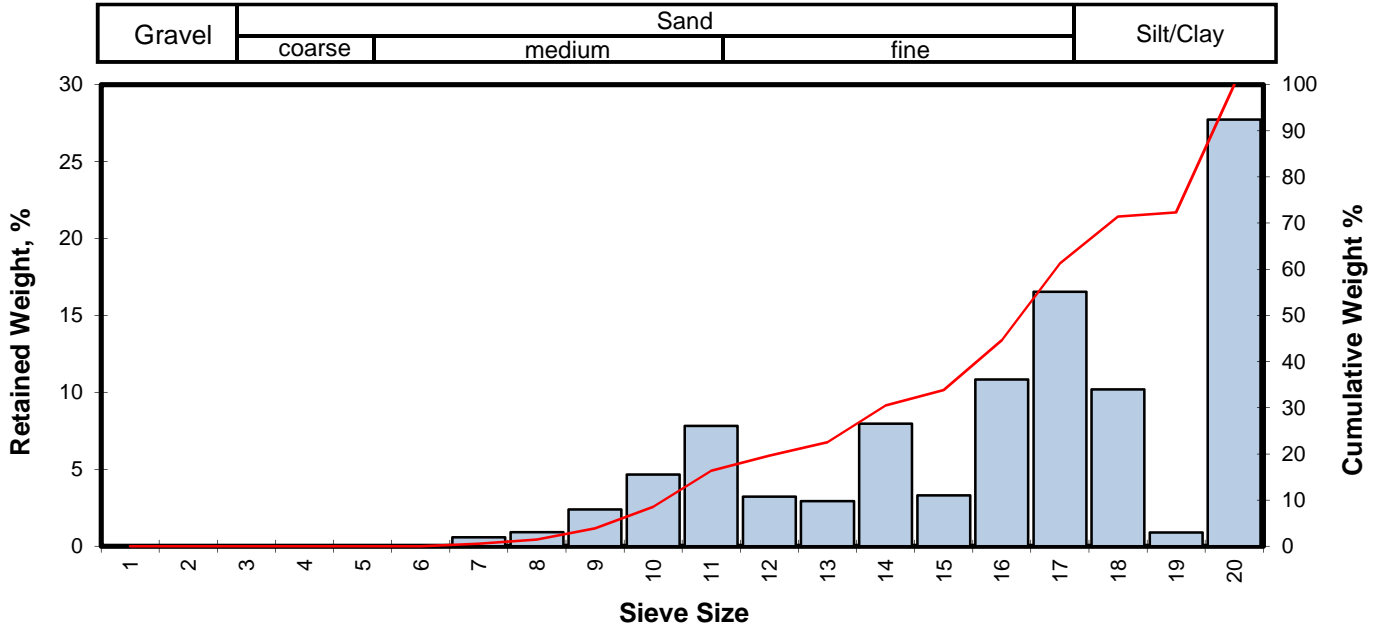
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.13	0.0360	0.916
10	0.59	0.0262	0.665
16	0.93	0.0207	0.525
25	1.62	0.0128	0.326
40	2.80	0.0057	0.144
50	3.41	0.0037	0.094
60	3.97	0.0025	0.064
75	4.67	0.0015	0.039
84	3.30	0.0040	0.102
90	2.06	0.0094	0.240
95	1.03	0.0193	0.490

Measure	Trask	Inman	Folk-Ward
Median, phi	3.41	3.41	3.41
Median, in.	0.0037	0.0037	0.0037
Median, mm	0.094	0.094	0.094
Mean, phi	2.45	2.11	2.55
Mean, in.	0.0072	0.0091	0.0067
Mean, mm	0.183	0.231	0.171
Sorting	2.879	1.184	0.729
Skewness	1.205	-1.098	-3.688
Kurtosis	0.337	-0.619	0.121
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	20.84
Fine Sand	200	35.35
Silt/Clay	<200	43.81
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M205-45.3-45.8
 Depth, ft: 45.3-45.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.54	0.58	0.58
0.0557	1.414	-0.50	14	0.85	0.91	1.49
0.0394	1.000	0.00	18	2.24	2.40	3.89
0.0278	0.707	0.50	25	4.35	4.66	8.56
0.0197	0.500	1.00	35	7.30	7.83	16.38
0.0166	0.420	1.25	40	3.01	3.23	19.61
0.0139	0.354	1.50	45	2.73	2.93	22.54
0.0098	0.250	2.00	60	7.43	7.97	30.51
0.0070	0.177	2.50	80	3.09	3.31	33.82
0.0049	0.125	3.00	120	10.10	10.83	44.65
0.0029	0.074	3.75	200	15.43	16.55	61.19
0.0021	0.053	4.25	270	9.51	10.20	71.39
0.0015	0.037	4.75	400	0.83	0.89	72.28
PAN				25.85	27.72	100.00
TOTALS				93.26	100.00	100.00

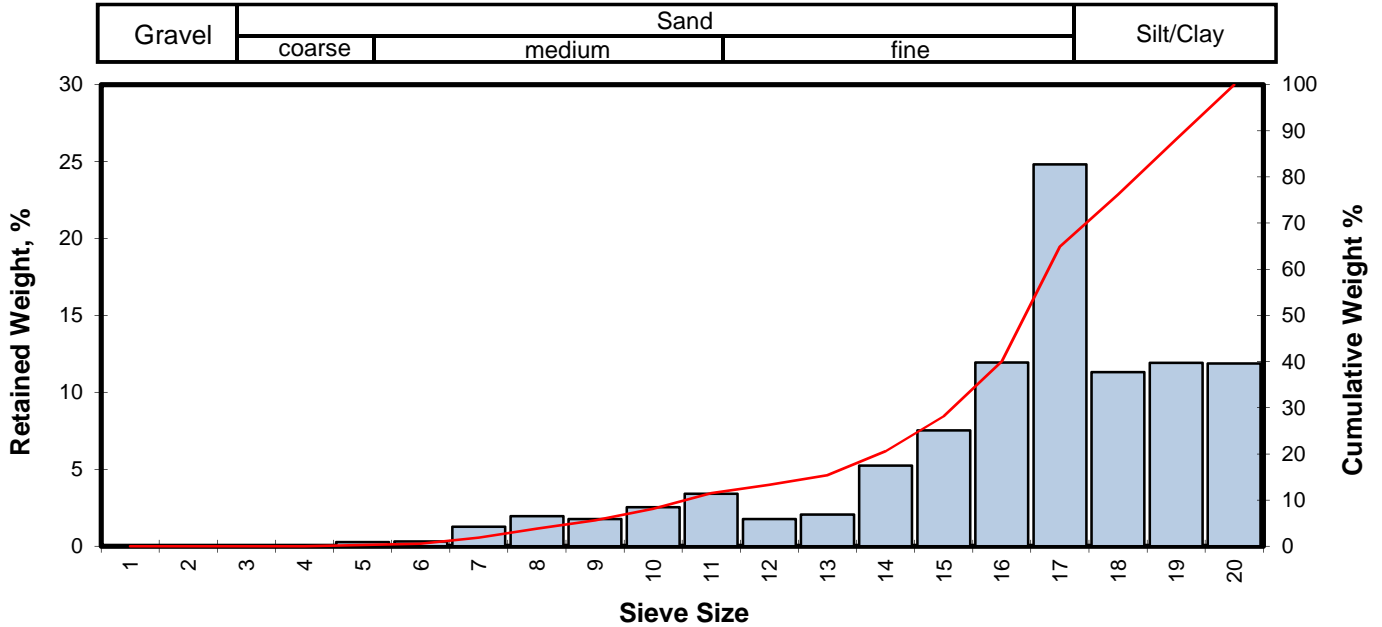
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.12	0.0363	0.921
10	0.59	0.0261	0.663
16	0.98	0.0200	0.509
25	1.65	0.0125	0.318
40	2.79	0.0057	0.145
50	3.24	0.0042	0.106
60	3.70	0.0030	0.077
75	4.28	0.0020	0.051
84	2.74	0.0059	0.149
90	1.71	0.0120	0.305
95	0.86	0.0217	0.552

Measure	Trask	Inman	Folk-Ward
Median, phi	3.24	3.24	3.24
Median, in.	0.0042	0.0042	0.0042
Median, mm	0.106	0.106	0.106
Mean, phi	2.44	1.86	2.32
Mean, in.	0.0073	0.0109	0.0079
Mean, mm	0.184	0.276	0.200
Sorting	2.488	0.883	0.553
Skewness	1.209	-1.567	-4.516
Kurtosis	0.372	-0.582	0.115
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.58
Medium Sand	40	19.03
Fine Sand	200	41.58
Silt/Clay	<200	38.81
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M206-21.5-21.8
 Depth, ft: 21.5-21.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.60	0.27	0.27
0.1324	3.364	-1.75	6	0.71	0.32	0.59
0.0787	2.000	-1.00	10	2.84	1.28	1.87
0.0557	1.414	-0.50	14	4.36	1.96	3.83
0.0394	1.000	0.00	18	3.91	1.76	5.59
0.0278	0.707	0.50	25	5.65	2.54	8.13
0.0197	0.500	1.00	35	7.58	3.41	11.54
0.0166	0.420	1.25	40	3.92	1.76	13.30
0.0139	0.354	1.50	45	4.58	2.06	15.36
0.0098	0.250	2.00	60	11.65	5.24	20.61
0.0070	0.177	2.50	80	16.73	7.53	28.13
0.0049	0.125	3.00	120	26.53	11.94	40.07
0.0029	0.074	3.75	200	55.17	24.82	64.89
0.0021	0.053	4.25	270	25.15	11.32	76.21
0.0015	0.037	4.75	400	26.47	11.91	88.12
PAN				26.41	11.88	100.00
TOTALS				222.26	100.00	100.00

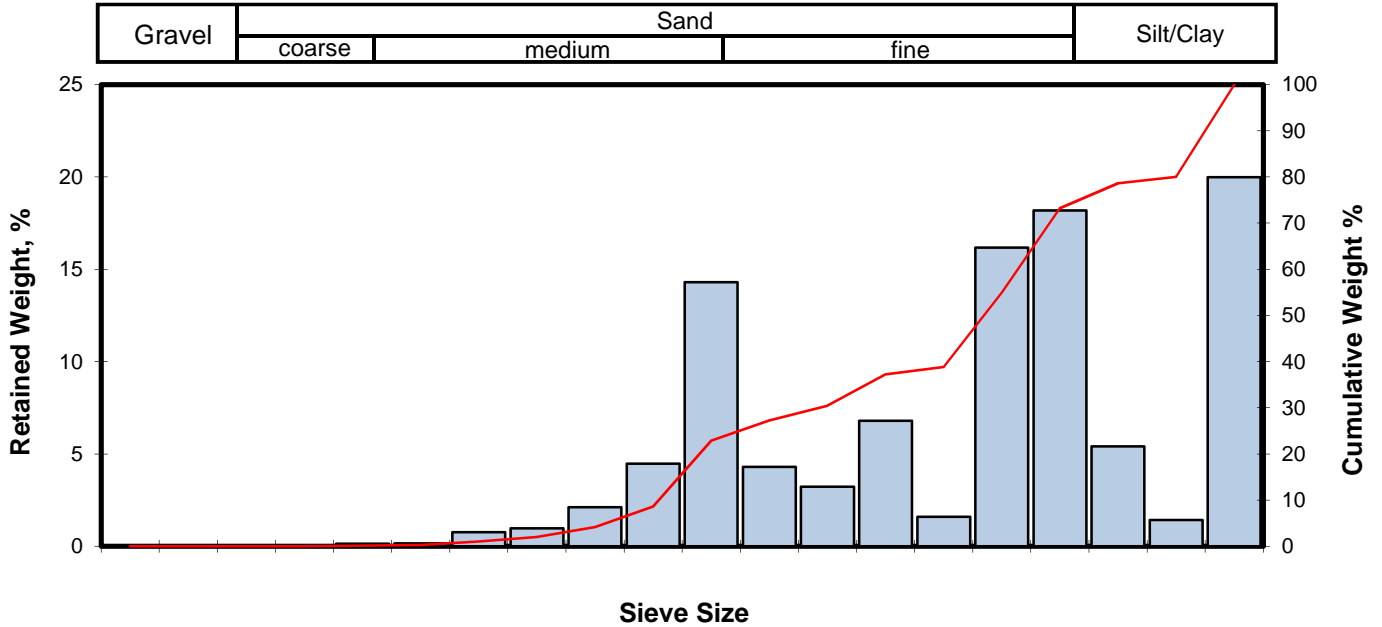
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.17	0.0442	1.123
10	0.77	0.0230	0.585
16	1.56	0.0133	0.339
25	2.29	0.0080	0.204
40	3.00	0.0049	0.125
50	3.30	0.0040	0.102
60	3.60	0.0032	0.082
75	4.20	0.0021	0.055
84	4.58	0.0016	0.042
90	4.00	0.0025	0.063
95	2.00	0.0099	0.250

Measure	Trask	Inman	Folk-Ward
Median, phi	3.30	3.30	3.30
Median, in.	0.0040	0.0040	0.0040
Median, mm	0.102	0.102	0.102
Mean, phi	2.95	3.07	3.15
Mean, in.	0.0051	0.0047	0.0044
Mean, mm	0.129	0.119	0.113
Sorting	1.935	1.508	1.082
Skewness	1.039	-0.153	-1.177
Kurtosis	0.143	-0.282	0.466
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.27
Coarse Sand	10	1.60
Medium Sand	40	11.44
Fine Sand	200	51.59
Silt/Clay	<200	35.11
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M206-28.0-28.3
 Depth, ft: 28.0-28.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.34	0.14	0.14
0.1324	3.364	-1.75	6	0.37	0.15	0.30
0.0787	2.000	-1.00	10	1.81	0.76	1.05
0.0557	1.414	-0.50	14	2.32	0.97	2.02
0.0394	1.000	0.00	18	5.06	2.11	4.13
0.0278	0.707	0.50	25	10.73	4.48	8.62
0.0197	0.500	1.00	35	34.24	14.30	22.91
0.0166	0.420	1.25	40	10.31	4.31	27.22
0.0139	0.354	1.50	45	7.72	3.22	30.44
0.0098	0.250	2.00	60	16.29	6.80	37.25
0.0070	0.177	2.50	80	3.81	1.59	38.84
0.0049	0.125	3.00	120	38.72	16.17	55.01
0.0029	0.074	3.75	200	43.54	18.18	73.19
0.0021	0.053	4.25	270	12.94	5.40	78.59
0.0015	0.037	4.75	400	3.39	1.42	80.01
			PAN	47.87	19.99	100.00
TOTALS				239.46	100.00	100.00

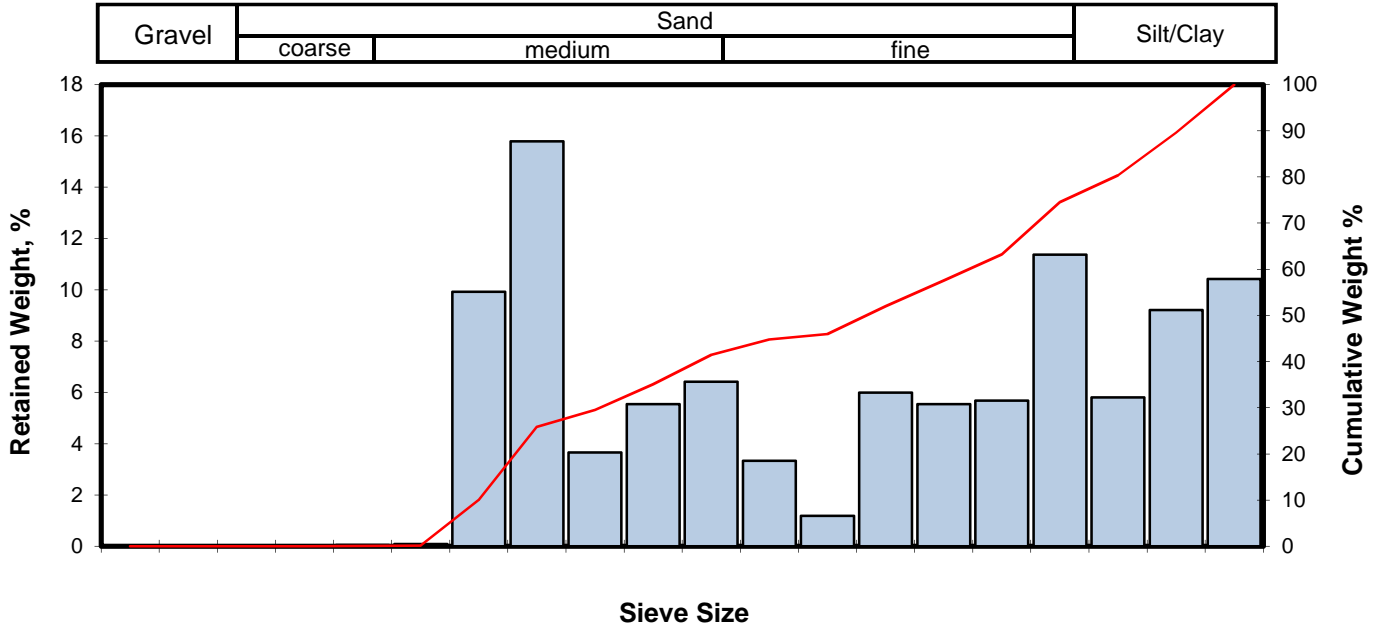
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.10	0.0368	0.935
10	0.55	0.0269	0.684
16	0.76	0.0233	0.591
25	1.12	0.0181	0.460
40	2.54	0.0068	0.172
50	2.85	0.0055	0.139
60	3.21	0.0043	0.108
75	3.92	0.0026	0.066
84	3.80	0.0028	0.072
90	2.38	0.0076	0.193
95	1.19	0.0173	0.439

Measure	Trask	Inman	Folk-Ward
Median, phi	2.85	2.85	2.85
Median, in.	0.0055	0.0055	0.0055
Median, mm	0.139	0.139	0.139
Mean, phi	1.93	2.28	2.47
Mean, in.	0.0104	0.0081	0.0071
Mean, mm	0.263	0.206	0.181
Sorting	2.636	1.522	0.926
Skewness	1.253	-0.371	-2.204
Kurtosis	0.401	-0.641	0.160
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.14
Coarse Sand	10	0.91
Medium Sand	40	26.17
Fine Sand	200	45.97
Silt/Clay	<200	26.81
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M206-30.0-30.5
 Depth, ft: 30.0-30.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.11	0.05	0.05
0.1324	3.364	-1.75	6	0.20	0.09	0.14
0.0787	2.000	-1.00	10	22.36	9.93	10.06
0.0557	1.414	-0.50	14	35.56	15.79	25.85
0.0394	1.000	0.00	18	8.24	3.66	29.51
0.0278	0.707	0.50	25	12.49	5.54	35.05
0.0197	0.500	1.00	35	14.46	6.42	41.47
0.0166	0.420	1.25	40	7.50	3.33	44.80
0.0139	0.354	1.50	45	2.66	1.18	45.98
0.0098	0.250	2.00	60	13.49	5.99	51.97
0.0070	0.177	2.50	80	12.49	5.54	57.51
0.0049	0.125	3.00	120	12.80	5.68	63.20
0.0029	0.074	3.75	200	25.60	11.36	74.56
0.0021	0.053	4.25	270	13.08	5.81	80.37
0.0015	0.037	4.75	400	20.75	9.21	89.58
PAN				23.48	10.42	100.00
TOTALS				225.27	100.00	100.00

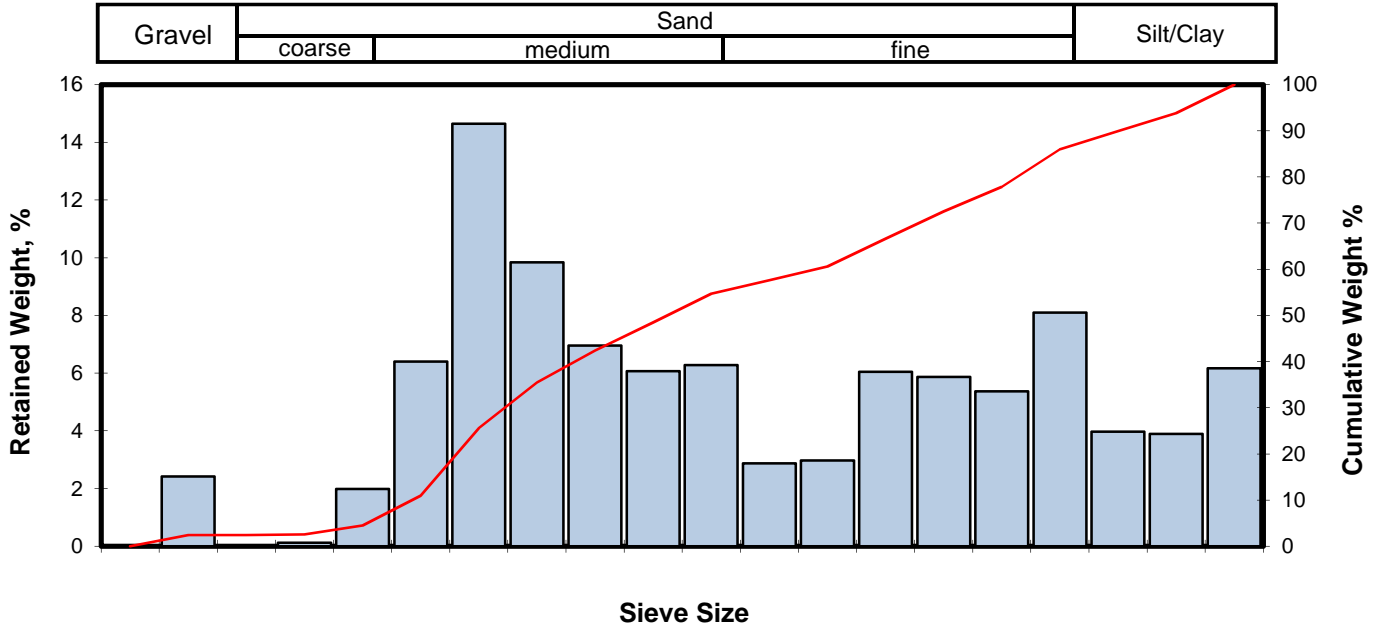
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.38	0.1027	2.607
10	-1.00	0.0790	2.007
16	-0.81	0.0691	1.756
25	-0.53	0.0567	1.441
40	0.89	0.0213	0.541
50	1.84	0.0110	0.280
60	2.72	0.0060	0.152
75	3.79	0.0029	0.072
84	4.45	0.0018	0.046
90	4.56	0.0017	0.042
95	2.28	0.0081	0.206

Measure	Trask	Inman	Folk-Ward
Median, phi	1.84	1.84	1.84
Median, in.	0.0110	0.0110	0.0110
Median, mm	0.280	0.280	0.280
Mean, phi	0.40	1.82	1.82
Mean, in.	0.0298	0.0112	0.0111
Mean, mm	0.757	0.284	0.283
Sorting	4.461	2.630	1.870
Skewness	1.153	-0.007	-0.382
Kurtosis	0.348	-0.304	0.348
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.05
Coarse Sand	10	10.01
Medium Sand	40	34.74
Fine Sand	200	29.76
Silt/Clay	<200	25.44
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M210-12.5-12.8
 Depth, ft: 12.5-12.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	8.09	2.42	2.42
0.3740	9.500	-3.25	3/8	0.00	0.00	2.42
0.2500	6.351	-2.67	1/4	0.41	0.12	2.54
0.1873	4.757	-2.25	4	6.64	1.98	4.53
0.1324	3.364	-1.75	6	21.41	6.40	10.93
0.0787	2.000	-1.00	10	48.99	14.65	25.57
0.0557	1.414	-0.50	14	32.92	9.84	35.41
0.0394	1.000	0.00	18	23.28	6.96	42.37
0.0278	0.707	0.50	25	20.31	6.07	48.44
0.0197	0.500	1.00	35	21.01	6.28	54.72
0.0166	0.420	1.25	40	9.62	2.88	57.60
0.0139	0.354	1.50	45	9.95	2.97	60.58
0.0098	0.250	2.00	60	20.24	6.05	66.63
0.0070	0.177	2.50	80	19.64	5.87	72.50
0.0049	0.125	3.00	120	17.95	5.37	77.86
0.0029	0.074	3.75	200	27.10	8.10	85.96
0.0021	0.053	4.25	270	13.30	3.98	89.94
0.0015	0.037	4.75	400	13.03	3.90	93.84
PAN				20.62	6.16	100.00
TOTALS				334.51	100.00	100.00

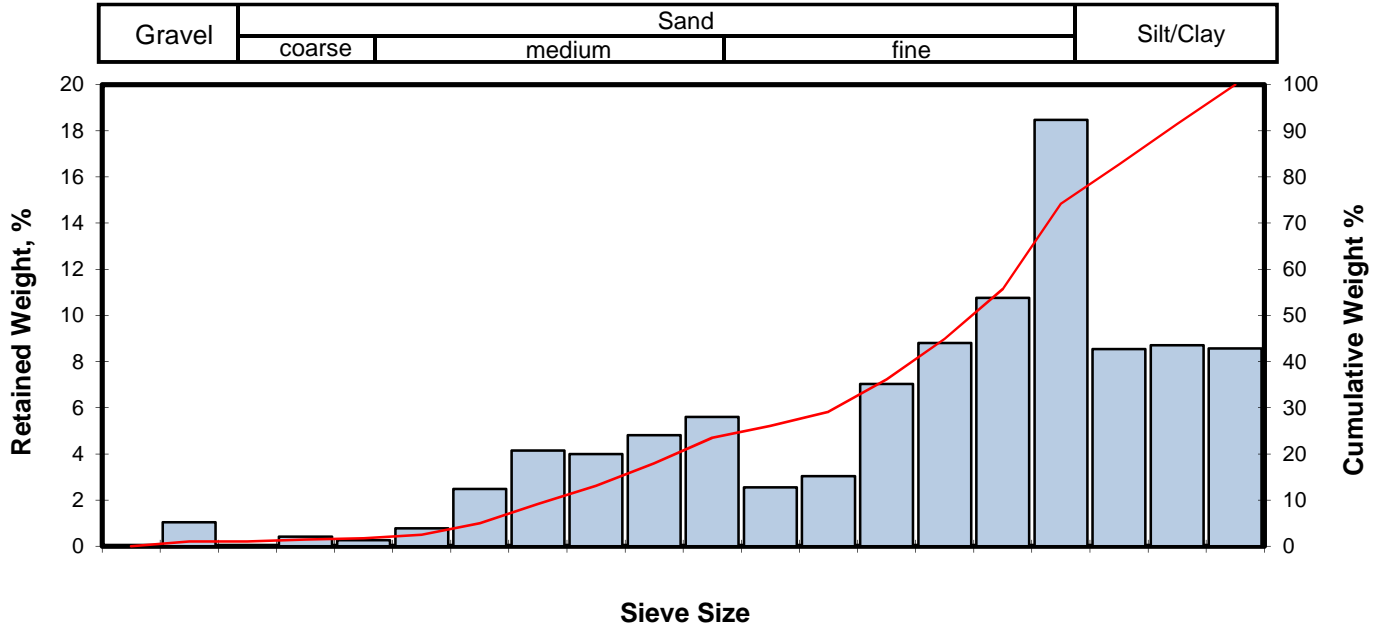
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.21	0.1825	4.636
10	-1.82	0.1392	3.537
16	-1.49	0.1106	2.809
25	-1.03	0.0804	2.041
40	-0.17	0.0443	1.125
50	0.62	0.0255	0.649
60	1.45	0.0144	0.366
75	2.73	0.0059	0.150
84	3.57	0.0033	0.084
90	4.26	0.0021	0.052
95	3.85	0.0027	0.069

Measure	Trask	Inman	Folk-Ward
Median, phi	0.62	0.62	0.62
Median, in.	0.0255	0.0255	0.0255
Median, mm	0.649	0.649	0.649
Mean, phi	-0.13	1.04	0.90
Mean, in.	0.0431	0.0192	0.0211
Mean, mm	1.096	0.487	0.536
Sorting	3.684	2.529	2.184
Skewness	0.854	0.164	0.114
Kurtosis	0.271	0.199	0.661
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	4.53
Coarse Sand	10	21.05
Medium Sand	40	32.03
Fine Sand	200	28.36
Silt/Clay	<200	14.04
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M210-26.5-26.8
 Depth, ft: 26.5-26.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	2.53	1.04	1.04
0.3740	9.500	-3.25	3/8	0.00	0.00	1.04
0.2500	6.351	-2.67	1/4	1.00	0.41	1.45
0.1873	4.757	-2.25	4	0.64	0.26	1.71
0.1324	3.364	-1.75	6	1.89	0.78	2.49
0.0787	2.000	-1.00	10	6.05	2.49	4.98
0.0557	1.414	-0.50	14	10.09	4.15	9.12
0.0394	1.000	0.00	18	9.73	4.00	13.12
0.0278	0.707	0.50	25	11.70	4.81	17.93
0.0197	0.500	1.00	35	13.62	5.60	23.53
0.0166	0.420	1.25	40	6.21	2.55	26.08
0.0139	0.354	1.50	45	7.40	3.04	29.12
0.0098	0.250	2.00	60	17.10	7.03	36.15
0.0070	0.177	2.50	80	21.41	8.80	44.95
0.0049	0.125	3.00	120	26.19	10.76	55.71
0.0029	0.074	3.75	200	44.93	18.46	74.17
0.0021	0.053	4.25	270	20.80	8.55	82.72
0.0015	0.037	4.75	400	21.19	8.71	91.43
PAN				20.85	8.57	100.00
TOTALS				243.33	100.00	100.00

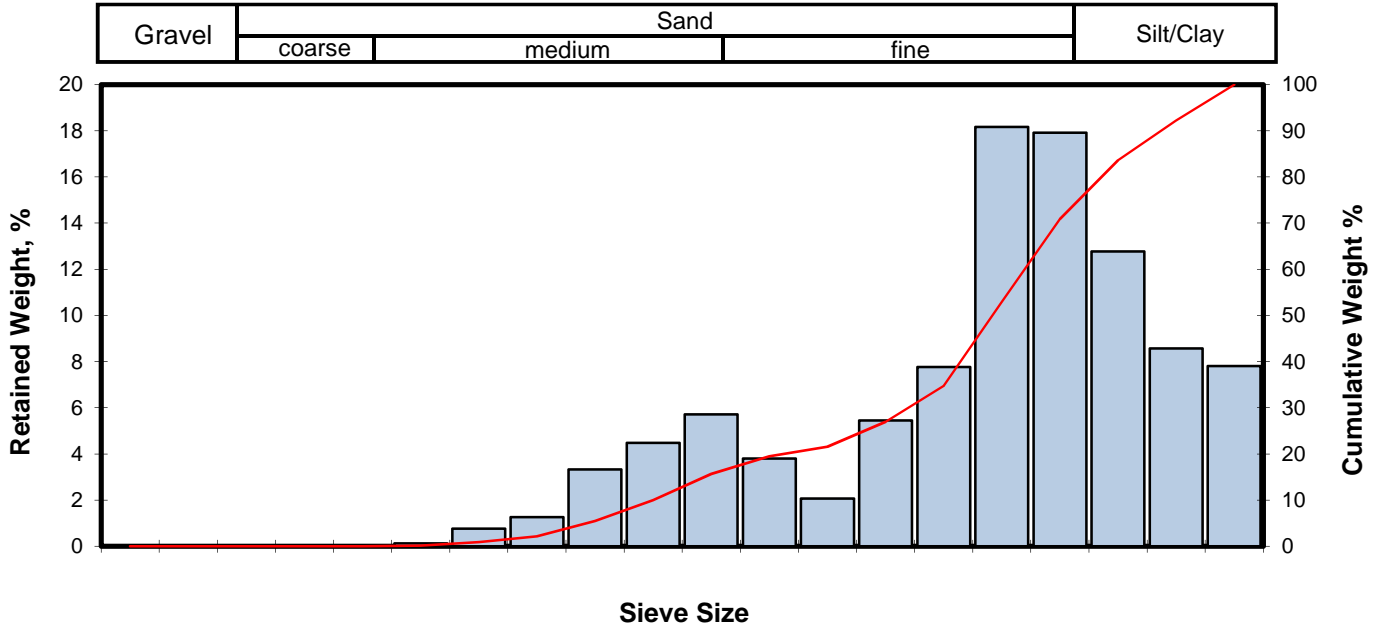
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.00	0.0786	1.996
10	-0.39	0.0516	1.311
16	0.30	0.0320	0.813
25	1.14	0.0178	0.452
40	2.22	0.0085	0.215
50	2.73	0.0059	0.150
60	3.17	0.0044	0.111
75	3.80	0.0028	0.072
84	4.32	0.0020	0.050
90	4.67	0.0015	0.039
95	2.77	0.0058	0.146

Measure	Trask	Inman	Folk-Ward
Median, phi	2.73	2.73	2.73
Median, in.	0.0059	0.0059	0.0059
Median, mm	0.150	0.150	0.150
Mean, phi	1.93	2.31	2.45
Mean, in.	0.0103	0.0079	0.0072
Mean, mm	0.262	0.201	0.183
Sorting	2.509	2.012	1.577
Skewness	1.200	-0.210	-0.595
Kurtosis	0.150	-0.063	0.582
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	1.71
Coarse Sand	10	3.26
Medium Sand	40	21.10
Fine Sand	200	48.10
Silt/Clay	<200	25.83
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M210-35.5-36.0
 Depth, ft: 35.5-36.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.23	0.13	0.13
0.0787	2.000	-1.00	10	1.40	0.77	0.89
0.0557	1.414	-0.50	14	2.31	1.27	2.16
0.0394	1.000	0.00	18	6.07	3.33	5.49
0.0278	0.707	0.50	25	8.17	4.48	9.97
0.0197	0.500	1.00	35	10.41	5.71	15.68
0.0166	0.420	1.25	40	6.94	3.81	19.48
0.0139	0.354	1.50	45	3.78	2.07	21.55
0.0098	0.250	2.00	60	9.93	5.44	27.00
0.0070	0.177	2.50	80	14.17	7.77	34.77
0.0049	0.125	3.00	120	33.14	18.17	52.94
0.0029	0.074	3.75	200	32.68	17.92	70.85
0.0021	0.053	4.25	270	23.29	12.77	83.62
0.0015	0.037	4.75	400	15.62	8.56	92.19
			PAN	14.25	7.81	100.00
TOTALS				182.39	100.00	100.00

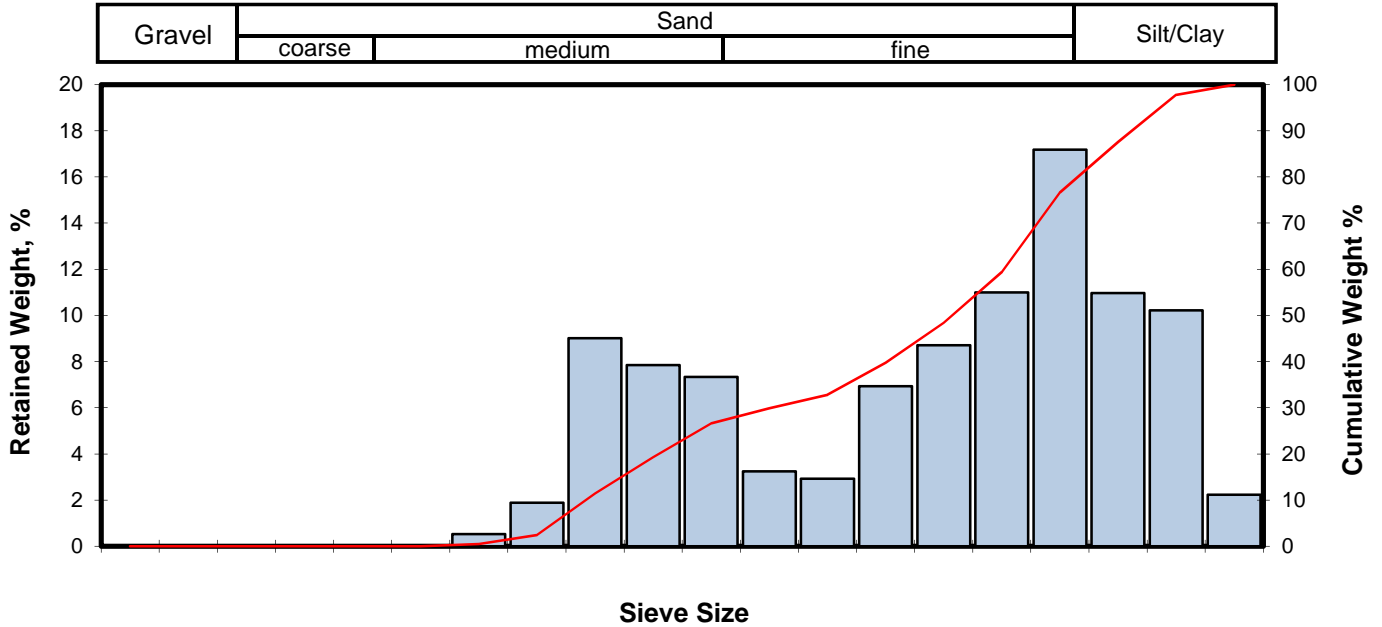
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.07	0.0414	1.052
10	0.50	0.0278	0.706
16	1.02	0.0194	0.493
25	1.82	0.0112	0.284
40	2.64	0.0063	0.160
50	2.92	0.0052	0.132
60	3.30	0.0040	0.102
75	3.91	0.0026	0.066
84	4.27	0.0020	0.052
90	4.62	0.0016	0.041
95	3.04	0.0048	0.122

Measure	Trask	Inman	Folk-Ward
Median, phi	2.92	2.92	2.92
Median, in.	0.0052	0.0052	0.0052
Median, mm	0.132	0.132	0.132
Mean, phi	2.51	2.65	2.74
Mean, in.	0.0069	0.0063	0.0059
Mean, mm	0.175	0.160	0.150
Sorting	2.067	1.625	1.284
Skewness	1.039	-0.168	-0.545
Kurtosis	0.163	-0.042	0.609
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.89
Medium Sand	40	18.59
Fine Sand	200	51.37
Silt/Clay	<200	29.15
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M210-41.0-41.5
 Depth, ft: 41.0-41.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.78	0.52	0.52
0.0557	1.414	-0.50	14	2.83	1.89	2.41
0.0394	1.000	0.00	18	13.48	9.02	11.43
0.0278	0.707	0.50	25	11.73	7.85	19.28
0.0197	0.500	1.00	35	10.97	7.34	26.61
0.0166	0.420	1.25	40	4.85	3.24	29.86
0.0139	0.354	1.50	45	4.37	2.92	32.78
0.0098	0.250	2.00	60	10.37	6.94	39.72
0.0070	0.177	2.50	80	13.01	8.70	48.42
0.0049	0.125	3.00	120	16.44	11.00	59.41
0.0029	0.074	3.75	200	25.68	17.18	76.59
0.0021	0.053	4.25	270	16.39	10.96	87.55
0.0015	0.037	4.75	400	15.27	10.21	97.77
PAN				3.34	2.23	100.00
TOTALS				149.51	100.00	100.00

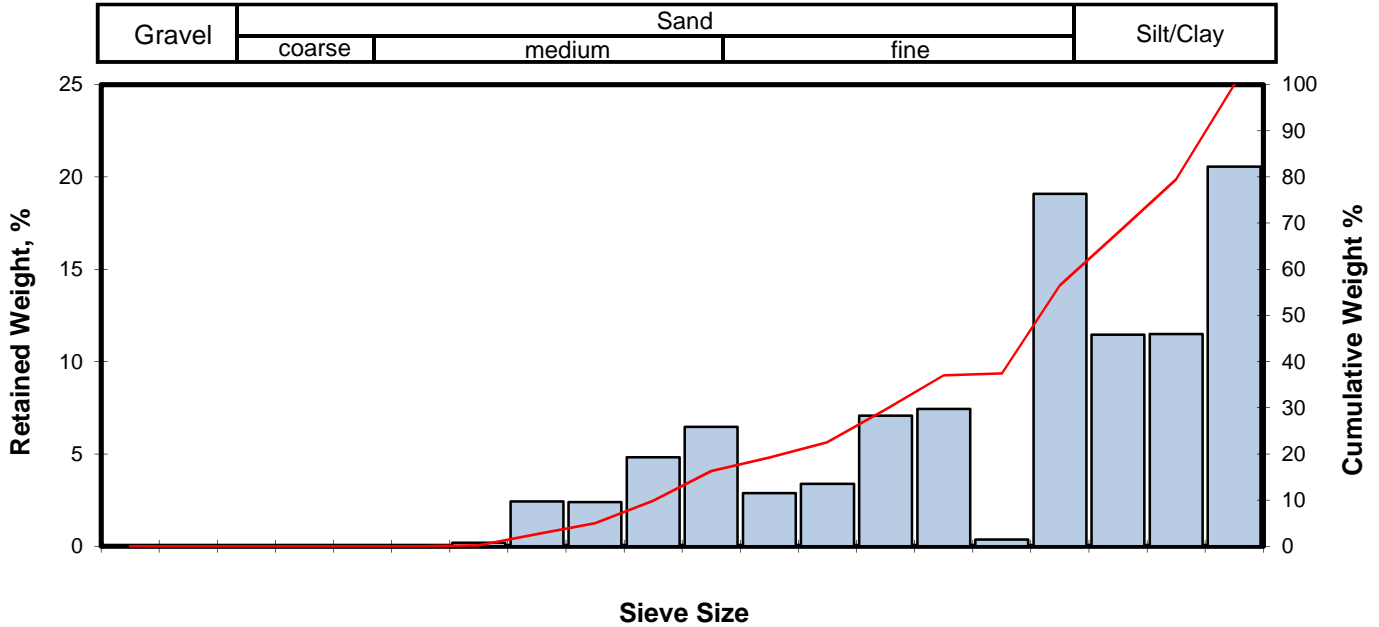
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.36	0.0504	1.280
10	-0.08	0.0416	1.057
16	0.29	0.0322	0.817
25	0.89	0.0212	0.540
40	2.02	0.0097	0.247
50	2.57	0.0066	0.168
60	3.03	0.0048	0.123
75	3.68	0.0031	0.078
84	4.09	0.0023	0.059
90	4.37	0.0019	0.048
95	4.61	0.0016	0.041

Measure	Trask	Inman	Folk-Ward
Median, phi	2.57	2.57	2.57
Median, in.	0.0066	0.0066	0.0066
Median, mm	0.168	0.168	0.168
Mean, phi	1.70	2.19	2.32
Mean, in.	0.0122	0.0086	0.0079
Mean, mm	0.309	0.219	0.201
Sorting	2.630	1.898	1.702
Skewness	1.220	-0.201	-0.190
Kurtosis	0.229	0.309	0.730
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.52
Medium Sand	40	29.34
Fine Sand	200	46.73
Silt/Clay	<200	23.41
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M210-53.3-53.8
 Depth, ft: 53.3-53.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.26	0.18	0.18
0.0557	1.414	-0.50	14	3.41	2.42	2.61
0.0394	1.000	0.00	18	3.37	2.39	5.00
0.0278	0.707	0.50	25	6.79	4.82	9.83
0.0197	0.500	1.00	35	9.10	6.47	16.29
0.0166	0.420	1.25	40	4.06	2.88	19.18
0.0139	0.354	1.50	45	4.75	3.38	22.55
0.0098	0.250	2.00	60	9.95	7.07	29.62
0.0070	0.177	2.50	80	10.46	7.43	37.06
0.0049	0.125	3.00	120	0.51	0.36	37.42
0.0029	0.074	3.75	200	26.86	19.09	56.51
0.0021	0.053	4.25	270	16.12	11.45	67.96
0.0015	0.037	4.75	400	16.17	11.49	79.45
PAN				28.92	20.55	100.00
TOTALS				140.73	100.00	100.00

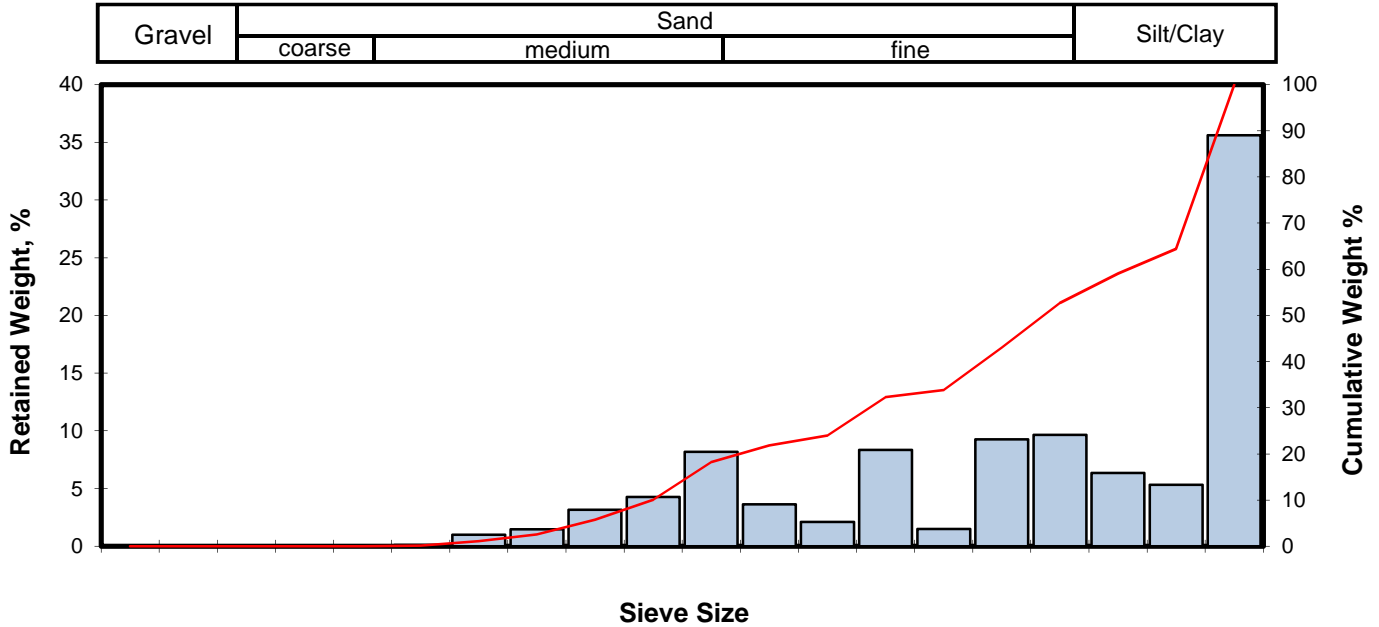
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.00	0.0394	1.000
10	0.51	0.0276	0.701
16	0.98	0.0200	0.508
25	1.67	0.0123	0.314
40	3.10	0.0046	0.117
50	3.49	0.0035	0.089
60	3.90	0.0026	0.067
75	4.56	0.0017	0.043
84	3.70	0.0030	0.077
90	2.31	0.0079	0.201
95	1.16	0.0177	0.449

Measure	Trask	Inman	Folk-Ward
Median, phi	3.49	3.49	3.49
Median, in.	0.0035	0.0035	0.0035
Median, mm	0.089	0.089	0.089
Mean, phi	2.49	2.34	2.72
Mean, in.	0.0070	0.0078	0.0060
Mean, mm	0.178	0.198	0.151
Sorting	2.716	1.361	0.855
Skewness	1.301	-0.850	-2.948
Kurtosis	0.272	-0.575	0.164
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.18
Medium Sand	40	18.99
Fine Sand	200	37.33
Silt/Clay	<200	43.49
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M210-65.0-65.5
 Depth, ft: 65.0-65.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.25	0.12	0.12
0.0787	2.000	-1.00	10	2.05	1.01	1.13
0.0557	1.414	-0.50	14	2.97	1.46	2.59
0.0394	1.000	0.00	18	6.44	3.17	5.76
0.0278	0.707	0.50	25	8.68	4.27	10.03
0.0197	0.500	1.00	35	16.63	8.18	18.22
0.0166	0.420	1.25	40	7.41	3.65	21.87
0.0139	0.354	1.50	45	4.27	2.10	23.97
0.0098	0.250	2.00	60	16.95	8.34	32.31
0.0070	0.177	2.50	80	3.05	1.50	33.81
0.0049	0.125	3.00	120	18.82	9.26	43.07
0.0029	0.074	3.75	200	19.60	9.65	52.72
0.0021	0.053	4.25	270	12.93	6.36	59.08
0.0015	0.037	4.75	400	10.80	5.32	64.40
			PAN	72.34	35.60	100.00
TOTALS				203.19	100.00	100.00

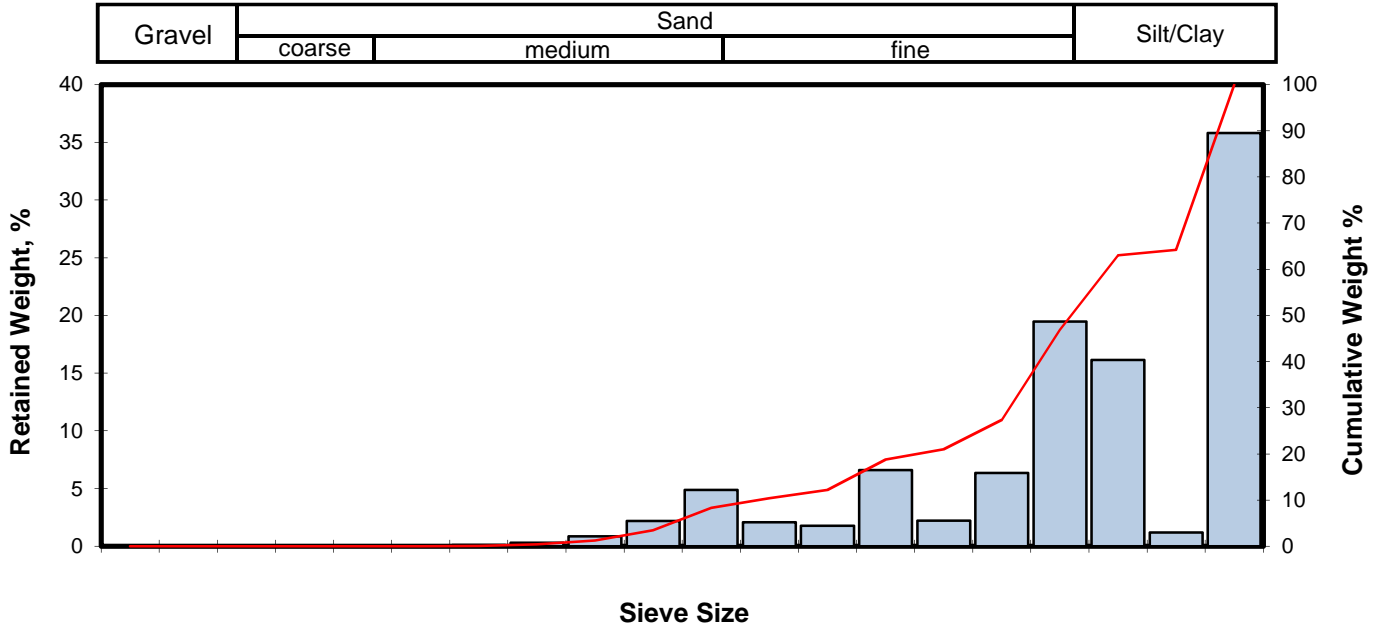
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.12	0.0428	1.087
10	0.50	0.0279	0.709
16	0.86	0.0216	0.549
25	1.56	0.0133	0.339
40	2.83	0.0055	0.140
50	3.54	0.0034	0.086
60	4.34	0.0019	0.050
75	3.34	0.0039	0.099
84	2.13	0.0090	0.228
90	1.33	0.0156	0.397
95	0.67	0.0248	0.630

Measure	Trask	Inman	Folk-Ward
Median, phi	3.54	3.54	3.54
Median, in.	0.0034	0.0034	0.0034
Median, mm	0.086	0.086	0.086
Mean, phi	2.19	1.50	2.18
Mean, in.	0.0086	0.0139	0.0087
Mean, mm	0.219	0.354	0.221
Sorting	1.849	0.635	0.437
Skewness	2.129	-3.210	-5.752
Kurtosis	0.383	-0.380	0.182
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	1.13
Medium Sand	40	20.73
Fine Sand	200	30.85
Silt/Clay	<200	47.28
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M210-77.3-77.8
 Depth, ft: 77.3-77.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.22	0.10	0.10
0.0557	1.414	-0.50	14	0.64	0.30	0.41
0.0394	1.000	0.00	18	1.84	0.87	1.28
0.0278	0.707	0.50	25	4.61	2.18	3.46
0.0197	0.500	1.00	35	10.30	4.88	8.34
0.0166	0.420	1.25	40	4.38	2.08	10.42
0.0139	0.354	1.50	45	3.73	1.77	12.19
0.0098	0.250	2.00	60	13.96	6.61	18.80
0.0070	0.177	2.50	80	4.70	2.23	21.03
0.0049	0.125	3.00	120	13.43	6.36	27.39
0.0029	0.074	3.75	200	41.08	19.46	46.86
0.0021	0.053	4.25	270	34.09	16.15	63.01
0.0015	0.037	4.75	400	2.52	1.19	64.20
			PAN	75.55	35.80	100.00
TOTALS				211.05	100.00	100.00

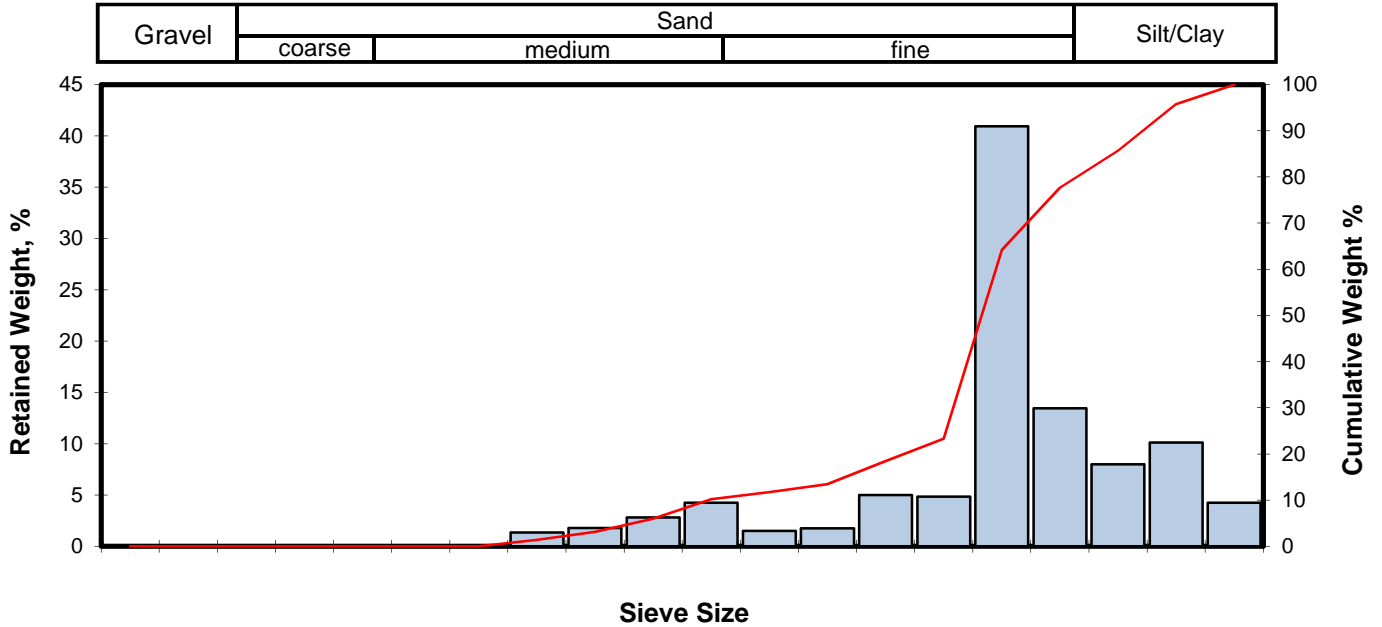
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.66	0.0250	0.634
10	1.20	0.0171	0.435
16	1.79	0.0114	0.290
25	2.81	0.0056	0.142
40	3.49	0.0035	0.089
50	3.85	0.0027	0.069
60	4.16	0.0022	0.056
75	3.32	0.0039	0.100
84	2.12	0.0090	0.230
90	1.33	0.0157	0.399
95	0.66	0.0249	0.631

Measure	Trask	Inman	Folk-Ward
Median, phi	3.85	3.85	3.85
Median, in.	0.0027	0.0027	0.0027
Median, mm	0.069	0.069	0.069
Mean, phi	3.04	1.96	2.59
Mean, in.	0.0048	0.0101	0.0066
Mean, mm	0.121	0.258	0.167
Sorting	1.191	0.167	0.085
Skewness	1.720	-11.300	-531.823
Kurtosis	0.571	-0.982	0.005
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.10
Medium Sand	40	10.32
Fine Sand	200	36.44
Silt/Clay	<200	53.14
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M212-42.8-43.3
 Depth, ft: 42.8-43.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	1.81	1.36	1.36
0.0394	1.000	0.00	18	2.37	1.78	3.14
0.0278	0.707	0.50	25	3.75	2.81	5.95
0.0197	0.500	1.00	35	5.68	4.26	10.21
0.0166	0.420	1.25	40	2.00	1.50	11.71
0.0139	0.354	1.50	45	2.32	1.74	13.45
0.0098	0.250	2.00	60	6.65	4.99	18.44
0.0070	0.177	2.50	80	6.45	4.84	23.27
0.0049	0.125	3.00	120	54.59	40.95	64.22
0.0029	0.074	3.75	200	17.94	13.46	77.68
0.0021	0.053	4.25	270	10.65	7.99	85.67
0.0015	0.037	4.75	400	13.47	10.10	95.77
			PAN	5.64	4.23	100.00
TOTALS				133.32	100.00	100.00

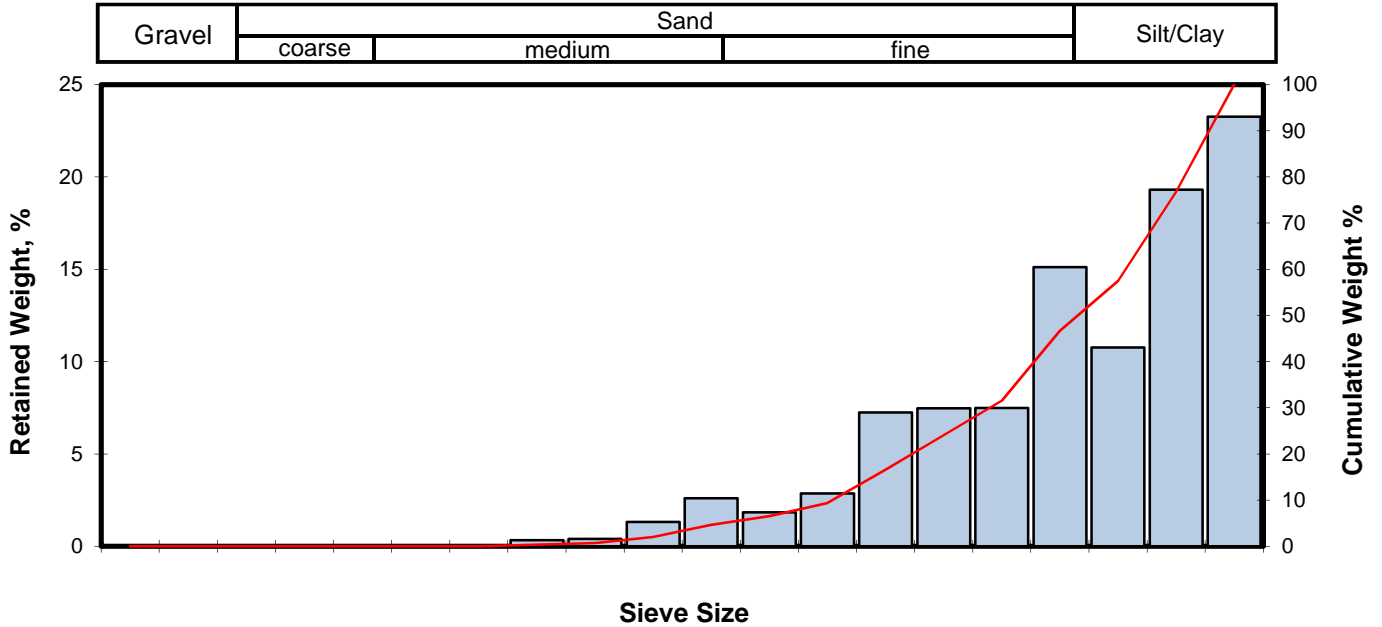
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.33	0.0313	0.795
10	0.98	0.0200	0.509
16	1.76	0.0117	0.296
25	2.52	0.0069	0.174
40	2.70	0.0060	0.153
50	2.83	0.0056	0.141
60	2.95	0.0051	0.130
75	3.60	0.0032	0.082
84	4.15	0.0022	0.056
90	4.46	0.0018	0.045
95	4.71	0.0015	0.038

Measure	Trask	Inman	Folk-Ward
Median, phi	2.83	2.83	2.83
Median, in.	0.0056	0.0056	0.0056
Median, mm	0.141	0.141	0.141
Mean, phi	2.96	2.95	2.91
Mean, in.	0.0051	0.0051	0.0052
Mean, mm	0.128	0.129	0.133
Sorting	1.454	1.195	1.261
Skewness	0.850	0.104	-0.018
Kurtosis	0.099	0.833	1.663
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	11.71
Fine Sand	200	65.97
Silt/Clay	<200	22.32
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M212-49.8-50.3
 Depth, ft: 49.8-50.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.32	0.32	0.32
0.0394	1.000	0.00	18	0.39	0.40	0.72
0.0278	0.707	0.50	25	1.30	1.32	2.04
0.0197	0.500	1.00	35	2.57	2.61	4.65
0.0166	0.420	1.25	40	1.82	1.85	6.49
0.0139	0.354	1.50	45	2.82	2.86	9.35
0.0098	0.250	2.00	60	7.14	7.24	16.59
0.0070	0.177	2.50	80	7.37	7.47	24.07
0.0049	0.125	3.00	120	7.39	7.49	31.56
0.0029	0.074	3.75	200	14.90	15.11	46.67
0.0021	0.053	4.25	270	10.62	10.77	57.44
0.0015	0.037	4.75	400	19.03	19.30	76.74
PAN				22.93	23.26	100.00
TOTALS				98.60	100.00	100.00

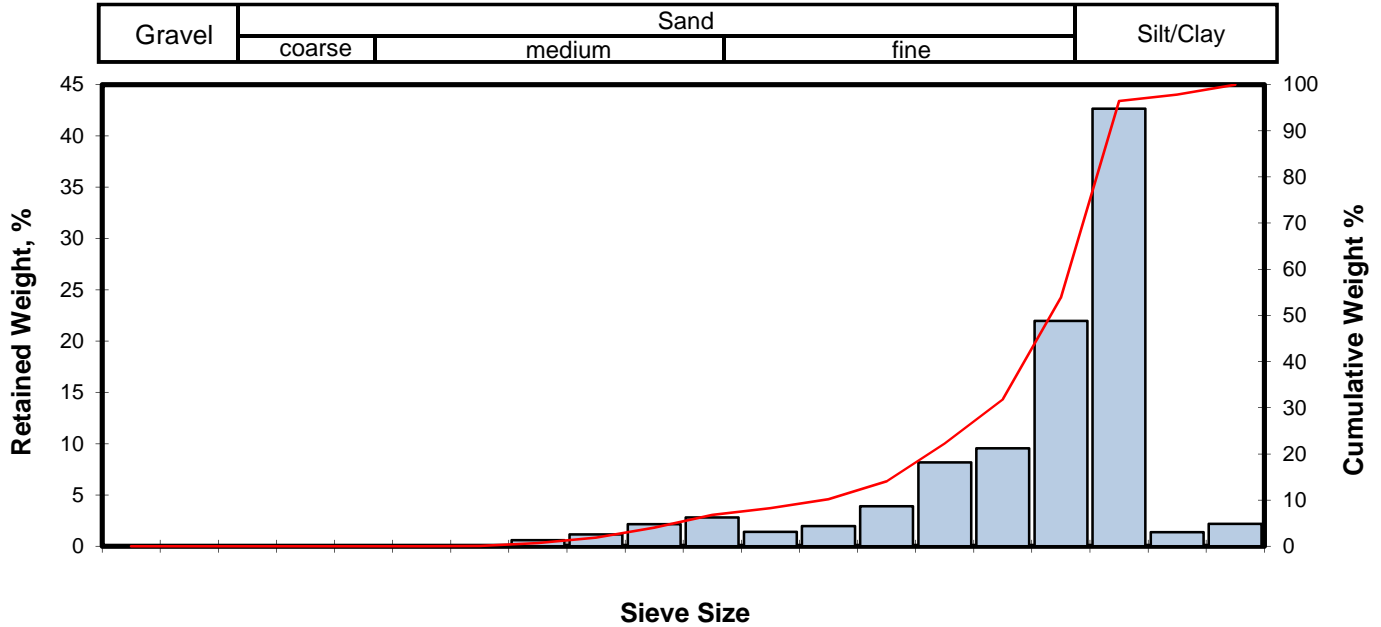
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.05	0.0190	0.484
10	1.54	0.0135	0.343
16	1.96	0.0101	0.257
25	2.56	0.0067	0.169
40	3.42	0.0037	0.094
50	3.90	0.0026	0.067
60	4.32	0.0020	0.050
75	4.70	0.0015	0.038
84	3.27	0.0041	0.104
90	2.04	0.0096	0.243
95	1.02	0.0194	0.493

Measure	Trask	Inman	Folk-Ward
Median, phi	3.90	3.90	3.90
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.067	0.067	0.067
Mean, phi	3.27	2.61	3.04
Mean, in.	0.0041	0.0064	0.0048
Mean, mm	0.104	0.163	0.121
Sorting	2.101	0.654	0.323
Skewness	1.207	-1.972	106.028
Kurtosis	0.655	-1.020	-0.005
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	6.49
Fine Sand	200	40.18
Silt/Clay	<200	53.33
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M212-60.1-60.6
 Depth, ft: 60.1-60.6



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.02	0.01	0.01
0.0787	2.000	-1.00	10	0.19	0.08	0.09
0.0557	1.414	-0.50	14	1.43	0.60	0.69
0.0394	1.000	0.00	18	2.75	1.16	1.85
0.0278	0.707	0.50	25	5.11	2.15	4.00
0.0197	0.500	1.00	35	6.69	2.82	6.83
0.0166	0.420	1.25	40	3.37	1.42	8.25
0.0139	0.354	1.50	45	4.68	1.97	10.22
0.0098	0.250	2.00	60	9.22	3.89	14.11
0.0070	0.177	2.50	80	19.39	8.17	22.28
0.0049	0.125	3.00	120	22.63	9.54	31.82
0.0029	0.074	3.75	200	52.07	21.95	53.77
0.0021	0.053	4.25	270	101.20	42.66	96.43
0.0015	0.037	4.75	400	3.24	1.37	97.80
			PAN	5.22	2.20	100.00
TOTALS				237.21	100.00	100.00

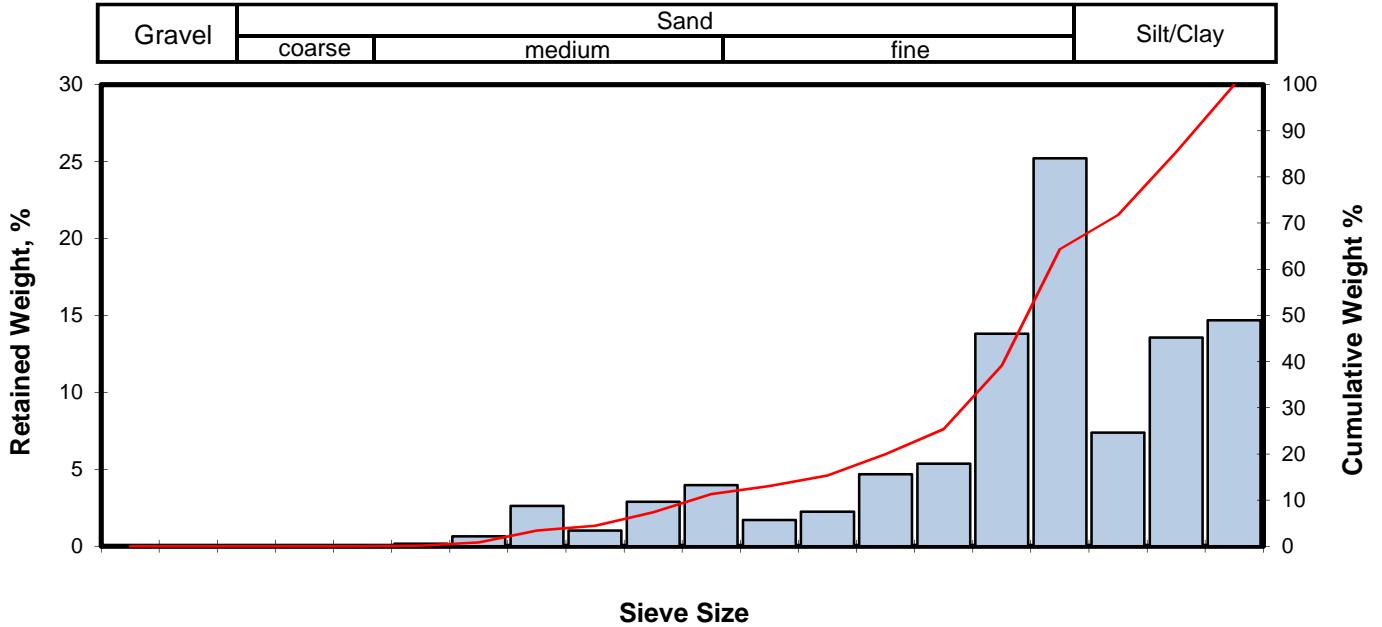
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.68	0.0246	0.626
10	1.47	0.0142	0.360
16	2.12	0.0091	0.231
25	2.64	0.0063	0.160
40	3.28	0.0041	0.103
50	3.62	0.0032	0.081
60	3.82	0.0028	0.071
75	4.00	0.0025	0.063
84	4.10	0.0023	0.058
90	4.17	0.0022	0.055
95	4.23	0.0021	0.053

Measure	Trask	Inman	Folk-Ward
Median, phi	3.62	3.62	3.62
Median, in.	0.0032	0.0032	0.0032
Median, mm	0.081	0.081	0.081
Mean, phi	3.17	3.11	3.28
Mean, in.	0.0044	0.0046	0.0041
Mean, mm	0.111	0.116	0.103
Sorting	1.600	0.994	1.036
Skewness	1.232	-0.514	-0.585
Kurtosis	0.160	0.789	1.075
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.09
Medium Sand	40	8.16
Fine Sand	200	45.53
Silt/Clay	<200	46.23
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M212-65.1-65.6
 Depth, ft: 65.1-65.6



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.31	0.16	0.16
0.0787	2.000	-1.00	10	1.26	0.65	0.81
0.0557	1.414	-0.50	14	5.07	2.62	3.44
0.0394	1.000	0.00	18	1.99	1.03	4.47
0.0278	0.707	0.50	25	5.60	2.90	7.36
0.0197	0.500	1.00	35	7.68	3.97	11.34
0.0166	0.420	1.25	40	3.31	1.71	13.05
0.0139	0.354	1.50	45	4.34	2.25	15.30
0.0098	0.250	2.00	60	9.06	4.69	19.99
0.0070	0.177	2.50	80	10.37	5.37	25.35
0.0049	0.125	3.00	120	26.67	13.80	39.16
0.0029	0.074	3.75	200	48.72	25.21	64.37
0.0021	0.053	4.25	270	14.26	7.38	71.75
0.0015	0.037	4.75	400	26.20	13.56	85.31
			PAN	28.38	14.69	100.00
TOTALS				193.22	100.00	100.00

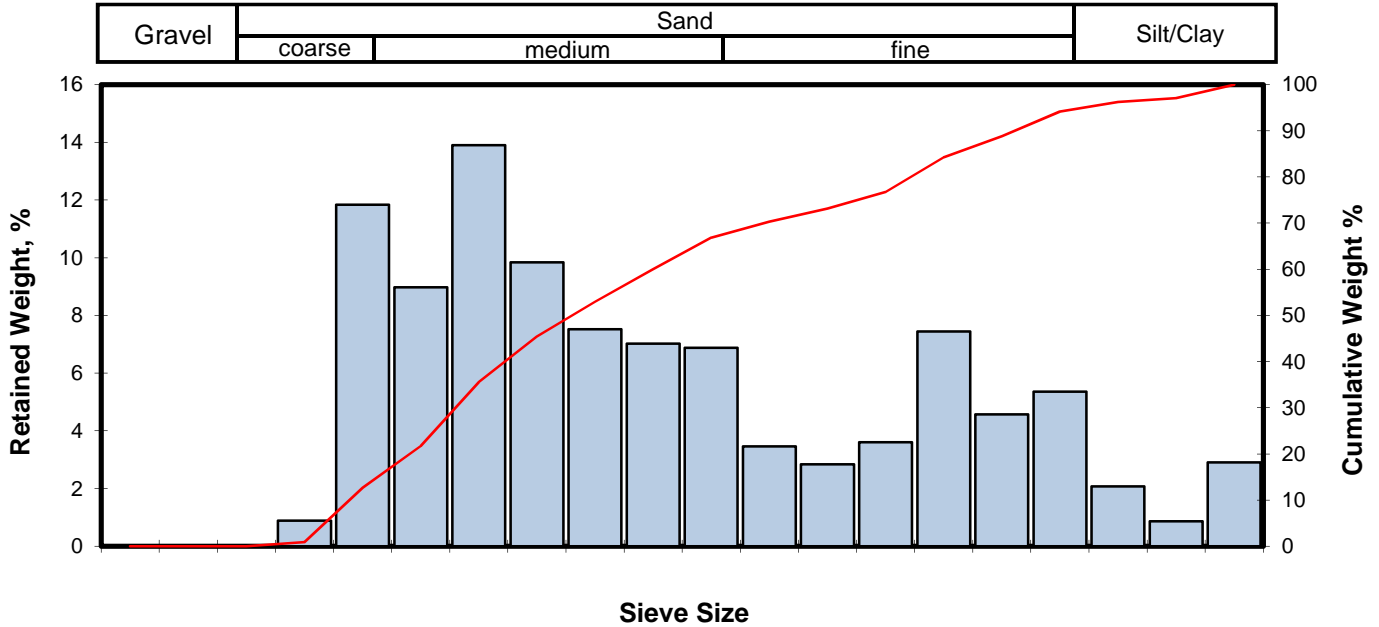
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.09	0.0369	0.938
10	0.83	0.0221	0.562
16	1.57	0.0132	0.336
25	2.47	0.0071	0.181
40	3.03	0.0048	0.123
50	3.32	0.0039	0.100
60	3.62	0.0032	0.081
75	4.37	0.0019	0.048
84	4.70	0.0015	0.038
90	3.23	0.0042	0.106
95	1.62	0.0128	0.326

Measure	Trask	Inman	Folk-Ward
Median, phi	3.32	3.32	3.32
Median, in.	0.0039	0.0039	0.0039
Median, mm	0.100	0.100	0.100
Mean, phi	3.13	3.14	3.20
Mean, in.	0.0045	0.0045	0.0043
Mean, mm	0.115	0.114	0.109
Sorting	1.934	1.563	1.013
Skewness	0.936	-0.118	-1.677
Kurtosis	0.145	-0.512	0.328
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.81
Medium Sand	40	12.24
Fine Sand	200	51.32
Silt/Clay	<200	35.63
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M213-24.7-25.0
 Depth, ft: 24.7-25.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	3.34	0.89	0.89
0.1873	4.757	-2.25	4	44.33	11.83	12.72
0.1324	3.364	-1.75	6	33.64	8.98	21.70
0.0787	2.000	-1.00	10	52.07	13.90	35.60
0.0557	1.414	-0.50	14	36.87	9.84	45.44
0.0394	1.000	0.00	18	28.17	7.52	52.96
0.0278	0.707	0.50	25	26.32	7.02	59.98
0.0197	0.500	1.00	35	25.79	6.88	66.87
0.0166	0.420	1.25	40	12.98	3.46	70.33
0.0139	0.354	1.50	45	10.66	2.85	73.17
0.0098	0.250	2.00	60	13.50	3.60	76.78
0.0070	0.177	2.50	80	27.90	7.45	84.22
0.0049	0.125	3.00	120	17.11	4.57	88.79
0.0029	0.074	3.75	200	20.07	5.36	94.15
0.0021	0.053	4.25	270	7.79	2.08	96.23
0.0015	0.037	4.75	400	3.25	0.87	97.09
PAN				10.89	2.91	100.00
TOTALS				374.68	100.00	100.00

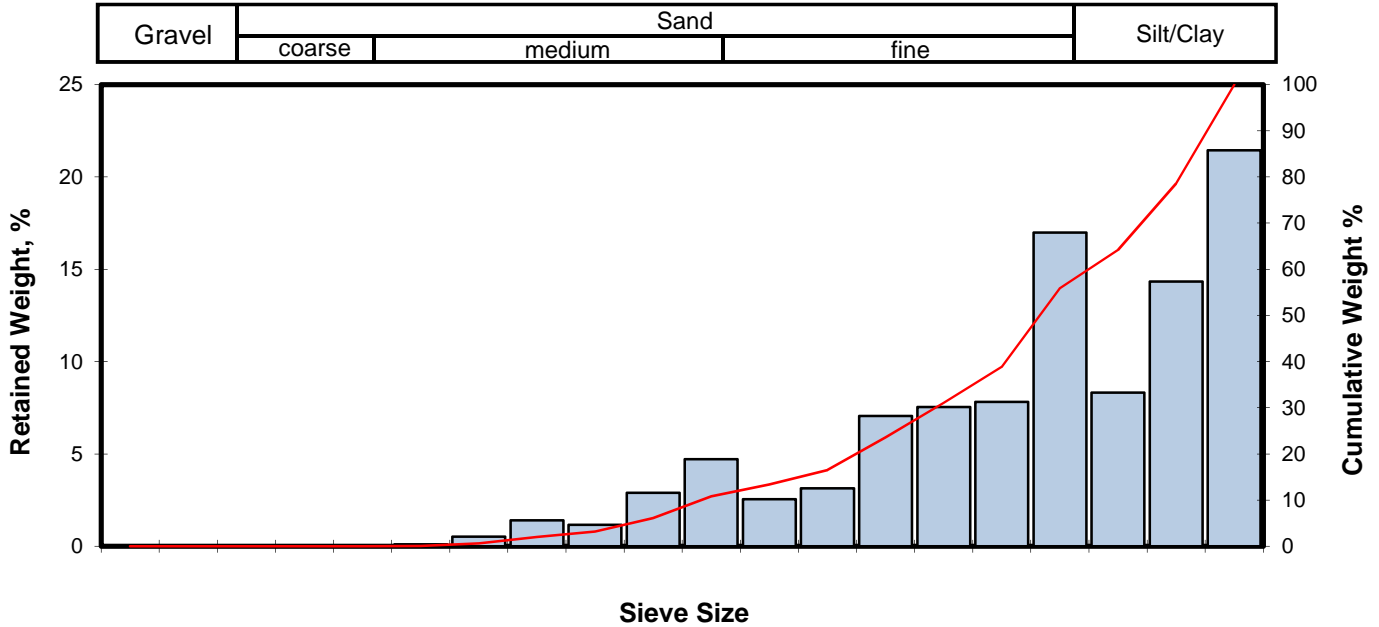
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.52	0.2262	5.745
10	-2.35	0.2002	5.084
16	-2.07	0.1650	4.192
25	-1.57	0.1171	2.973
40	-0.78	0.0674	1.713
50	-0.20	0.0451	1.146
60	0.50	0.0278	0.706
75	1.75	0.0117	0.297
84	2.48	0.0070	0.179
90	3.17	0.0044	0.111
95	3.96	0.0025	0.064

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.20	-0.20	-0.20
Median, in.	0.0451	0.0451	0.0451
Median, mm	1.146	1.146	1.146
Mean, phi	-0.71	0.21	0.07
Mean, in.	0.0644	0.0341	0.0374
Mean, mm	1.635	0.865	0.950
Sorting	3.166	2.276	2.120
Skewness	0.819	0.178	0.230
Kurtosis	0.269	0.423	0.798
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	12.72
Coarse Sand	10	22.88
Medium Sand	40	34.73
Fine Sand	200	23.82
Silt/Clay	<200	5.85
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M213-43.5-44.0
 Depth, ft: 43.5-44.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.15	0.10	0.10
0.0787	2.000	-1.00	10	0.76	0.52	0.63
0.0557	1.414	-0.50	14	2.03	1.40	2.02
0.0394	1.000	0.00	18	1.68	1.16	3.18
0.0278	0.707	0.50	25	4.20	2.89	6.07
0.0197	0.500	1.00	35	6.86	4.72	10.80
0.0166	0.420	1.25	40	3.71	2.55	13.35
0.0139	0.354	1.50	45	4.57	3.15	16.50
0.0098	0.250	2.00	60	10.24	7.05	23.55
0.0070	0.177	2.50	80	10.94	7.53	31.08
0.0049	0.125	3.00	120	11.36	7.82	38.90
0.0029	0.074	3.75	200	24.68	16.99	55.89
0.0021	0.053	4.25	270	12.09	8.32	64.22
0.0015	0.037	4.75	400	20.83	14.34	78.56
PAN				31.14	21.44	100.00
TOTALS				145.24	100.00	100.00

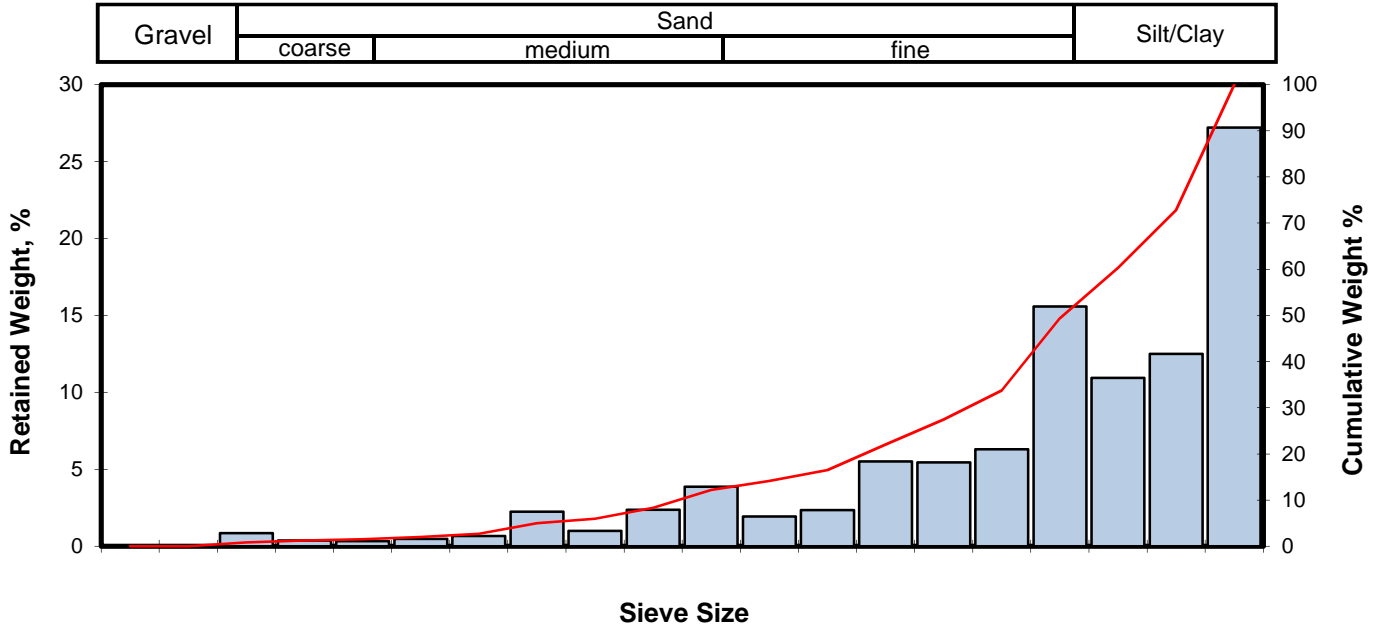
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.31	0.0317	0.804
10	0.92	0.0209	0.530
16	1.46	0.0143	0.363
25	2.10	0.0092	0.234
40	3.05	0.0048	0.121
50	3.49	0.0035	0.089
60	4.00	0.0025	0.063
75	4.63	0.0016	0.041
84	3.54	0.0034	0.086
90	2.22	0.0085	0.215
95	1.11	0.0183	0.464

Measure	Trask	Inman	Folk-Ward
Median, phi	3.49	3.49	3.49
Median, in.	0.0035	0.0035	0.0035
Median, mm	0.089	0.089	0.089
Mean, phi	2.87	2.50	2.83
Mean, in.	0.0054	0.0069	0.0055
Mean, mm	0.137	0.176	0.140
Sorting	2.403	1.042	0.641
Skewness	1.093	-0.947	-3.977
Kurtosis	0.307	-0.619	0.129
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.63
Medium Sand	40	12.72
Fine Sand	200	42.54
Silt/Clay	<200	44.11
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M213-54.5-55.0
 Depth, ft: 54.5-55.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	1.04	0.85	0.85
0.2500	6.351	-2.67	1/4	0.47	0.38	1.23
0.1873	4.757	-2.25	4	0.40	0.33	1.56
0.1324	3.364	-1.75	6	0.59	0.48	2.04
0.0787	2.000	-1.00	10	0.82	0.67	2.71
0.0557	1.414	-0.50	14	2.76	2.25	4.97
0.0394	1.000	0.00	18	1.22	1.00	5.96
0.0278	0.707	0.50	25	2.91	2.38	8.34
0.0197	0.500	1.00	35	4.73	3.86	12.20
0.0166	0.420	1.25	40	2.38	1.94	14.15
0.0139	0.354	1.50	45	2.88	2.35	16.50
0.0098	0.250	2.00	60	6.76	5.52	22.02
0.0070	0.177	2.50	80	6.66	5.44	27.47
0.0049	0.125	3.00	120	7.71	6.30	33.76
0.0029	0.074	3.75	200	19.08	15.59	49.35
0.0021	0.053	4.25	270	13.40	10.95	60.30
0.0015	0.037	4.75	400	15.31	12.51	72.80
PAN				33.29	27.20	100.00
TOTALS				122.41	100.00	100.00

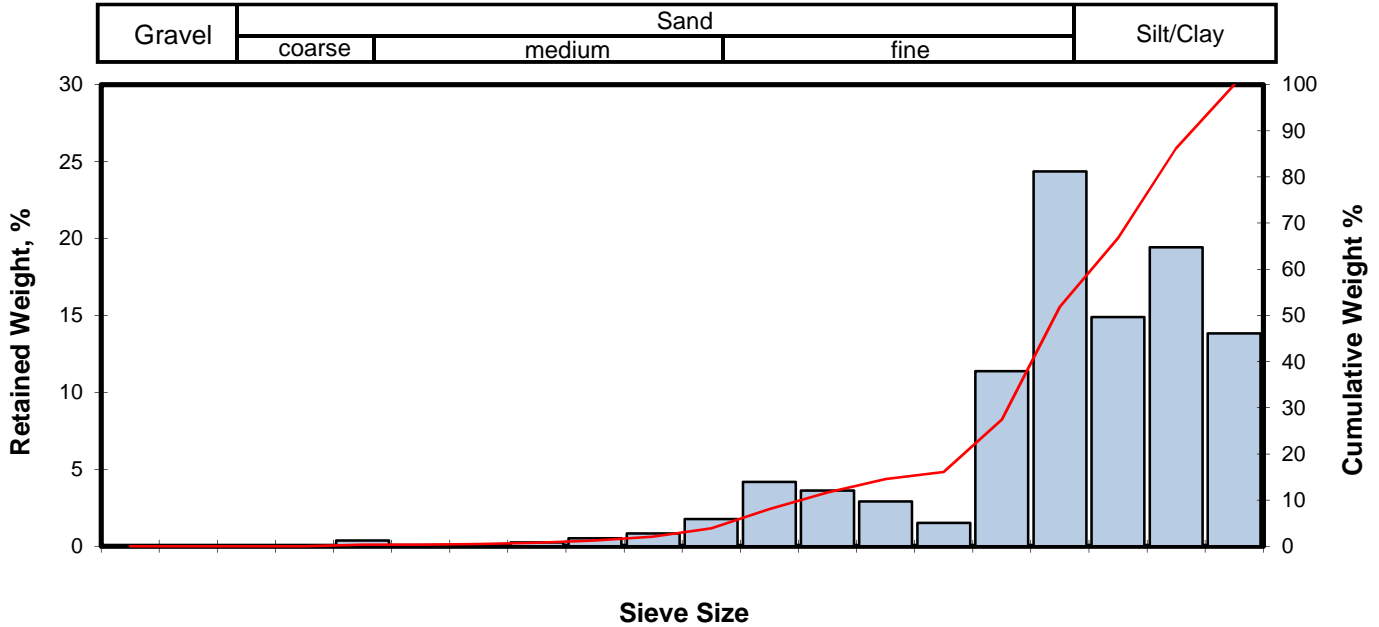
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.48	0.0550	1.398
10	0.71	0.0240	0.609
16	1.45	0.0144	0.367
25	2.27	0.0081	0.207
40	3.30	0.0040	0.102
50	3.78	0.0029	0.073
60	4.24	0.0021	0.053
75	4.37	0.0019	0.048
84	2.79	0.0057	0.144
90	1.75	0.0117	0.298
95	0.87	0.0215	0.546

Measure	Trask	Inman	Folk-Ward
Median, phi	3.78	3.78	3.78
Median, in.	0.0029	0.0029	0.0029
Median, mm	0.073	0.073	0.073
Mean, phi	2.97	2.12	2.67
Mean, in.	0.0050	0.0091	0.0062
Mean, mm	0.128	0.230	0.157
Sorting	2.066	0.674	0.543
Skewness	1.375	-2.462	-3.873
Kurtosis	0.254	0.007	0.266
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	1.56
Coarse Sand	10	1.15
Medium Sand	40	11.44
Fine Sand	200	35.20
Silt/Clay	<200	50.65
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M213-65.3-65.8
 Depth, ft: 65.3-65.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.92	0.38	0.38
0.1324	3.364	-1.75	6	0.00	0.00	0.38
0.0787	2.000	-1.00	10	0.25	0.10	0.48
0.0557	1.414	-0.50	14	0.62	0.26	0.74
0.0394	1.000	0.00	18	1.26	0.52	1.26
0.0278	0.707	0.50	25	2.04	0.84	2.10
0.0197	0.500	1.00	35	4.30	1.77	3.86
0.0166	0.420	1.25	40	10.15	4.18	8.04
0.0139	0.354	1.50	45	8.80	3.62	11.66
0.0098	0.250	2.00	60	7.09	2.92	14.58
0.0070	0.177	2.50	80	3.69	1.52	16.10
0.0049	0.125	3.00	120	27.65	11.38	27.48
0.0029	0.074	3.75	200	59.19	24.36	51.85
0.0021	0.053	4.25	270	36.18	14.89	66.74
0.0015	0.037	4.75	400	47.22	19.44	86.17
PAN				33.59	13.83	100.00
TOTALS				242.95	100.00	100.00

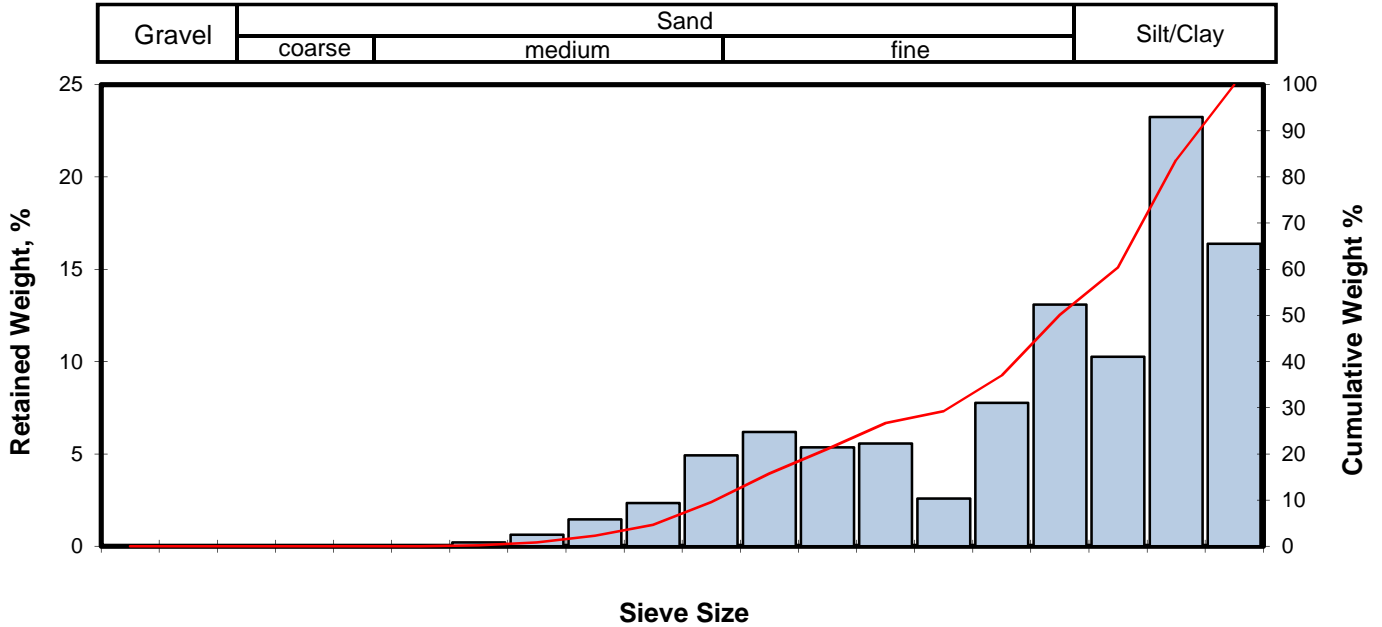
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.07	0.0188	0.477
10	1.39	0.0151	0.383
16	2.47	0.0071	0.181
25	2.89	0.0053	0.135
40	3.39	0.0038	0.096
50	3.69	0.0030	0.077
60	4.02	0.0024	0.061
75	4.46	0.0018	0.045
84	4.69	0.0015	0.039
90	3.44	0.0036	0.092
95	1.72	0.0120	0.304

Measure	Trask	Inman	Folk-Ward
Median, phi	3.69	3.69	3.69
Median, in.	0.0030	0.0030	0.0030
Median, mm	0.077	0.077	0.077
Mean, phi	3.47	3.58	3.62
Mean, in.	0.0035	0.0033	0.0032
Mean, mm	0.090	0.084	0.081
Sorting	1.724	1.114	0.655
Skewness	1.011	-0.101	-3.590
Kurtosis	0.154	-0.708	0.169
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.38
Coarse Sand	10	0.10
Medium Sand	40	7.56
Fine Sand	200	43.80
Silt/Clay	<200	48.15
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M213-86.5-87.0
 Depth, ft: 86.5-87.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.44	0.21	0.21
0.0557	1.414	-0.50	14	1.27	0.62	0.83
0.0394	1.000	0.00	18	2.99	1.46	2.29
0.0278	0.707	0.50	25	4.80	2.34	4.63
0.0197	0.500	1.00	35	10.10	4.92	9.55
0.0166	0.420	1.25	40	12.71	6.19	15.74
0.0139	0.354	1.50	45	11.01	5.36	21.10
0.0098	0.250	2.00	60	11.43	5.57	26.67
0.0070	0.177	2.50	80	5.30	2.58	29.25
0.0049	0.125	3.00	120	15.94	7.76	37.02
0.0029	0.074	3.75	200	26.88	13.09	50.11
0.0021	0.053	4.25	270	21.07	10.26	60.37
0.0015	0.037	4.75	400	47.73	23.25	83.62
PAN				33.62	16.38	100.00
TOTALS				205.29	100.00	100.00

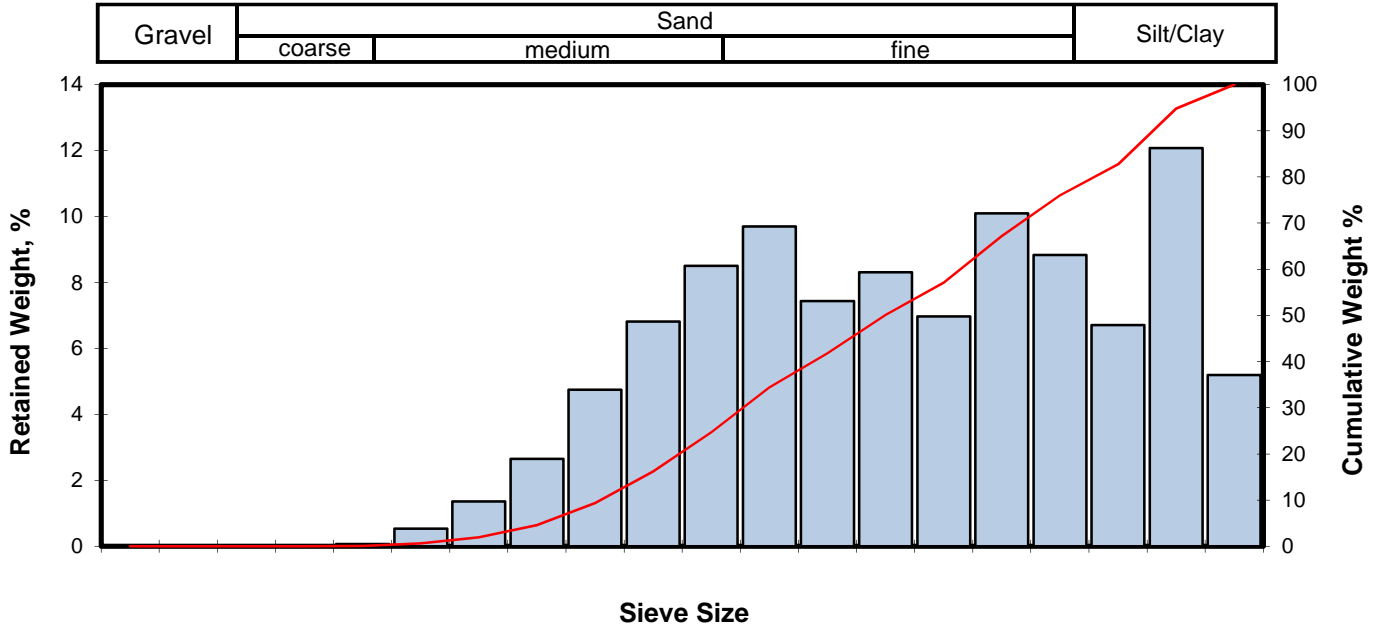
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.54	0.0271	0.689
10	1.02	0.0194	0.494
16	1.26	0.0164	0.417
25	1.85	0.0109	0.277
40	3.17	0.0044	0.111
50	3.74	0.0029	0.075
60	4.23	0.0021	0.053
75	4.56	0.0017	0.042
84	4.64	0.0016	0.040
90	2.90	0.0053	0.134
95	1.45	0.0144	0.366

Measure	Trask	Inman	Folk-Ward
Median, phi	3.74	3.74	3.74
Median, in.	0.0029	0.0029	0.0029
Median, mm	0.075	0.075	0.075
Mean, phi	2.65	2.95	3.22
Mean, in.	0.0063	0.0051	0.0042
Mean, mm	0.160	0.129	0.108
Sorting	2.562	1.689	0.983
Skewness	1.450	-0.469	-3.248
Kurtosis	0.327	-0.730	0.138
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.21
Medium Sand	40	15.52
Fine Sand	200	34.37
Silt/Clay	<200	49.89
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M213-93.5-94.0
 Depth, ft: 93.5-94.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.13	0.07	0.07
0.1324	3.364	-1.75	6	1.05	0.54	0.61
0.0787	2.000	-1.00	10	2.64	1.36	1.96
0.0557	1.414	-0.50	14	5.16	2.65	4.61
0.0394	1.000	0.00	18	9.25	4.75	9.36
0.0278	0.707	0.50	25	13.28	6.82	16.18
0.0197	0.500	1.00	35	16.57	8.51	24.68
0.0166	0.420	1.25	40	18.88	9.69	34.37
0.0139	0.354	1.50	45	14.49	7.44	41.81
0.0098	0.250	2.00	60	16.18	8.31	50.12
0.0070	0.177	2.50	80	13.58	6.97	57.09
0.0049	0.125	3.00	120	19.66	10.09	67.18
0.0029	0.074	3.75	200	17.21	8.83	76.02
0.0021	0.053	4.25	270	13.07	6.71	82.73
0.0015	0.037	4.75	400	23.53	12.08	94.80
PAN				10.12	5.20	100.00
TOTALS				194.80	100.00	100.00

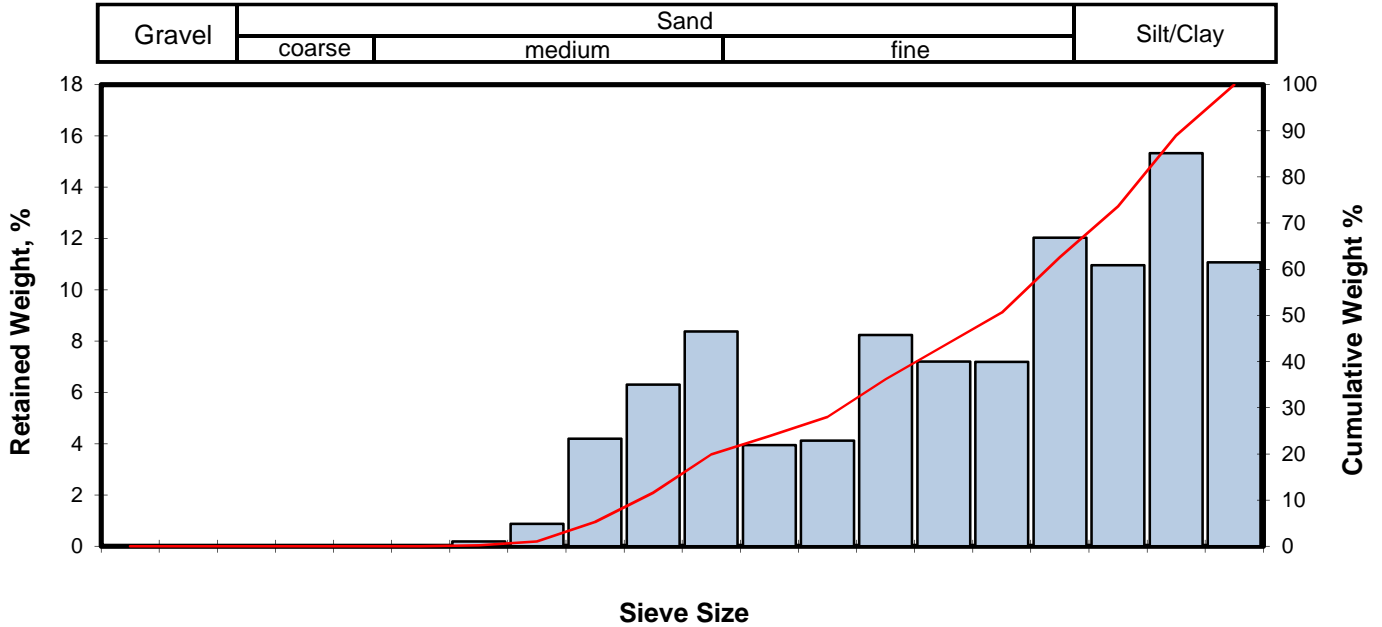
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.46	0.0541	1.375
10	0.05	0.0381	0.968
16	0.49	0.0281	0.713
25	1.01	0.0196	0.497
40	1.44	0.0145	0.369
50	1.99	0.0099	0.251
60	2.64	0.0063	0.160
75	3.66	0.0031	0.079
84	4.30	0.0020	0.051
90	4.55	0.0017	0.043
95	4.57	0.0017	0.042

Measure	Trask	Inman	Folk-Ward
Median, phi	1.99	1.99	1.99
Median, in.	0.0099	0.0099	0.0099
Median, mm	0.251	0.251	0.251
Mean, phi	1.80	2.39	2.26
Mean, in.	0.0113	0.0075	0.0082
Mean, mm	0.288	0.190	0.209
Sorting	2.510	1.908	1.716
Skewness	0.788	0.211	0.118
Kurtosis	0.226	0.318	0.776
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.07
Coarse Sand	10	1.89
Medium Sand	40	32.41
Fine Sand	200	41.64
Silt/Clay	<200	23.98
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M213-105.0-105.5
 Depth, ft: 105.0-105.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.24	0.19	0.19
0.0557	1.414	-0.50	14	1.09	0.88	1.07
0.0394	1.000	0.00	18	5.21	4.19	5.26
0.0278	0.707	0.50	25	7.83	6.30	11.56
0.0197	0.500	1.00	35	10.41	8.37	19.93
0.0166	0.420	1.25	40	4.90	3.94	23.87
0.0139	0.354	1.50	45	5.12	4.12	27.99
0.0098	0.250	2.00	60	10.24	8.24	36.23
0.0070	0.177	2.50	80	8.95	7.20	43.42
0.0049	0.125	3.00	120	8.94	7.19	50.62
0.0029	0.074	3.75	200	14.95	12.02	62.64
0.0021	0.053	4.25	270	13.63	10.96	73.60
0.0015	0.037	4.75	400	19.05	15.32	88.92
PAN				13.77	11.08	100.00
TOTALS				124.33	100.00	100.00

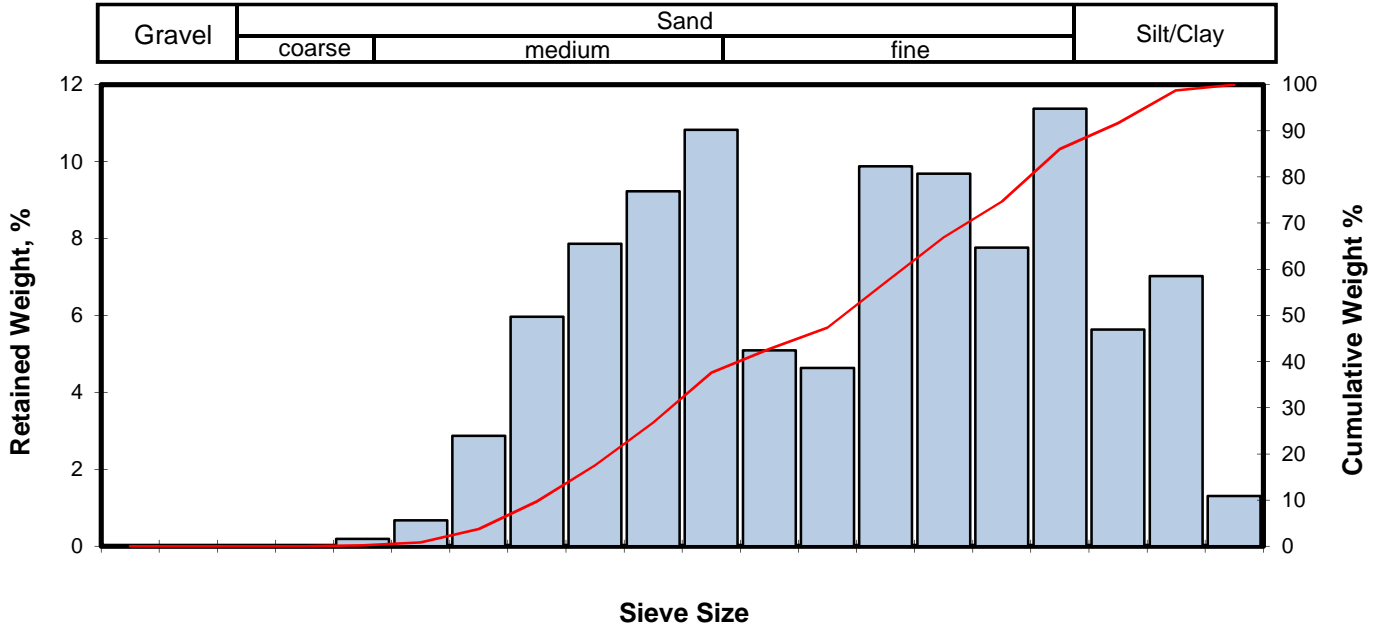
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.03	0.0402	1.022
10	0.38	0.0303	0.770
16	0.77	0.0232	0.588
25	1.32	0.0158	0.401
40	2.26	0.0082	0.208
50	2.96	0.0051	0.129
60	3.59	0.0033	0.083
75	4.30	0.0020	0.051
84	4.59	0.0016	0.042
90	4.29	0.0020	0.051
95	2.14	0.0089	0.226

Measure	Trask	Inman	Folk-Ward
Median, phi	2.96	2.96	2.96
Median, in.	0.0051	0.0051	0.0051
Median, mm	0.129	0.129	0.129
Mean, phi	2.15	2.68	2.77
Mean, in.	0.0089	0.0062	0.0058
Mean, mm	0.226	0.156	0.147
Sorting	2.806	1.912	1.286
Skewness	1.110	-0.146	-0.947
Kurtosis	0.243	-0.431	0.299
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.19
Medium Sand	40	23.68
Fine Sand	200	38.77
Silt/Clay	<200	37.36
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M244-95.5-96.0
 Depth, ft: 95.5-96.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.35	0.19	0.19
0.1324	3.364	-1.75	6	1.23	0.67	0.87
0.0787	2.000	-1.00	10	5.24	2.87	3.73
0.0557	1.414	-0.50	14	10.89	5.96	9.70
0.0394	1.000	0.00	18	14.35	7.86	17.56
0.0278	0.707	0.50	25	16.85	9.23	26.78
0.0197	0.500	1.00	35	19.76	10.82	37.60
0.0166	0.420	1.25	40	9.30	5.09	42.70
0.0139	0.354	1.50	45	8.46	4.63	47.33
0.0098	0.250	2.00	60	18.03	9.87	57.20
0.0070	0.177	2.50	80	17.69	9.69	66.89
0.0049	0.125	3.00	120	14.18	7.77	74.66
0.0029	0.074	3.75	200	20.77	11.37	86.03
0.0021	0.053	4.25	270	10.29	5.63	91.67
0.0015	0.037	4.75	400	12.83	7.03	98.69
PAN				2.39	1.31	100.00
TOTALS				182.61	100.00	100.00

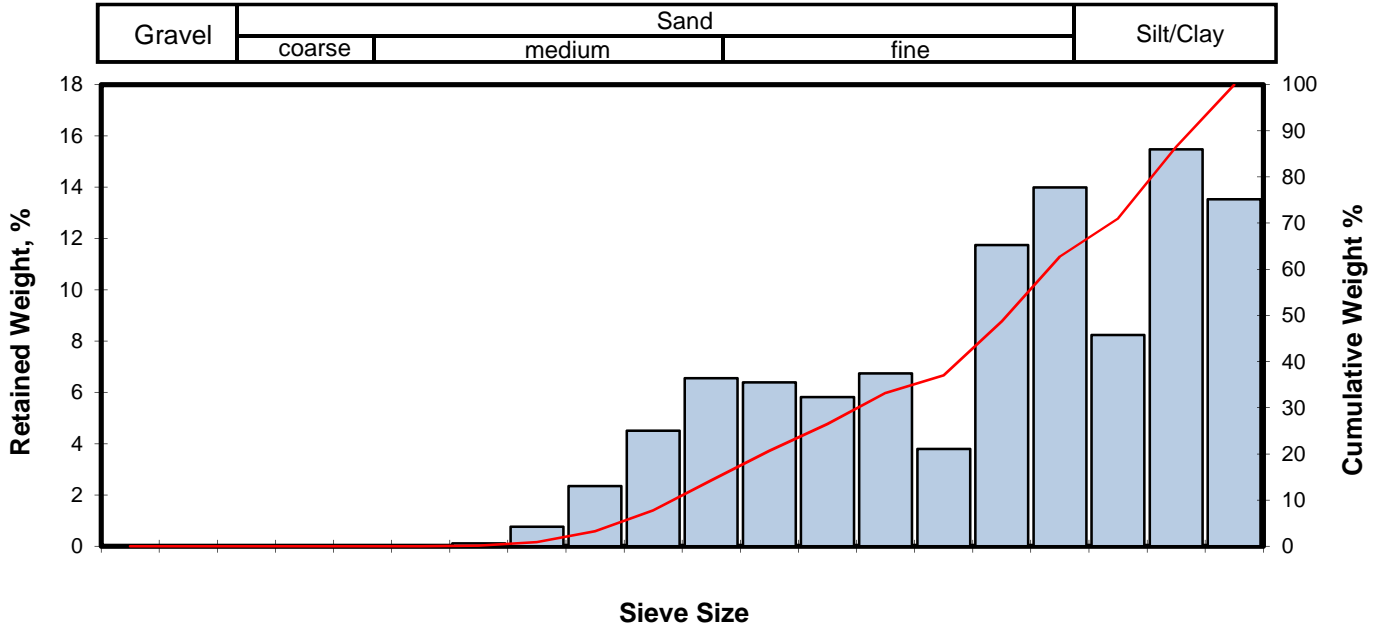
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.89	0.0732	1.858
10	-0.48	0.0549	1.396
16	-0.10	0.0422	1.071
25	0.40	0.0298	0.756
40	1.12	0.0181	0.461
50	1.64	0.0127	0.322
60	2.14	0.0089	0.226
75	3.02	0.0048	0.123
84	3.62	0.0032	0.082
90	4.10	0.0023	0.058
95	4.49	0.0018	0.045

Measure	Trask	Inman	Folk-Ward
Median, phi	1.64	1.64	1.64
Median, in.	0.0127	0.0127	0.0127
Median, mm	0.322	0.322	0.322
Mean, phi	1.19	1.76	1.72
Mean, in.	0.0173	0.0116	0.0120
Mean, mm	0.440	0.296	0.304
Sorting	2.479	1.858	1.744
Skewness	0.947	0.066	0.063
Kurtosis	0.237	0.448	0.842
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.19
Coarse Sand	10	3.54
Medium Sand	40	38.96
Fine Sand	200	43.33
Silt/Clay	<200	13.97
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M244-113.5-114.0
 Depth, ft: 113.5-114.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.06	0.03	0.03
0.0787	2.000	-1.00	10	0.28	0.12	0.14
0.0557	1.414	-0.50	14	1.80	0.76	0.90
0.0394	1.000	0.00	18	5.57	2.34	3.25
0.0278	0.707	0.50	25	10.70	4.50	7.75
0.0197	0.500	1.00	35	15.56	6.55	14.30
0.0166	0.420	1.25	40	15.17	6.38	20.68
0.0139	0.354	1.50	45	13.81	5.81	26.50
0.0098	0.250	2.00	60	16.02	6.74	33.24
0.0070	0.177	2.50	80	9.01	3.79	37.03
0.0049	0.125	3.00	120	27.89	11.74	48.77
0.0029	0.074	3.75	200	33.23	13.99	62.76
0.0021	0.053	4.25	270	19.58	8.24	71.00
0.0015	0.037	4.75	400	36.76	15.47	86.47
PAN				32.15	13.53	100.00
TOTALS				237.59	100.00	100.00

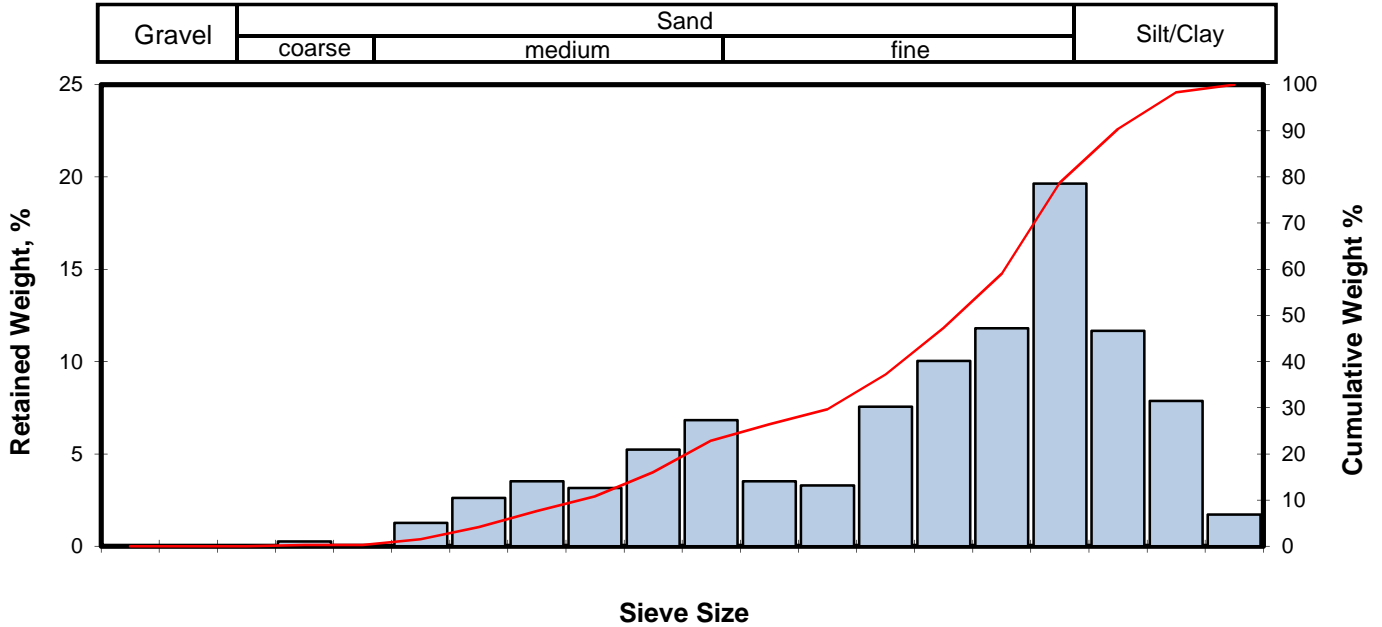
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.19	0.0344	0.874
10	0.67	0.0247	0.628
16	1.07	0.0188	0.477
25	1.44	0.0146	0.370
40	2.63	0.0064	0.162
50	3.07	0.0047	0.119
60	3.60	0.0032	0.082
75	4.38	0.0019	0.048
84	4.67	0.0015	0.039
90	3.51	0.0035	0.088
95	1.76	0.0117	0.296

Measure	Trask	Inman	Folk-Ward
Median, phi	3.07	3.07	3.07
Median, in.	0.0047	0.0047	0.0047
Median, mm	0.119	0.119	0.119
Mean, phi	2.26	2.87	2.93
Mean, in.	0.0082	0.0054	0.0052
Mean, mm	0.209	0.137	0.131
Sorting	2.774	1.802	1.137
Skewness	1.116	-0.110	-1.395
Kurtosis	0.298	-0.567	0.217
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.14
Medium Sand	40	20.54
Fine Sand	200	42.07
Silt/Clay	<200	37.24
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47270
 Sample ID: PT-M244-126.5-127.0
 Depth, ft: 126.5-127.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.35	0.26	0.26
0.1873	4.757	-2.25	4	0.00	0.00	0.26
0.1324	3.364	-1.75	6	1.72	1.27	1.53
0.0787	2.000	-1.00	10	3.54	2.61	4.14
0.0557	1.414	-0.50	14	4.76	3.51	7.66
0.0394	1.000	0.00	18	4.27	3.15	10.81
0.0278	0.707	0.50	25	7.09	5.23	16.04
0.0197	0.500	1.00	35	9.25	6.83	22.87
0.0166	0.420	1.25	40	4.77	3.52	26.39
0.0139	0.354	1.50	45	4.47	3.30	29.69
0.0098	0.250	2.00	60	10.24	7.56	37.25
0.0070	0.177	2.50	80	13.60	10.04	47.29
0.0049	0.125	3.00	120	15.99	11.81	59.10
0.0029	0.074	3.75	200	26.60	19.64	78.74
0.0021	0.053	4.25	270	15.80	11.66	90.40
0.0015	0.037	4.75	400	10.67	7.88	98.28
PAN				2.33	1.72	100.00
TOTALS				135.45	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.88	0.0723	1.838
10	-0.13	0.0430	1.093
16	0.50	0.0279	0.709
25	1.15	0.0177	0.450
40	2.14	0.0090	0.227
50	2.61	0.0064	0.163
60	3.03	0.0048	0.122
75	3.61	0.0032	0.082
84	3.98	0.0025	0.064
90	4.23	0.0021	0.053
95	4.54	0.0017	0.043

Measure	Trask	Inman	Folk-Ward
Median, phi	2.61	2.61	2.61
Median, in.	0.0064	0.0064	0.0064
Median, mm	0.163	0.163	0.163
Mean, phi	1.91	2.24	2.36
Mean, in.	0.0105	0.0084	0.0077
Mean, mm	0.266	0.212	0.195
Sorting	2.343	1.740	1.691
Skewness	1.177	-0.218	-0.253
Kurtosis	0.177	0.558	0.904
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.26
Coarse Sand	10	3.88
Medium Sand	40	22.25
Fine Sand	200	52.34
Silt/Clay	<200	21.26
Total		100

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-RIDB16-51.4-51.8	51.4-51.8	20180111	79.80	36.70	43.1	MH	MH elastic silt with sand	---
PT-RIDB16-54.5-55.0	54.5-55.0	20180111	106.6	20.0	86.6	CH	CH fat clay with sand	---
PT-RIDB16-74.5-74.8	74.5-74.8	20180111	113.0	21.6	91.4	CH	CH fat clay with sand	---
PT-RIDB29-68.5-68.8	68.5-68.8	20180111	89.8	28.7	61.1	CH	SC clayey sand	---
PT-RIDB29-77.8-78.3	77.8-78.3	20180111	70.8	19.5	51.3	CH	SC clayey sand	---
PT-RIDB29-81.5-81.8	81.5-81.8	20180111	24.0	NON-PLASTIC		NP	MH elastic silt with sand	---
PT-RI12-52.4-52.9	52.4-52.9	20180111	95.0	22.4	72.6	CH	SC clayey sand	---
PT-RI12-65.3-65.9	65.3-65.9	20180111	129.5	21.4	108.1	CH	SC clayey sand	---
PT-RI12-73.5-73.8	73.5-73.8	20180111	116.9	25.0	91.9	CH	SC clayey sand	---
PT-RI12-102.0-102.6	102.0-102.6	20180111	73.8	18.6	55.2	CH	SC clayey sand	---
PT-RI12-127.0-127.3	127.0-127.3	20180111	81.8	25.4	56.4	CH	SC clayey sand	---
PT-RI12-145.7-146.0	145.7-146.0	20180111	62.2	19.7	42.5	CH	CL lean clay sand	---
PT-RI13-76.3-76.8	76.3-76.8	20180111	34.9	19.6	15.3	CL	SC clayey sand	---
PT-RI13-84.5-85.0	84.5-85.0	20180111	121.6	22.4	99.2	CH	SC clayey sand	---
PT-RI13-107.0-107.7	107.0-107.7	20180111	81.2	20.5	60.7	CH	SC clayey sand	---
PT-RI13-117.5-118.0	117.5-118.0	20180111	42.7	17.7	25.0	CL	SC clayey sand	---
PT-RI13-142.4-143.0	142.4-143.0	20180112	102.8	24.0	78.8	CH	SC clayey sand	---
PT-RI27-46.0-46.3	46.0-46.3	20180112	33.4	18.5	14.9	CL	SC clayey sand	---
PT-RI27-60.5-60.8	60.5-60.8	20180112	20.0	NON-PLASTIC		NP	SW-SM well-graded sand with silt	---
PT-RI27-74.0-74.3	74.0-74.3	20180112	25.8	NON-PLASTIC		NP	SC clayey sand	---
PT-RI27-97.5-97.8	97.5-97.8	20180112	23.0	NON-PLASTIC		NP	SC clayey sand	---
PT-M204-23.0-23.3	23.0-23.3	20180112	22.5	NON-PLASTIC		NP	SP poorly-graded sand	---

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-M204-31.0-31.3	31.0-31.3	20180112	74.6	27.5	47.1	CH	SC clayey sand	---
PT-M204-38.5-38.8	38.5-38.8	20180115	92.6	21.2	71.4	CH	SW-SC well-graded sand with clay	---
PT-M204-41.2-41.5	41.2-41.5	20180115	48.6	21.4	27.2	CL	SC clayey sand	---
PT-M204-46.0-46.5	46.0-46.5	20180115	47.9	19.9	28.0	CL	SC clayey sand	---
PT-M204-53.5-53.8	53.5-53.8	20180118	91.7	29.0	62.7	CH	SC clayey sand	---
PT-M204-63.5-64.0	63.5-64.0	20180118	100.8	26.1	74.7	CH	SP poorly-graded sand	---
PT-M204-74.0-74.3	74.0-74.3	20180118	96.7	21.4	75.3	CH	CH fat clay with sand	---
PT-M204-88.8-89.3	88.8-89.3	20180118	100.3	25.7	74.6	CH	SC clayey sand	---
PT-M204-108.2-108.7	108.2-108.7	20180118	110.5	27.5	83.0	CH	SC clayey sand	---

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.
 (2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.
 USCS: Unified Soil Classification System
 USDA: US Department of Agriculture
 SCS: Soil Conservation Service

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-M205-45.3-45.8	45.3-45.8	20180118	78.90	31.00	47.9	CH	SC clayey sand	---
PT-M206-21.5-21.8	21.5-21.8	20180118	28.5	NON-PLASTIC		NP	SC clayey sand	---
PT-M206-28.0-28.3	28.0-28.3	20180118	51.7	20.6	31.1	CH	SC clayey sand	---
PT-M206-30.0-30.5	30.0-30.5	20180121	53.6	21.3	32.3	CH	SC clayey sand	---
PT-M210-12.5-12.8	12.5-12.8	20180121	46.6	26.5	20.1	CL	SC clayey sand	---
PT-M210-26.5-26.8	26.5-26.8	20180121	39.0	NON-PLASTIC		NP	SM silty sand	---
PT-M210-35.5-36.0	35.5-36.0	20180121	61.4	30.2	31.2	CH	SC clayey sand	---
PT-M210-41.0-41.5	41.0-41.5	20180121	78.8	19.7	59.1	CH	SC clayey sand	---
PT-M210-53.3-53.8	53.3-53.8	20180121	53.4	20.2	33.2	CH	SC clayey sand	---
PT-M210-65.0-65.5	65.0-65.5	20180121	48.7	22.8	25.9	CL	SC clayey sand	---
PT-M210-77.3-77.8	77.3-77.8	20180121	55.2	17.9	37.3	CH	CH fat clay with sand	---
PT-M212-42.8-43.3	42.8-43.3	20180122	67.1	32.2	34.9	CH	SM silty sand	---
PT-M212-49.8-50.3	49.8-50.3	20180122	58.4	31.5	26.9	MH	MH elastic silt-sand	---
PT-M212-60.1-60.6	60.1-60.6	20180122	72.9	31.5	41.4	CH	SC clayey sand	---
PT-M212-65.1-65.6	65.1-65.6	20180122	53.6	22.1	31.5	CH	SC clayey sand	---
PT-M213-24.7-25.0	24.7-25.0	20180122	20.0	NON-PLASTIC		NP	SP-SM poorly-graded sand with silt	---
PT-M213-43.5-44.0	43.5-44.0	20180122	82.1	30.9	51.2	CH	SC clayey sand	---
PT-M213-54.5-55.0	54.5-55.0	20180122	50.8	22.7	28.1	CH	CH fat clay with sand	---
PT-M213-65.3-65.8	65.3-65.8	20180122	50.9	17.9	33.0	CH	SC clayey sand	---
PT-M213-86.5-87.0	86.5-87.0	20180122	86.8	20.7	66.1	CH	SC clayey sand	---
PT-M213-93.5-94.0	93.5-94.0	20180122	80.7	23.5	57.2	CH	SC clayey sand	---
PT-M213-105.0-105.5	105.0-105.5	20180122	86.8	20.1	66.7	CH	SC clayey sand	---
PT-M244-95.5-96.0	95.5-96.0	20180122	82.3	23.5	58.8	CH	SC clayey sand	---
PT-M244-113.5-114.0	113.5-114.0	20180122	83.3	20.7	62.6	CH	SC clayey sand	---

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-M244-126.5-127.0	126.5-127.0	20180122	51.3	20.7	30.6	CH	SC clayey sand	---

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.
 (2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.
 USCS: Unified Soil Classification System
 USDA: US Department of Agriculture
 SCS: Soil Conservation Service

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

WATER (MOISTURE) CONTENT OF SOIL OR ROCK BY MASS
 (Methodology: ASTM D 2216)

Project Name: NERT
 Project No: 21-41400C, PHASE M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	MATRIX	Tare WEIGHT, grams	WET SAMPLE and TARE grams	DRY SAMPLE and TARE grams	MOISTURE CONTENT, % dry weight
PT-RIDB16-51.4-51.8	51.4-51.8	20180113	1100	Soil	14.12	218.92	158.55	41.8
PT-RIDB16-54.5-55.0	54.5-55.0	20180113	1100	Soil	13.82	235.51	206.27	15.2
PT-RIDB16-74.5-74.8	74.5-74.8	20180113	1100	Soil	14.11	374.54	284.13	33.5
PT-RIDB29-77.8-78.3	77.8-78.3	20180113	1100	Soil	13.91	320.28	225.04	45.1
PT-RI12-52.4-52.9	52.4-52.9	20180113	1100	Soil	14.07	268.20	235.34	14.9
PT-RI12-65.3-65.9	65.3-65.9	20180113	1100	Soil	14.01	328.35	294.51	12.1
PT-RI12-102.0-102.6	102.0-102.6	20180113	1100	Soil	14.10	317.25	269.21	18.8
PT-RI12-127.0-127.3	127.0-127.3	20180113	1100	Soil	14.18	304.06	202.88	53.6
PT-RI12-145.7-146.0	145.7-146.0	20180113	1100	Soil	13.94	252.18	243.02	4.0
PT-RI13-76.3-76.8	76.3-76.8	20180113	1100	Soil	14.05	313.92	275.69	14.6
PT-RI13-84.5-85.0	84.5-85.0	20180113	1100	Soil	13.99	313.02	245.02	29.4
PT-RI13-107.0-107.7	107.0-107.7	20180113	1100	Soil	14.16	286.48	270.51	6.2
PT-RI13-117.5-118.0	117.5-118.0	20180113	1100	Soil	13.99	264.68	245.46	8.3
PT-RI13-142.4-143.0	142.4-143.0	20180113	1100	Soil	14.03	236.82	203.43	17.6
PT-M204-46.0-46.5	46.0-46.5	20180113	1100	Soil	14.00	333.42	247.30	36.9
PT-M204-63.5-64.0	63.5-64.0	20180113	1100	Soil	14.03	316.16	238.77	34.4
PT-M204-88.8-89.3	88.8-89.3	20180113	1100	Soil	13.95	315.19	206.53	56.4
PT-M204-108.2-108.7	108.2-108.7	20180113	1100	Soil	14.18	318.85	214.13	52.4
PT-M205-45.3-45.8	45.3-45.8	20180113	1100	Soil	14.12	251.08	138.25	90.9
PT-M206-30.0-30.5	30.0-30.5	20180113	1100	Soil	13.99	327.38	234.98	41.8
PT-M210-35.5-36.0	35.5-36.0	20180113	1100	Soil	14.18	298.70	198.59	54.3
PT-M210-41.0-41.5	41.0-41.5	20180113	1100	Soil	14.19	297.57	204.36	49.0
PT-M210-53.3-53.8	53.3-53.8	20180113	1100	Soil	14.09	323.60	213.16	55.5
PT-M210-65.0-65.5	65.0-65.5	20180113	1100	Soil	14.15	330.37	256.74	30.4
PT-M210-77.3-77.8	77.3-77.8	20180113	1100	Soil	14.05	320.41	245.49	32.4
PT-M212-42.8-43.3	42.8-43.3	20180113	1100	Soil	14.12	258.75	180.68	46.9
PT-M212-49.8-50.3	49.8-50.3	20180113	1100	Soil	14.22	268.56	179.68	53.7
PT-M212-60.1-60.6	60.1-60.6	20180113	1100	Soil	14.14	270.41	178.39	56.0
PT-M212-65.1-65.6	65.1-65.6	20180113	1100	Soil	13.98	287.82	209.32	40.2

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

WATER (MOISTURE) CONTENT OF SOIL OR ROCK BY MASS
 (Methodology: ASTM D 2216)

Project Name: NERT
 Project No: 21-41400C, PHASE M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	MATRIX	Tare WEIGHT, grams	WET SAMPLE and TARE grams	DRY SAMPLE and TARE grams	MOISTURE CONTENT, % dry weight
PT-M213-43.5-44.0	43.5-44.0	20180113	1100	Soil	13.94	254.44	162.36	62.0
PT-M213-54.5-55.0	54.5-55.0	20180113	1100	Soil	14.07	249.93	171.93	49.4
PT-M213-65.3-65.8	65.3-65.8	20180113	1100	Soil	14.11	286.52	221.84	31.14
PT-M213-86.5-87.0	86.5-87.0	20180113	1100	Soil	13.88	282.89	212.27	35.60
PT-M213-93.5-94.0	93.5-94.0	20180113	1100	Soil	14.20	280.43	196.81	45.79
PT-M213-105.0-105.5	105.0-105.5	20180113	1100	Soil	14.19	277.10	233.76	19.74
PT-M244-95.5-96.0	95.5-96.0	20180113	1100	Soil	13.99	260.42	167.29	60.75
PT-M244-113.5-114.0	113.5-114.0	20180113	1100	Soil	14.05	263.03	233.10	13.66
PT-M244-126.5-127.0	126.5-127.0	20180113	1100	Soil	13.95	273.82	178.56	57.87

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

DRY BULK DENSITY OF IN-PLACE SOIL
 (Methodology: ASTM D2937)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	TOTAL SAMPLE VOLUME, cc	MOISTURE CONTENT, % wt	VOLUMETRIC MOISTURE CONTENT, fraction Vb	DRY BULK DENSITY, g/cc
PT-RIDB16-51.4-51.8	51.4-51.8	20180104	200.67	41.8	0.301	0.72
PT-RIDB16-54.5-55.0	54.5-55.0	20180104	200.67	15.2	0.146	0.96
PT-RIDB16-74.5-74.8	74.5-74.8	20180104	200.67	33.5	0.451	1.35
PT-RIDB29-77.8-78.3	77.8-78.3	20180104	200.67	45.1	0.475	1.05
PT-RI12-52.4-52.9	52.4-52.9	20180104	200.67	14.9	0.164	1.10
PT-RI12-65.3-65.9	65.3-65.9	20180104	200.67	12.1	0.169	1.40
PT-RI12-102.0-102.6	102.0-102.6	20180104	200.67	18.8	0.240	1.27
PT-RI12-127.0-127.3	127.0-127.3	20180104	200.67	53.6	0.505	0.94
PT-RI12-145.7-146.0	145.7-146.0	20180104	200.67	4.0	0.046	1.14
PT-RI13-76.3-76.8	76.3-76.8	20180104	200.67	14.6	0.191	1.30
PT-RI13-84.5-85.0	84.5-85.0	20180104	200.67	29.4	0.339	1.15
PT-RI13-107.0-107.7	107.0-107.7	20180104	200.67	6.2	0.080	1.28
PT-RI13-117.5-118.0	117.5-118.0	20180104	200.67	8.3	0.096	1.15
PT-RI13-142.4-143.0	142.4-143.0	20180104	200.67	17.6	0.167	0.94
PT-M204-46.0-46.5	46.0-46.5	20180104	200.67	36.9	0.430	1.16
PT-M204-63.5-64.0	63.5-64.0	20180104	200.67	34.4	0.386	1.12
PT-M204-88.8-89.3	88.8-89.3	20180104	200.67	56.4	0.542	0.96
PT-M204-108.2-108.7	108.2-108.7	20180104	200.67	52.4	0.523	1.00
PT-M205-45.3-45.8	45.3-45.8	20180104	200.67	90.9	0.563	0.62
PT-M206-30.0-30.5	30.0-30.5	20180104	200.67	41.8	0.461	1.10
PT-M210-35.5-36.0	35.5-36.0	20180104	200.67	54.3	0.500	0.92
PT-M210-41.0-41.5	41.0-41.5	20180104	200.67	49.0	0.465	0.95
PT-M210-53.3-53.8	53.3-53.8	20180104	200.67	55.5	0.551	0.99
PT-M210-65.0-65.5	65.0-65.5	20180104	200.67	30.4	0.367	1.21
PT-M210-77.3-77.8	77.3-77.8	20180104	200.67	32.4	0.374	1.15
PT-M212-42.8-43.3	42.8-43.3	20180104	200.67	46.9	0.390	0.83
PT-M212-49.8-50.3	49.8-50.3	20180104	200.67	53.7	0.444	0.82
PT-M212-60.1-60.6	60.1-60.6	20180104	200.67	56.0	0.459	0.82
PT-M212-65.1-65.6	65.1-65.6	20180104	200.67	40.2	0.392	0.97
PT-M213-43.5-44.0	43.5-44.0	20180104	200.67	62.0	0.460	0.74
PT-M213-54.5-55.0	54.5-55.0	20180104	200.67	49.4	0.389	0.79
PT-M213-65.3-65.8	65.3-65.8	20180104	200.67	31.1	0.323	1.04
PT-M213-86.5-87.0	86.5-87.0	20180104	200.67	35.6	0.352	0.99

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

DRY BULK DENSITY OF IN-PLACE SOIL
 (Methodology: ASTM D2937)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	TOTAL SAMPLE VOLUME, cc	MOISTURE CONTENT, % wt	VOLUMETRIC MOISTURE CONTENT, fraction Vb	DRY BULK DENSITY, g/cc
PT-M213-93.5-94.0	93.5-94.0	20180104	200.67	45.8	0.417	0.91
PT-M213-105.0-105.5	105.0-105.5	20180104	200.67	19.7	0.216	1.09
PT-M244-95.5-96.0	95.5-96.0	20180104	200.67	60.8	0.465	0.76
PT-M244-113.5-114.0	113.5-114.0	20180104	200.67	13.7	0.149	1.09
PT-M244-126.5-127.0	126.5-127.0	20180104	200.67	57.9	0.475	0.82

Vb = Bulk Volume

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS: ANALYSIS DATE	API RP 40 /	Mod. ASTM D425
				TOTAL POROSITY (2), %Vb	Mod. ASTM D425 EFFECTIVE POROSITY, %Vb
PT-RIDB16-51.4-51.8	51.4-51.8	V	20180104	75.0	25.8
PT-RIDB16-54.5-55.0	54.5-55.0	V	20180104	63.4	19.5
PT-RIDB16-74.5-74.8	74.5-74.8	V	20180104	51.6	10.1
PT-RIDB29-77.8-78.3	77.8-78.3	V	20180104	57.8	14.8
PT-RI12-52.4-52.9	52.4-52.9	V	20180104	66.6	14.3
PT-RI12-65.3-65.9	65.3-65.9	V	20180104	65.9	9.1
PT-RI12-102.0-102.6	102.0-102.6	V	20180104	65.9	30.6
PT-RI12-127.0-127.3	127.0-127.3	V	20180104	63.4	14.2
PT-RI12-145.7-146.0	145.7-146.0	V	20180104	54.0	23.7
PT-RI13-76.3-76.8	76.3-76.8	V	20180104	51.5	25.1
PT-RI13-84.5-85.0	84.5-85.0	V	20180104	72.9	20.5
PT-RI13-107.0-107.7	107.0-107.7	V	20180104	60.2	22.8
PT-RI13-117.5-118.0	117.5-118.0	V	20180104	48.0	18.8
PT-RI13-142.4-143.0	142.4-143.0	V	20180104	69.3	18.6
PT-M204-46.0-46.5	46.0-46.5	V	20180104	60.1	13.1
PT-M204-63.5-64.0	63.5-64.0	V	20180104	66.3	12.2
PT-M204-88.8-89.3	88.8-89.3	V	20180104	69.7	14.5
PT-M204-108.2-108.7	108.2-108.7	V	20180104	70.7	15.9
PT-M205-45.3-45.8	45.3-45.8	V	20180104	79.0	28.2
PT-M206-30.0-30.5	30.0-30.5	V	20180104	61.3	16.9
PT-M210-35.5-36.0	35.5-36.0	V	20180104	64.0	20.4
PT-M210-41.0-41.5	41.0-41.5	V	20180104	60.3	10.1
PT-M210-53.3-53.8	53.3-53.8	V	20180104	63.1	22.1
PT-M210-65.0-65.5	65.0-65.5	V	20180104	51.0	9.9
PT-M210-77.3-77.8	77.3-77.8	V	20180104	55.1	17.1
PT-M212-42.8-43.3	42.8-43.3	V	20180104	68.6	28.0
PT-M212-49.8-50.3	49.8-50.3	V	20180104	65.8	24.8
PT-M212-60.1-60.6	60.1-60.6	V	20180104	68.1	21.1
PT-M212-65.1-65.6	65.1-65.6	V	20180104	62.8	22.3

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS: ANALYSIS DATE	API RP 40 /	Mod. ASTM D425
				TOTAL POROSITY (2), %Vb	EFFECTIVE POROSITY, %Vb
PT-M213-43.5-44.0	43.5-44.0	V	20180104	70.2	17.3
PT-M213-54.5-55.0	54.5-55.0	V	20180104	63.7	14.6
PT-M213-65.3-65.8	65.3-65.8	V	20180104	61.8	24.6
PT-M213-86.5-87.0	86.5-87.0	V	20180104	55.0	8.7
PT-M213-93.5-94.0	93.5-94.0	V	20180104	64.9	16.4
PT-M213-105.0-105.5	105.0-105.5	V	20180104	64.4	16.9
PT-M244-95.5-96.0	95.5-96.0	V	20180104	69.3	14.8
PT-M244-113.5-114.0	113.5-114.0	V	20180104	60.8	22.3
PT-M244-126.5-127.0	126.5-127.0	V	20180104	62.0	12.1

(1) Sample Orientation: H = horizontal; V = vertical; R = remold

(2) Total Porosity = all interconnected pore channels.

Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY

(Methodology: API RP 40; EPA 9100)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	25 PSI CONFINING STRESS		
				EFFECTIVE PERMEABILITY TO WATER (2,3), millidarcy	HYDRAULIC CONDUCTIVITY (3), cm/s	INTRINSIC PERMEABILITY TO WATER (3), cm ²
PT-M210-35.5-36.0	35.5-36.0	V	20170109	8.05	7.03E-06	7.95E-11
PT-M210-41.0-41.5	41.0-41.5	V	20170109	0.353	3.12E-07	3.49E-12
PT-M210-65.0-65.5	65.0-65.5	V	20170109	0.842	7.56E-07	8.32E-12
PT-M213-43.5-44.0	43.5-44.0	V	20170109	1.86	1.71E-06	1.83E-11
PT-M213-54.5-55.0	54.5-55.0	V	20170109	1.66	1.55E-06	1.64E-11
PT-M213-86.5-87.0	86.5-87.0	V	20170109	0.736	7.01E-07	7.26E-12
PT-M244-126.5-127.0	126.5-127.0	V	20170109	0.774	7.63E-07	7.64E-12

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Effective (Native) = With as-received pore fluids in place.
 (3) Permeability to water and hydraulic conductivity measured at saturated conditions.
 Water = filtered Laboratory Fresh (tap) or Site water.

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RIDB16-51.4-51.8	51.4-51.8	20180115	1045	SOIL	690	6.90E-04
PT-RIDB16--54.5-55.0	54.5-55.0	20180115	1045	SOIL	600	6.00E-04
PT-RIDB16-74.5-74.8	74.5-74.8	20180115	1045	SOIL	600	6.00E-04
PT-RIDB29-68.5-68.8	68.5-68.8	20180115	1045	SOIL	600	6.00E-04
PT-RIDB29-77.8-78.3	77.8-78.3	20180115	1045	SOIL	700	7.00E-04
PT-RIDB29-81.5-81.8	81.5-81.8	20180115	1045	SOIL	400	4.00E-04
PT-RI12-52.4-52.9	52.4-52.9	20180115	1045	SOIL	210	2.10E-04
PT-RI12-65.3-65.9	65.3-65.9	20180115	1045	SOIL	300	3.00E-04
PT-RI12-73.5-73.8	73.5-73.8	20180115	1045	SOIL	300	3.00E-04
PT-RI12-102.0-102.6	102.0-102.6	20180115	1045	SOIL	590	5.90E-04
PT-RI12-127.0-127.3	127.0-127.3	20180115	1045	SOIL	670	6.70E-04
PT-RI12-145.7-146.0	145.7-146.0	20180115	1045	SOIL	310	3.10E-04
PT-RI13-76.3-76.8	76.3-76.8	20180115	1045	SOIL	400	4.00E-04
PT-RI13-84.5-85.0	84.5-85.0	20180115	1045	SOIL	200	2.00E-04
PT-RI13-107.0-107.7	107.0-107.7	20180115	1045	SOIL	400	4.00E-04
PT-RI13-117.5-118.0	117.5-118.0	20180115	1045	SOIL	200	2.00E-04
PT-RI13-142.4-143.0	142.4-143.0	20180115	1045	SOIL	300	3.00E-04
PT-RI27-46.0-46.3	46.0-46.3	20180115	1045	SOIL	300	3.00E-04
PT-RI27-60.5-60.8	60.5-60.8	20180115	1045	SOIL	200	2.00E-04
PT-RI27-74.0-74.3	74.0-74.3	20180115	1045	SOIL	110	1.10E-04
Blank	N/A	20180115	1045	BLANK	ND	ND
SRM D094-542	N/A	20180115	1045	SRM	6770	6.77E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D094-542	95	75-125	7150	5363	8938

ND = Not Detected

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RI27-97.5-97.8	97.5-97.8	20180118	1030	SOIL	200	2.00E-04
PT-M204-23.0-23.3	23.0-23.3	20180118	1030	SOIL	400	4.00E-04
PT-M204-31.0-31.3	31.0-31.3	20180118	1030	SOIL	300	3.00E-04
PT-M204-38.5-38.8	38.5-38.8	20180118	1030	SOIL	490	4.90E-04
PT-M204-41.2-41.5	41.2-41.5	20180118	1030	SOIL	210	2.10E-04
PT-M204-46.0-46.5	46.0-46.5	20180118	1030	SOIL	210	2.10E-04
PT-M204-53.5-53.8	53.5-53.8	20180118	1030	SOIL	500	5.00E-04
PT-M204-63.5-64.0	63.5-64.0	20180118	1030	SOIL	500	5.00E-04
PT-M204-74.0-74.3	74.0-74.3	20180118	1030	SOIL	110	1.10E-04
PT-M204-88.8-89.3	88.8-89.3	20180118	1030	SOIL	400	4.00E-04
PT-M204-108.2-108.7	108.2-108.7	20180118	1030	SOIL	770	7.70E-04
PT-M205-45.3-45.8	45.3-45.8	20180118	1030	SOIL	1050	1.05E-03
PT-M206-21.5-21.8	21.5-21.8	20180118	1030	SOIL	590	5.90E-04
PT-M206-28.0-28.3	28.0-28.3	20180118	1030	SOIL	500	5.00E-04
PT-M206-30.0-30.5	30.0-30.5	20180118	1030	SOIL	400	4.00E-04
PT-M210-12.5-12.8	12.5-12.8	20180118	1030	SOIL	400	4.00E-04
PT-M210-26.5-26.8	26.5-26.8	20180118	1030	SOIL	690	6.90E-04
PT-M210-35.5-36.0	35.5-36.0	20180118	1030	SOIL	400	4.00E-04
PT-M210-41.0-41.5	41.0-41.5	20180118	1030	SOIL	400	4.00E-04
PT-M210-53.3-53.8	53.3-53.8	20180118	1030	SOIL	500	5.00E-04
Blank	N/A	20180118	1030	BLANK	ND	ND
SRM D094-542	N/A	20180118	1030	SRM	6429	6.43E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D094-542	90	75-125	7150	5363	8938

ND = Not Detected

PTS File No: 47270
 Client: Ramboll Environ
 Report Date: 01/30/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-M210-65.0-65.5	65.0-65.5	20180119	1000	SOIL	500	5.00E-04
PT-M210-77.3-77.8	77.3-77.8	20180119	1000	SOIL	210	2.10E-04
PT-M212-42.8-43.3	42.8-43.3	20180119	1000	SOIL	490	4.90E-04
PT-M212-49.8-50.3	49.8-50.3	20180119	1000	SOIL	400	4.00E-04
PT-M212-60.1-60.6	60.1-60.6	20180119	1000	SOIL	500	5.00E-04
PT-M212-65.1-65.6	65.1-65.6	20180119	1000	SOIL	300	3.00E-04
PT-M213-24.7-25.0	24.7-25.0	20180119	1000	SOIL	210	2.10E-04
PT-M213-43.5-44.0	43.5-44.0	20180119	1000	SOIL	200	2.00E-04
PT-M213-54.5-55.0	54.5-55.0	20180119	1000	SOIL	200	2.00E-04
PT-M213-65.3-65.8	65.3-65.8	20180119	1000	SOIL	490	4.90E-04
PT-M213-86.5-87.0	86.5-87.0	20180119	1000	SOIL	490	4.90E-04
PT-M213-93.5-94.0	93.5-94.0	20180119	1000	SOIL	500	5.00E-04
PT-M213-105.0-105.5	105.0-105.5	20180119	1000	SOIL	300	3.00E-04
PT-M244-95.5-96.0	95.5-96.0	20180119	1000	SOIL	800	8.00E-04
PT-M244-113.5-114.0	113.5-114.0	20180119	1000	SOIL	200	2.00E-04
PT-M244-126.5-127.0	126.5-127.0	20180119	1000	SOIL	200	2.00E-04

Blank
SRM D094-542

N/A
N/A

20180119
20180119

1000
1000

BLANK
SRM

ND
6453

ND
6.45E-03

Reporting Limit:

100

1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D094-542	90	75-125	7150	5363	8938

ND = Not Detected

To: Michael Mark Brady, PTS Laboratories, Inc.
 5730 Centralcrest Street, Houston, TX 77092

Project:

Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 4 (sent 5/24/17)

Date: August 21, 2017

Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RIDB-16	51.4 - 51.8	PT-RIDB16-51.4-51.8	wrapped core	X	X	X	X	X				X
RIDB-16	54.5 - 55.0	PT-RIDB16-54.5-55.0	wrapped core	X	X	X	X	X				X
RIDB-16	74.5 - 74.8	PT-RIDB16-74.5-74.8	wrapped core	X	X	X	X	X				X
RIDB-29	68.5 - 68.8	PT-RIDB29-68.5-68.8	Glass jar	X	X (1)							X
RIDB-29	77.8 - 78.3	PT-RIDB29-77.8-78.3	wrapped core	X	X	X	X	X				X
RIDB-29	81.5 - 81.8	PT-RIDB29-81.5-81.8	Glass jar	X	X (1)							X
RI-12	52.4 - 52.9	PT-RI12-52.4-52.9	wrapped core	X	X	X	X	X				X
RI-12	65.3 - 65.9	PT-RI12-65.3-65.9	wrapped core	X	X	X	X	X				X
RI-12	73.5 - 73.8	PT-RI12-73.5-73.8	Glass jar	X	X (1)							X
RI-12	102.0 - 102.6	PT-RI12-102.0-102.6	wrapped core	X	X	X	X	X				X
RI-12	127.0 - 127.3	PT-RI12-127.0-127.3	wrapped core	X	X	X	X	X				X
RI-12	145.7 - 146.0	PT-RI12-145.7-146.0	wrapped core	X	X	X	X	X				X
RI-13	76.3 - 76.8	PT-RI13-76.3-76.8	wrapped core	X	X	X	X	X				X
RI-13	84.5 - 85.0	PT-RI13-84.5-85.0	wrapped core	X	X	X	X	X				X
RI-13	107.0 - 107.7	PT-RI13-107.0-107.7	wrapped core	X	X	X	X	X				X
RI-13	117.5 - 118.0	PT-RI13-117.5-118.0	wrapped core	X	X	X	X	X				X
RI-13	142.4 - 143.0	PT-RI13-142.4-143.0	wrapped core	X	X	X	X	X				X
RI-27	46.0 - 46.3	PT-RI27-46.0-46.3	Glass jar	X	X (1)							X
RI-27	60.5 - 60.8	PT-RI27-60.5-60.8	Glass jar	X	X (1)							X
RI-27	74.0 - 74.3	PT-RI27-74.0-74.3	Glass jar	X	X (1)							X
RI-27	97.5 - 97.8	PT-RI27-97.5-97.8	Glass jar	X	X (1)							X

To: Michael Mark Brady, PTS Laboratories, Inc.
 5730 Centralcrest Street, Houston, TX 77092

Project:

Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 4 (sent 5/24/17)

Date: August 21, 2017

Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
M-204	23.0 - 23.3	PT-M204-23.0-23.3	Glass jar	X	X (1)							X
M-204	31.0 - 31.3	PT-M204-31.0-31.3	Glass jar	X	X (1)							X
M-204	38.5 - 38.8	PT-M204-38.5-38.8	Glass jar	X	X (1)							X
M-204	41.2 - 41.5	PT-M204-41.2-41.5	Glass jar	X	X (1)							X
M-204	46.0 - 46.5	PT-M204-46.0-46.5	wrapped core	X	X	X	X	X				X
M-204	53.5 - 53.8	PT-M204-53.5-53.8	Glass jar	X	X (1)							X
M-204	63.5 - 64.0	PT-M204-63.5-64.0	wrapped core	X	X	X	X	X				X
M-204	74.0 - 74.3	PT-M204-74.0-74.3	Glass jar	X	X (1)							X
M-204	88.8 - 89.3	PT-M204-88.8-89.3	wrapped core	X	X	X	X	X				X
M-204	108.2 - 108.7	PT-M204-108.2-108.7	wrapped core	X	X	X	X	X				X
M-205	45.3 - 45.8	PT-M205-45.3-45.8	wrapped core	X	X	X	X	X				X
M-206	21.5 - 21.8	PT-M206-21.5-21.8	Glass jar	X	X (1)							X
M-206	28.0 - 28.3	PT-M206-28.0-28.3	Glass jar	X	X (1)							X
M-206	30.0 - 30.5	PT-M206-30.0-30.5	wrapped core	X	X	X	X	X				X
M-210	12.5 - 12.8	PT-M210-12.5-12.8	Glass jar	X	X (1)							X
M-210	26.5 - 26.8	PT-M210-26.5-26.8	Glass jar	X	X (1)							X
M-210	35.5 - 36.0	PT-M210-35.5-36.0	wrapped core	X	X	X	X	X	V	30 ft	5.5 ft	X
M-210	41.0 - 41.5	PT-M210-41.0-41.5	wrapped core	X	X	X	X	X	V	30 ft	11 ft	X
M-210	53.3 - 53.8	PT-M210-53.3-53.8	wrapped core	X	X	X	X	X				X
M-210	65.0 - 65.5	PT-M210-65.0-65.5	wrapped core	X	X	X	X	X	V	30 ft	35 ft	X
M-210	77.3 - 77.8	PT-M210-77.3-77.8	wrapped core	X	X	X	X	X				X
M-212	42.8 - 43.3	PT-M212-42.8-43.3	wrapped core	X	X	X	X	X				X
M-212	49.8 - 50.3	PT-M212-49.8-50.3	wrapped core	X	X	X	X	X				X
M-212	60.1 - 60.6	PT-M212-60.1-60.6	wrapped core	X	X	X	X	X				X
M-212	65.1 - 65.6	PT-M212-65.1-65.6	wrapped core	X	X	X	X	X				X

**To: Michael Mark Brady, PTS Laboratories, Inc.
5730 Centralcrest Street, Houston, TX 77092**

Project:

Nevada Environmental Reponse Trust (NERT)
Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

**PHYSICAL TESTING REQUEST,
for Sample Shipment Group 4 (sent 5/24/17)**

Date: August 21, 2017

Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
M-213	24.7 - 25.0	PT-M213-24.7-25.0	Glass jar	X	X (1)							X
M-213	43.5 - 44.0	PT-M213-43.5-44.0	wrapped core	X	X	X	X	X	V	29 ft	14.5 ft	X
M-213	54.5 - 55.0	PT-M213-54.5-55.0	wrapped core	X	X	X	X	X	V	29 ft	25.5 ft	X
M-213	65.3 - 65.8	PT-M213-65.3-65.8	wrapped core	X	X	X	X	X				X
M-213	86.5 - 87.0	PT-M213-86.5-87.0	wrapped core	X	X	X	X	X	V	29 ft	57.5 ft	X
M-213	93.5 - 94.0	PT-M213-93.5-94.0	wrapped core	X	X	X	X	X				X
M-213	105.0 - 105.5	PT-M213-105.0-105.5	wrapped core	X	X	X	X	X				X
M-244	95.5 - 96.0	PT-M244-95.5-96.0	wrapped core	X	X	X	X	X				X
M-244	113.5 - 114.0	PT-M244-113.5-114.0	wrapped core	X	X	X	X	X				X
M-244	126.5 - 127.0	PT-M244-126.5-127.0	wrapped core	X	X	X	X	X	V	35 ft	91.5 ft	X
TOTALS:				56	56	38	38	38	7			56

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).



5730 Centralcrest St. • Houston, TX 77092
Telephone (713) 316-1800 • Fax (877) 225-9953

February 27, 2018

Ross Russell, PG
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 47320
Project Name: NERT
Project Number: 2141400C.M03B

Dear Mr. Russell,

Please find enclosed report for Physical Properties analyses conducted upon samples received from your NERT project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please contact myself or Emeka Anazodo at (713) 316-1800.

Sincerely,
PTS Laboratories, Inc.

Rick Schweizer

Rick Schweizer
Laboratory Supervisor

Encl.

Project Name: NERT
 Project Number: 21-41400C, Phase M03B

PTS File No: 47320
 Client: Ramboll Environ

TEST PROGRAM - 20180131

CORE ID	pts Plug Number	Grain Size Analysis	Atterberg Limits ASTM D4318	USCS Soil Classification ASTM D2487	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/oc Walkley-Black	Comments
		Grab	Grab	Calc.	Vert. 1.5'	Vert. 1.5"	Vert. 1.5"	Vert. 1.5'	Grab	
Date Received: 20170622										
PT-M200-107.5-108.0	1	X	X	X	X	X	X	X	X	wrapped core
PT-M200-112.5-113.0	2	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB2-65.0-65.5	3	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB3-26.5-26.8	4	X	X(1)	X					X	Glass jar
PT-PCDB3-44.0-44.5	5	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB3-67.0-67.5	6	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB3-103.5-104.0	7	X	X	X	X	X	X		X	wrapped core
PT-PCDB3-136.0-136.3	8	X	X(1)	X					X	Glass jar
PT-PCDB3-142.5-142.8	9	X	X(1)	X					X	Glass jar
PT-PCDB3-148.3-148.8	10	X	X	X	X	X	X	X	X	wrapped core
PT-RI17-93.0-93.5	11	X	X	X	X	X	X		X	wrapped core
PT-RI17-108.4-108.9	12	X	X	X	X	X	X		X	wrapped core
PT-RI28- 69.5-69.8	13	X	X(1)	X					X	Glass jar
PT-RI28-71.3-71.8	14	X	X	X	X	X	X		X	wrapped core
PT-RI28-77.0-77.3	15	X	X(1)	X					X	Glass jar
PT-RI28-78.0-78.2	16	X	X(1)	X					X	Glass jar
PT-RI28-99.5-100.0	17	X	X	X	X	X	X		X	wrapped core
PT-RI26-33.0-33.3	18	X	X(1)	X					X	Glass jar
PT-RI26-57.8-58.3	19	X	X	X	X	X	X		X	wrapped core
PT-RI26-62.0-62.5	20	X	X(1)	X					X	Glass jar
PT-RI26-73.0-73.3	21	X	X(1)	X					X	Glass jar
PT-RI26-75.0-75.3	22	X	X(1)	X					X	Glass jar
PT-RI26-103.7-104.0	23	X	X	X	X	X	X		X	wrapped core
PT-RI26-108.5-109.0	24	X	X	X	X	X	X		X	wrapped core
PT-RI26-114.0-114.5	25	X	X	X	X	X	X	X	X	wrapped core
TOTALS:		25	25	25	15	15	15	7	25	25

Laboratory Test Program Notes

Contaminant identification: _____

Standard TAT for basic analysis is 10-15 business days.

Grain Size Analysis: Combined laser/sieve method; includes tabular data, graphics and statistical sorting in Excel format.

Effective Porosity: Includes Total Porosity.

USCS Soil Classification by ASTM D2487 requires Atterberg Limits and Grain Size Analysis (included as part of Test Program).

Note (1): Laboratory to verify Atterberg Limits are required to classify fine fraction per Ramboll Environ Physical Testing Requests.

PARTICLE SIZE SUMMARY
 (METHODOLOGY: ASTM D422)

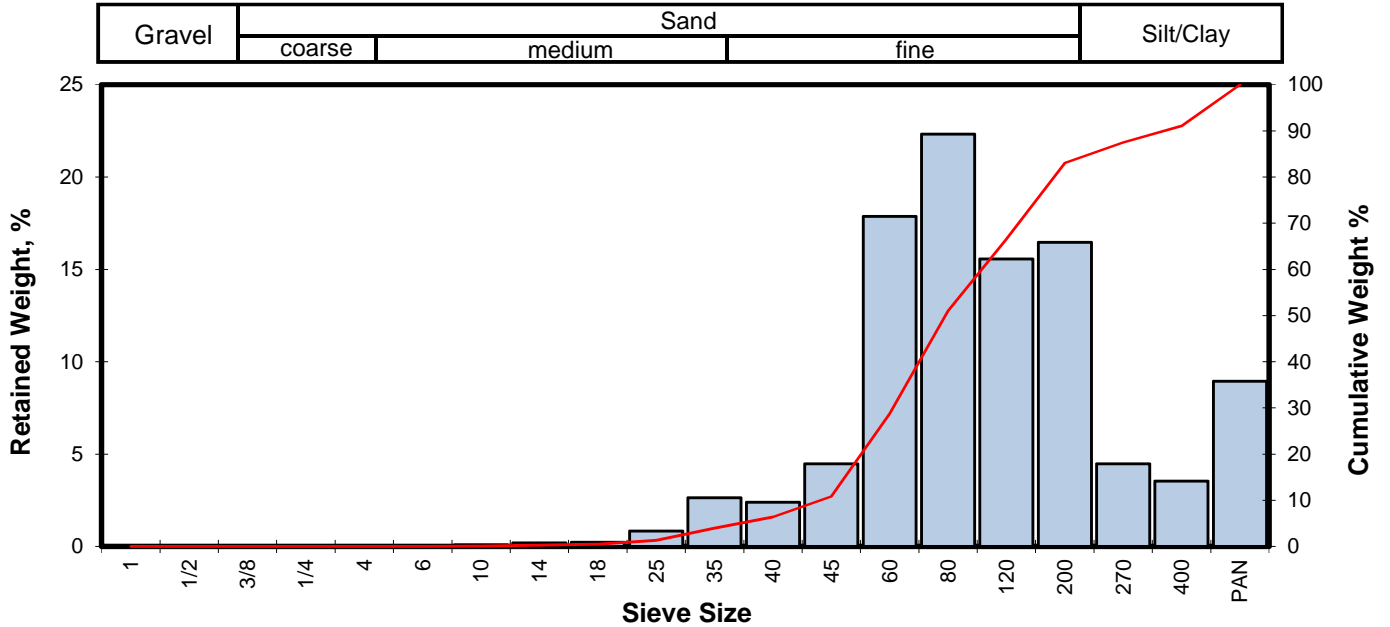
PROJECT NAME: NERT
 PROJECT NO: 21-41400C, Phase M03D

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size			Silt/Clay
					Coarse	Medium	Fine	
PT-M200-107.5-108.0	107.5-108	Fine Sand	0.180	0.00	0.09	6.27	76.69	16.95
PT-PCDB3-26.5-26.8	26.5-26.8	Coarse sand	3.070	41.11	16.05	17.68	20.63	4.53
PT-PCDB3-136.0-136.3	136.0-136.3	Medium sand	0.304	0.00	2.70	40.19	32.88	24.22
PT-R128-69.5-69.8	69.5-69.8	Coarse sand	0.796	22.58	13.19	23.24	22.68	18.31
PTR128-78.0-78.2	78.0-78.2	Medium sand	0.35	4.81	11.54	30.50	34.70	18.45
PTR126-33.0-33.3	33.0-33.3	Coarse sand	1.650	22.10	23.20	26.35	20.06	8.30
PTR126-57.8-58.3	57.8-58.3	Fine Sand	0.189	0.72	8.76	24.88	41.86	23.78
PTR126-75.0-75.3	75.0-75.3	Medium sand	0.306	13.13	9.92	22.86	32.54	21.55
PTR126-103.7-104.0	103.7-104.0	Medium sand	0.361	4.88	11.59	30.43	37.66	15.45

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PT-M200-107.5-108.0
 Depth, ft: 107.5-108



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.14	0.09	0.09
0.0557	1.414	-0.50	14	0.29	0.19	0.28
0.0394	1.000	0.00	18	0.35	0.23	0.51
0.0278	0.707	0.50	25	1.26	0.83	1.34
0.0197	0.500	1.00	35	4.01	2.64	3.98
0.0166	0.420	1.25	40	3.63	2.39	6.36
0.0139	0.354	1.50	45	6.80	4.47	10.83
0.0098	0.250	2.00	60	27.20	17.87	28.70
0.0070	0.177	2.50	80	33.97	22.32	51.03
0.0049	0.125	3.00	120	23.68	15.56	66.59
0.0029	0.074	3.75	200	25.05	16.46	83.05
0.0021	0.053	4.25	270	6.80	4.47	87.51
0.0015	0.037	4.75	400	5.39	3.54	91.06
			PAN	13.61	8.94	100.00
TOTALS				152.18	100.00	100.00

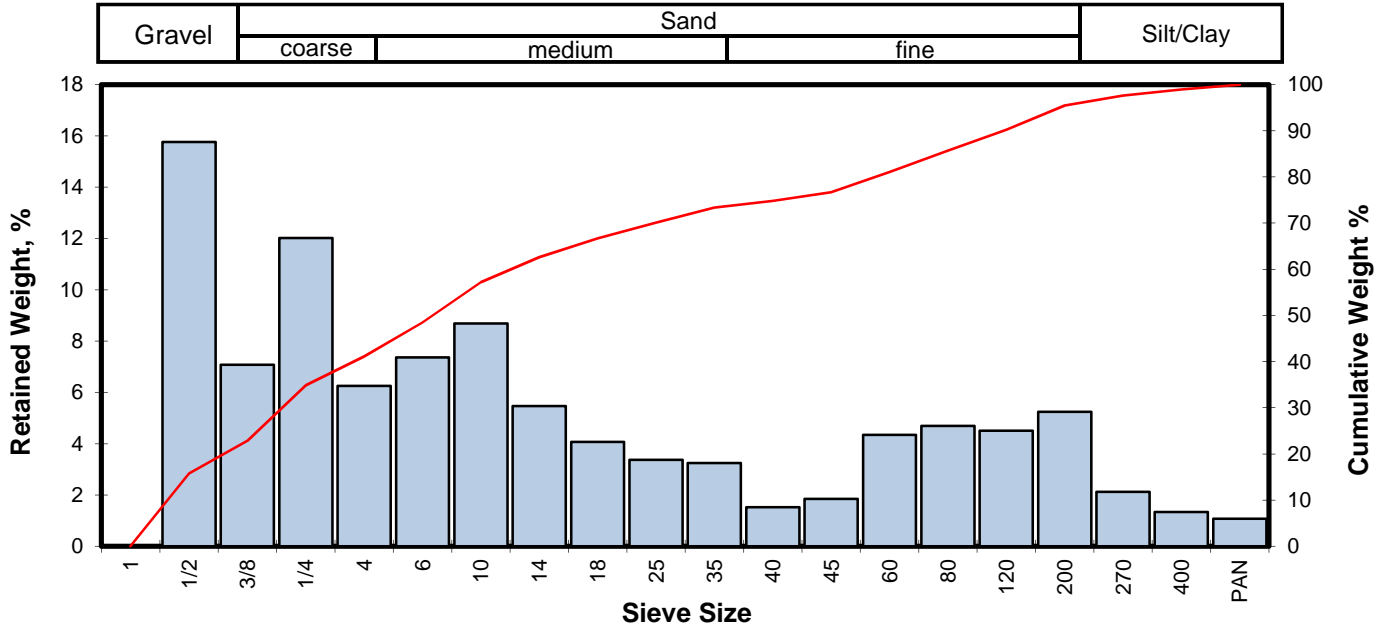
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.11	0.0183	0.464
10	1.45	0.0144	0.365
16	1.64	0.0126	0.320
25	1.90	0.0106	0.269
40	2.25	0.0083	0.210
50	2.48	0.0071	0.180
60	2.79	0.0057	0.145
75	3.38	0.0038	0.096
84	3.86	0.0027	0.069
90	4.60	0.0016	0.041
95	2.66	0.0062	0.159

Measure	Trask	Inman	Folk-Ward
Median, phi	2.48	2.48	2.48
Median, in.	0.0071	0.0071	0.0071
Median, mm	0.180	0.180	0.180
Mean, phi	2.46	2.75	2.66
Mean, in.	0.0072	0.0058	0.0062
Mean, mm	0.182	0.149	0.158
Sorting	1.674	1.106	0.788
Skewness	0.893	0.247	-0.261
Kurtosis	0.267	-0.300	0.427
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.09
Medium Sand	40	6.27
Fine Sand	200	76.69
Silt/Clay	<200	16.95
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PT-PCDB3-26.5-26.8
 Depth, ft: 26.5-26.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	26.04	15.76	15.76
0.3740	9.500	-3.25	3/8	11.70	7.08	22.84
0.2500	6.351	-2.67	1/4	19.87	12.02	34.86
0.1873	4.757	-2.25	4	10.33	6.25	41.11
0.1324	3.364	-1.75	6	12.17	7.36	48.48
0.0787	2.000	-1.00	10	14.36	8.69	57.16
0.0557	1.414	-0.50	14	9.03	5.46	62.63
0.0394	1.000	0.00	18	6.73	4.07	66.70
0.0278	0.707	0.50	25	5.57	3.37	70.07
0.0197	0.500	1.00	35	5.37	3.25	73.32
0.0166	0.420	1.25	40	2.51	1.52	74.84
0.0139	0.354	1.50	45	3.05	1.85	76.69
0.0098	0.250	2.00	60	7.17	4.34	81.02
0.0070	0.177	2.50	80	7.76	4.70	85.72
0.0049	0.125	3.00	120	7.44	4.50	90.22
0.0029	0.074	3.75	200	8.67	5.25	95.47
0.0021	0.053	4.25	270	3.50	2.12	97.59
0.0015	0.037	4.75	400	2.21	1.34	98.92
			PAN	1.78	1.08	100.00
TOTALS				165.26	100.00	100.00

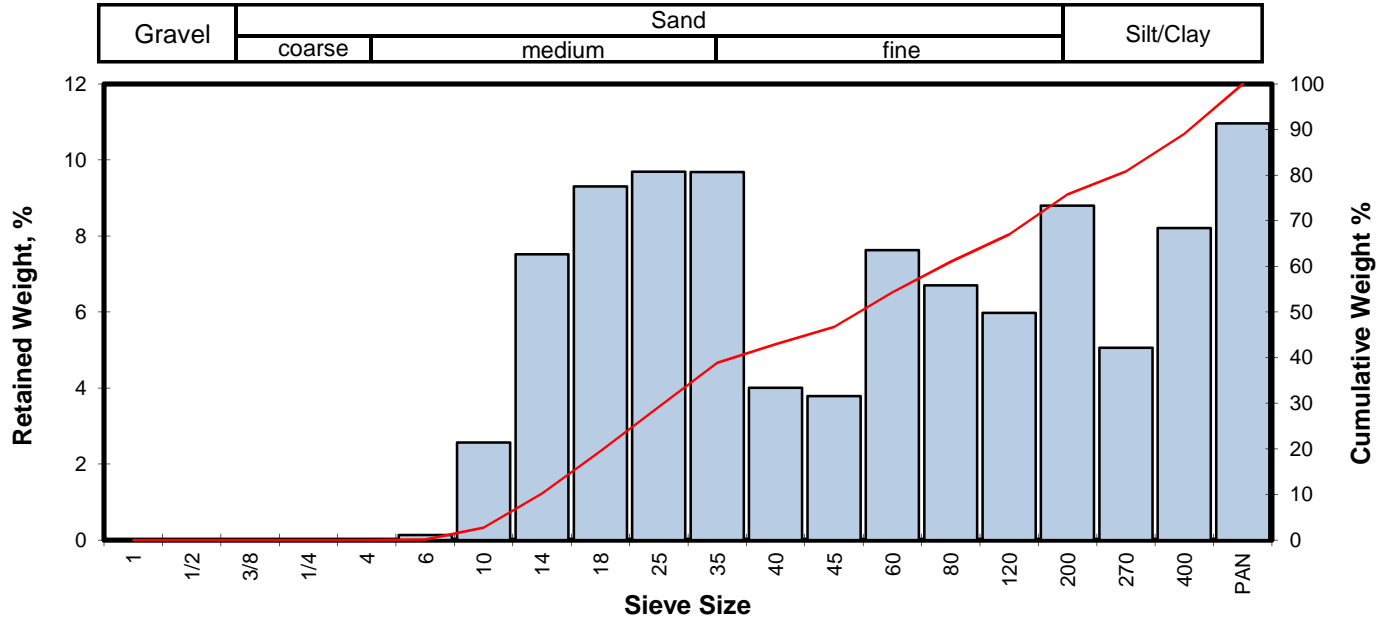
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.33	0.7900	20.066
10	-4.01	0.6340	16.104
16	-3.63	0.4876	12.384
25	-3.14	0.3479	8.836
40	-2.32	0.1971	5.008
50	-1.62	0.1209	3.070
60	-0.74	0.0658	1.671
75	1.27	0.0163	0.414
84	2.32	0.0079	0.201
90	2.98	0.0050	0.127
95	3.68	0.0031	0.078

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.62	-1.62	-1.62
Median, in.	0.1209	0.1209	0.1209
Median, mm	3.070	3.070	3.070
Mean, phi	-2.21	-0.66	-0.98
Mean, in.	0.1821	0.0621	0.0775
Mean, mm	4.625	1.577	1.969
Sorting	4.619	2.974	2.700
Skewness	0.623	0.323	0.324
Kurtosis	0.264	0.347	0.744
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	41.11
Coarse Sand	10	16.05
Medium Sand	40	17.68
Fine Sand	200	20.63
Silt/Clay	<200	4.53
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PT-PCDB3-136.0-136.3
 Depth, ft: 136.0-136.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.23	0.13	0.13
0.0787	2.000	-1.00	10	4.43	2.57	2.70
0.0557	1.414	-0.50	14	12.96	7.51	10.22
0.0394	1.000	0.00	18	16.04	9.30	19.52
0.0278	0.707	0.50	25	16.71	9.69	29.21
0.0197	0.500	1.00	35	16.70	9.68	38.89
0.0166	0.420	1.25	40	6.91	4.01	42.89
0.0139	0.354	1.50	45	6.53	3.79	46.68
0.0098	0.250	2.00	60	13.15	7.62	54.31
0.0070	0.177	2.50	80	11.55	6.70	61.00
0.0049	0.125	3.00	120	10.31	5.98	66.98
0.0029	0.074	3.75	200	15.17	8.80	75.78
0.0021	0.053	4.25	270	8.73	5.06	80.84
0.0015	0.037	4.75	400	14.15	8.20	89.04
			PAN	18.90	10.96	100.00
TOTALS				172.47	100.00	100.00

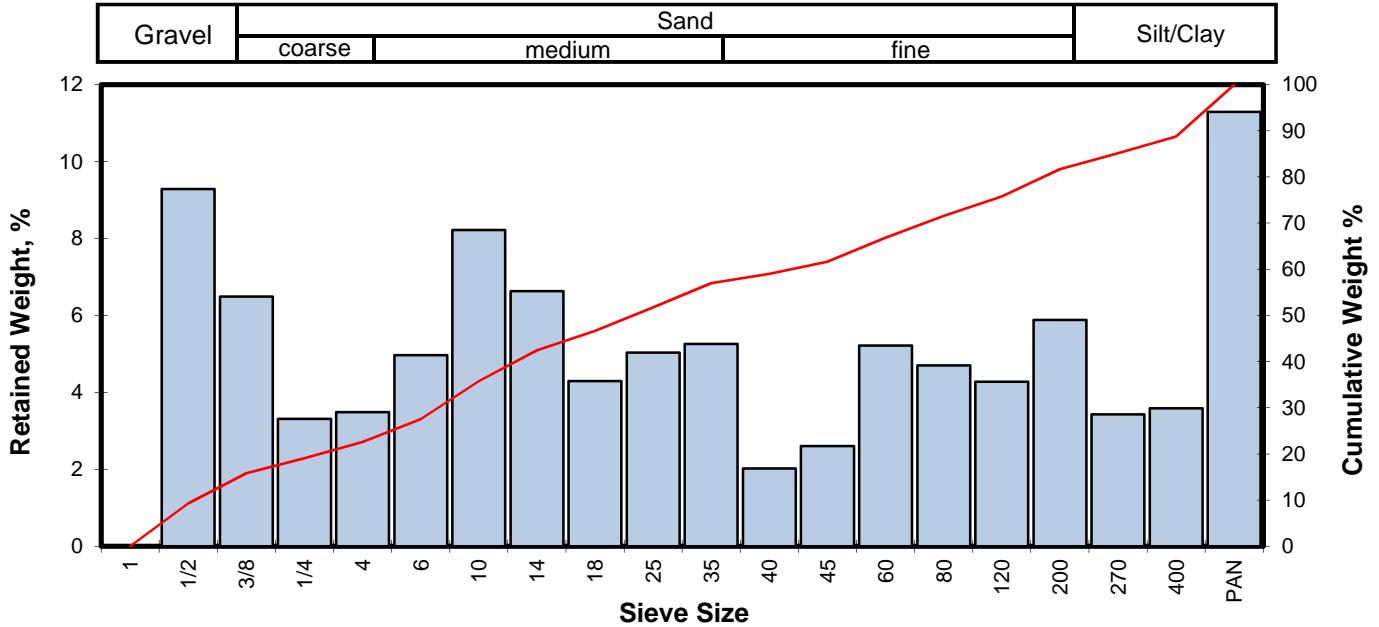
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.85	0.0708	1.799
10	-0.51	0.0562	1.428
16	-0.19	0.0449	1.140
25	0.28	0.0324	0.822
40	1.07	0.0188	0.477
50	1.72	0.0120	0.304
60	2.43	0.0073	0.186
75	3.68	0.0031	0.078
84	4.44	0.0018	0.046
90	4.33	0.0020	0.050
95	2.17	0.0088	0.223

Measure	Trask	Inman	Folk-Ward
Median, phi	1.72	1.72	1.72
Median, in.	0.0120	0.0120	0.0120
Median, mm	0.304	0.304	0.304
Mean, phi	1.15	2.13	1.99
Mean, in.	0.0177	0.0090	0.0099
Mean, mm	0.450	0.229	0.252
Sorting	3.250	2.316	1.615
Skewness	0.832	0.177	-0.263
Kurtosis	0.270	-0.349	0.363
Grain Size Description (ASTM-USCS Scale)		Medium sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	2.70
Medium Sand	40	40.19
Fine Sand	200	32.88
Silt/Clay	<200	24.22
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PT-RI28-69.5-69.8
 Depth, ft: 69.5-69.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	16.05	9.29	9.29
0.3740	9.500	-3.25	3/8	11.22	6.49	15.78
0.2500	6.351	-2.67	1/4	5.73	3.32	19.09
0.1873	4.757	-2.25	4	6.03	3.49	22.58
0.1324	3.364	-1.75	6	8.58	4.96	27.55
0.0787	2.000	-1.00	10	14.21	8.22	35.77
0.0557	1.414	-0.50	14	11.46	6.63	42.40
0.0394	1.000	0.00	18	7.42	4.29	46.69
0.0278	0.707	0.50	25	8.70	5.03	51.73
0.0197	0.500	1.00	35	9.09	5.26	56.99
0.0166	0.420	1.25	40	3.50	2.03	59.01
0.0139	0.354	1.50	45	4.50	2.60	61.62
0.0098	0.250	2.00	60	9.01	5.21	66.83
0.0070	0.177	2.50	80	8.13	4.70	71.53
0.0049	0.125	3.00	120	7.39	4.28	75.81
0.0029	0.074	3.75	200	10.17	5.88	81.69
0.0021	0.053	4.25	270	5.93	3.43	85.12
0.0015	0.037	4.75	400	6.20	3.59	88.71
			PAN	19.51	11.29	100.00
TOTALS				172.83	100.00	100.00

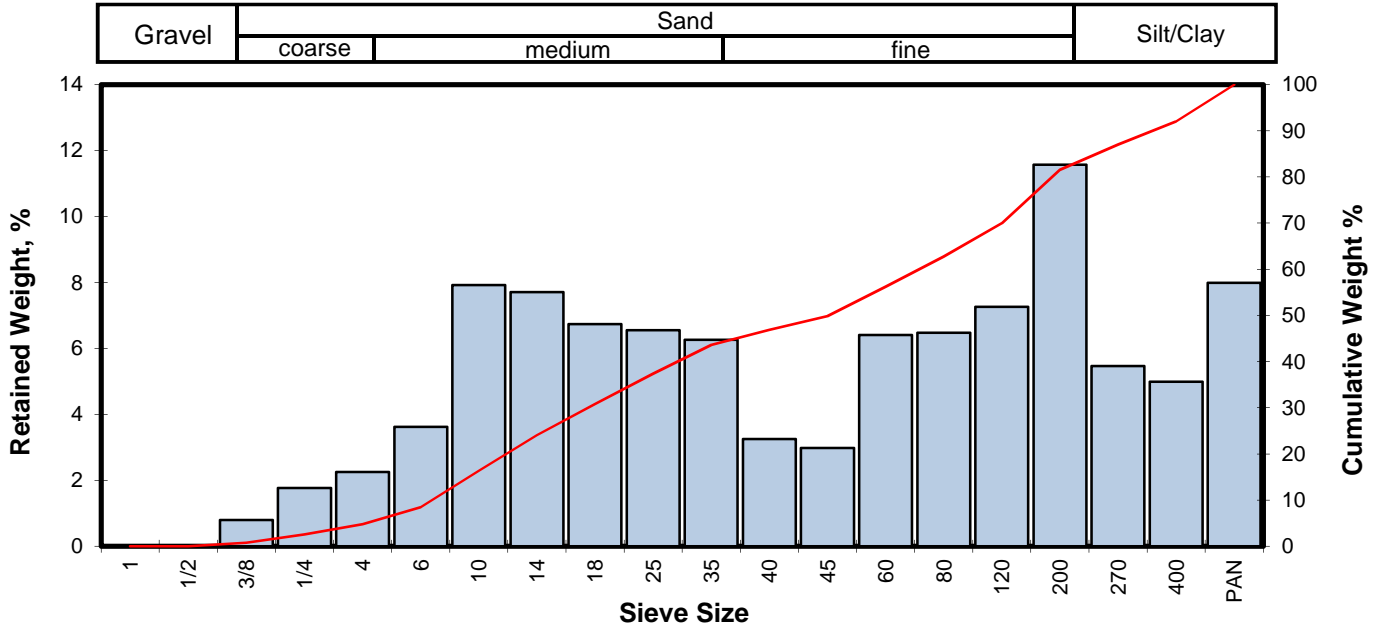
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.11	0.6778	17.215
10	-3.60	0.4776	12.130
16	-3.21	0.3641	9.248
25	-2.01	0.1582	4.018
40	-0.68	0.0631	1.603
50	0.33	0.0314	0.796
60	1.34	0.0155	0.394
75	2.91	0.0053	0.133
84	4.09	0.0023	0.059
90	4.21	0.0021	0.054
95	2.10	0.0092	0.233

Measure	Trask	Inman	Folk-Ward
Median, phi	0.33	0.33	0.33
Median, in.	0.0314	0.0314	0.0314
Median, mm	0.796	0.796	0.796
Mean, phi	-1.05	0.44	0.40
Mean, in.	0.0817	0.0291	0.0298
Mean, mm	2.076	0.738	0.757
Sorting	5.487	3.648	2.765
Skewness	0.920	0.030	-0.199
Kurtosis	0.161	-0.149	0.518
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	22.58
Coarse Sand	10	13.19
Medium Sand	40	23.24
Fine Sand	200	22.68
Silt/Clay	<200	18.31
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PTRI28-78.0-78.2
 Depth, ft: 78.0-78.2



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	1.25	0.79	0.79
0.2500	6.351	-2.67	1/4	2.78	1.77	2.56
0.1873	4.757	-2.25	4	3.55	2.25	4.81
0.1324	3.364	-1.75	6	5.70	3.62	8.43
0.0787	2.000	-1.00	10	12.47	7.92	16.35
0.0557	1.414	-0.50	14	12.13	7.70	24.06
0.0394	1.000	0.00	18	10.60	6.73	30.79
0.0278	0.707	0.50	25	10.32	6.55	37.35
0.0197	0.500	1.00	35	9.85	6.26	43.60
0.0166	0.420	1.25	40	5.12	3.25	46.85
0.0139	0.354	1.50	45	4.69	2.98	49.83
0.0098	0.250	2.00	60	10.09	6.41	56.24
0.0070	0.177	2.50	80	10.20	6.48	62.72
0.0049	0.125	3.00	120	11.43	7.26	69.98
0.0029	0.074	3.75	200	18.22	11.57	81.55
0.0021	0.053	4.25	270	8.61	5.47	87.02
0.0015	0.037	4.75	400	7.86	4.99	92.01
			PAN	12.58	7.99	100.00
TOTALS				157.45	100.00	100.00

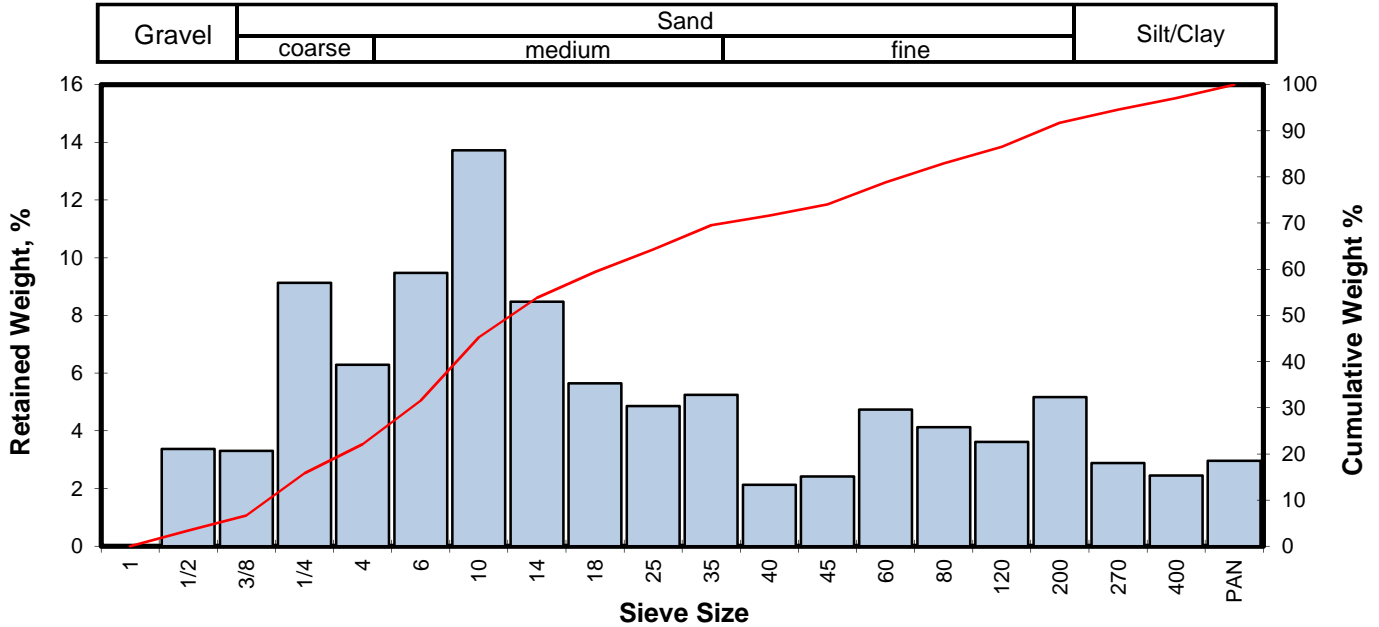
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.22	0.1840	4.673
10	-1.60	0.1195	3.035
16	-1.03	0.0806	2.047
25	-0.43	0.0530	1.347
40	0.71	0.0240	0.610
50	1.51	0.0138	0.350
60	2.29	0.0080	0.204
75	3.33	0.0039	0.100
84	3.97	0.0025	0.064
90	4.55	0.0017	0.043
95	2.97	0.0050	0.127

Measure	Trask	Inman	Folk-Ward
Median, phi	1.51	1.51	1.51
Median, in.	0.0138	0.0138	0.0138
Median, mm	0.350	0.350	0.350
Mean, phi	0.47	1.47	1.48
Mean, in.	0.0285	0.0142	0.0141
Mean, mm	0.724	0.361	0.357
Sorting	3.675	2.504	2.039
Skewness	1.046	-0.017	-0.228
Kurtosis	0.208	0.038	0.567
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	4.81
Coarse Sand	10	11.54
Medium Sand	40	30.50
Fine Sand	200	34.70
Silt/Clay	<200	18.45
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PTRI26-33.0-33.3
 Depth, ft: 33.0-33.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	5.26	3.38	3.38
0.3740	9.500	-3.25	3/8	5.15	3.31	6.69
0.2500	6.351	-2.67	1/4	14.21	9.13	15.81
0.1873	4.757	-2.25	4	9.79	6.29	22.10
0.1324	3.364	-1.75	6	14.75	9.47	31.57
0.0787	2.000	-1.00	10	21.37	13.72	45.29
0.0557	1.414	-0.50	14	13.20	8.48	53.77
0.0394	1.000	0.00	18	8.80	5.65	59.42
0.0278	0.707	0.50	25	7.56	4.85	64.28
0.0197	0.500	1.00	35	8.17	5.25	69.52
0.0166	0.420	1.25	40	3.31	2.13	71.65
0.0139	0.354	1.50	45	3.76	2.41	74.06
0.0098	0.250	2.00	60	7.37	4.73	78.80
0.0070	0.177	2.50	80	6.42	4.12	82.92
0.0049	0.125	3.00	120	5.63	3.62	86.53
0.0029	0.074	3.75	200	8.05	5.17	91.70
0.0021	0.053	4.25	270	4.49	2.88	94.59
0.0015	0.037	4.75	400	3.82	2.45	97.04
			PAN	4.61	2.96	100.00
TOTALS				155.72	100.00	100.00

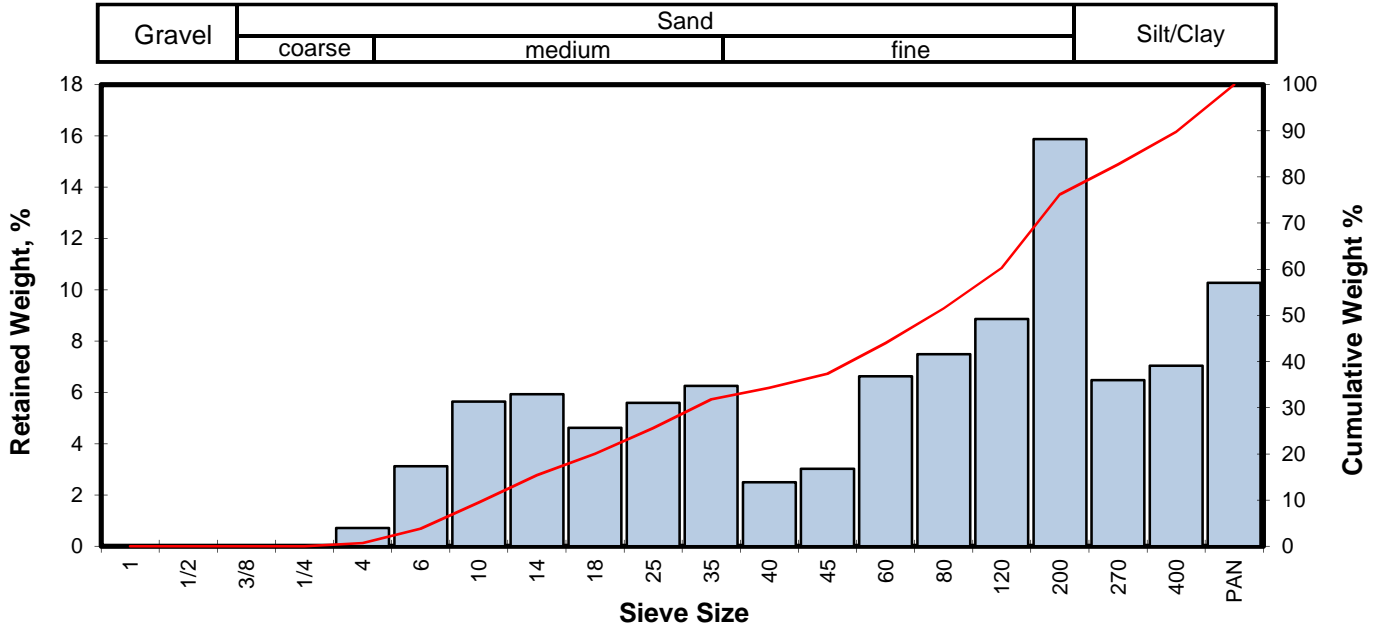
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.45	0.4302	10.927
10	-3.04	0.3231	8.208
16	-2.65	0.2479	6.296
25	-2.10	0.1684	4.278
40	-1.29	0.0962	2.444
50	-0.72	0.0650	1.650
60	0.06	0.0378	0.959
75	1.60	0.0130	0.330
84	2.65	0.0063	0.159
90	3.50	0.0035	0.088
95	4.33	0.0020	0.050

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.72	-0.72	-0.72
Median, in.	0.0650	0.0650	0.0650
Median, mm	1.650	1.650	1.650
Mean, phi	-1.20	0.00	-0.24
Mean, in.	0.0907	0.0394	0.0466
Mean, mm	2.304	1.002	1.183
Sorting	3.600	2.652	2.505
Skewness	0.720	0.271	0.285
Kurtosis	0.243	0.468	0.863
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	22.10
Coarse Sand	10	23.20
Medium Sand	40	26.35
Fine Sand	200	20.06
Silt/Clay	<200	8.30
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PTRI26-57.8-58.3
 Depth, ft: 57.8-58.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	1.42	0.72	0.72
0.1324	3.364	-1.75	6	6.18	3.12	3.83
0.0787	2.000	-1.00	10	11.18	5.64	9.47
0.0557	1.414	-0.50	14	11.76	5.93	15.40
0.0394	1.000	0.00	18	9.15	4.62	20.02
0.0278	0.707	0.50	25	11.08	5.59	25.61
0.0197	0.500	1.00	35	12.39	6.25	31.86
0.0166	0.420	1.25	40	4.95	2.50	34.36
0.0139	0.354	1.50	45	5.98	3.02	37.37
0.0098	0.250	2.00	60	13.14	6.63	44.00
0.0070	0.177	2.50	80	14.84	7.49	51.49
0.0049	0.125	3.00	120	17.57	8.86	60.35
0.0029	0.074	3.75	200	31.46	15.87	76.22
0.0021	0.053	4.25	270	12.83	6.47	82.69
0.0015	0.037	4.75	400	13.96	7.04	89.73
			PAN	20.36	10.27	100.00
TOTALS				198.25	100.00	100.00

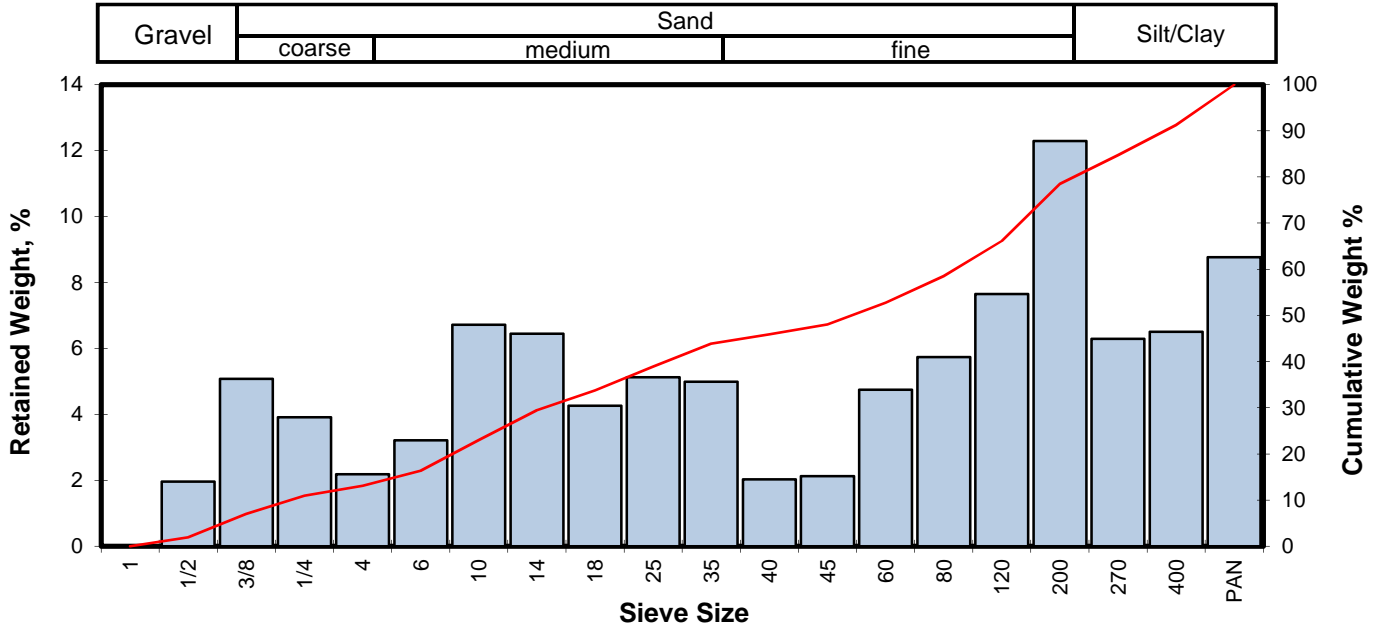
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.59	0.1189	3.021
10	-0.96	0.0764	1.939
16	-0.44	0.0532	1.352
25	0.45	0.0289	0.734
40	1.70	0.0121	0.308
50	2.40	0.0075	0.189
60	2.98	0.0050	0.127
75	3.69	0.0030	0.077
84	4.34	0.0019	0.049
90	4.63	0.0016	0.041
95	2.31	0.0079	0.201

Measure	Trask	Inman	Folk-Ward
Median, phi	2.40	2.40	2.40
Median, in.	0.0075	0.0075	0.0075
Median, mm	0.189	0.189	0.189
Mean, phi	1.30	1.95	2.10
Mean, in.	0.0160	0.0102	0.0092
Mean, mm	0.406	0.258	0.233
Sorting	3.081	2.389	1.787
Skewness	1.259	-0.187	-0.616
Kurtosis	0.173	-0.182	0.493
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.72
Coarse Sand	10	8.76
Medium Sand	40	24.88
Fine Sand	200	41.86
Silt/Clay	<200	23.78
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PTRI26-75.0-75.3
 Depth, ft: 75.0-75.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	3.14	1.96	1.96
0.3740	9.500	-3.25	3/8	8.11	5.07	7.04
0.2500	6.351	-2.67	1/4	6.25	3.91	10.95
0.1873	4.757	-2.25	4	3.49	2.18	13.13
0.1324	3.364	-1.75	6	5.13	3.21	16.34
0.0787	2.000	-1.00	10	10.73	6.71	23.05
0.0557	1.414	-0.50	14	10.31	6.45	29.50
0.0394	1.000	0.00	18	6.82	4.27	33.77
0.0278	0.707	0.50	25	8.19	5.12	38.89
0.0197	0.500	1.00	35	7.98	4.99	43.88
0.0166	0.420	1.25	40	3.24	2.03	45.91
0.0139	0.354	1.50	45	3.40	2.13	48.04
0.0098	0.250	2.00	60	7.59	4.75	52.78
0.0070	0.177	2.50	80	9.17	5.74	58.52
0.0049	0.125	3.00	120	12.22	7.64	66.16
0.0029	0.074	3.75	200	19.64	12.29	78.45
0.0021	0.053	4.25	270	10.05	6.29	84.74
0.0015	0.037	4.75	400	10.39	6.50	91.24
			PAN	14.01	8.76	100.00
TOTALS				159.86	100.00	100.00

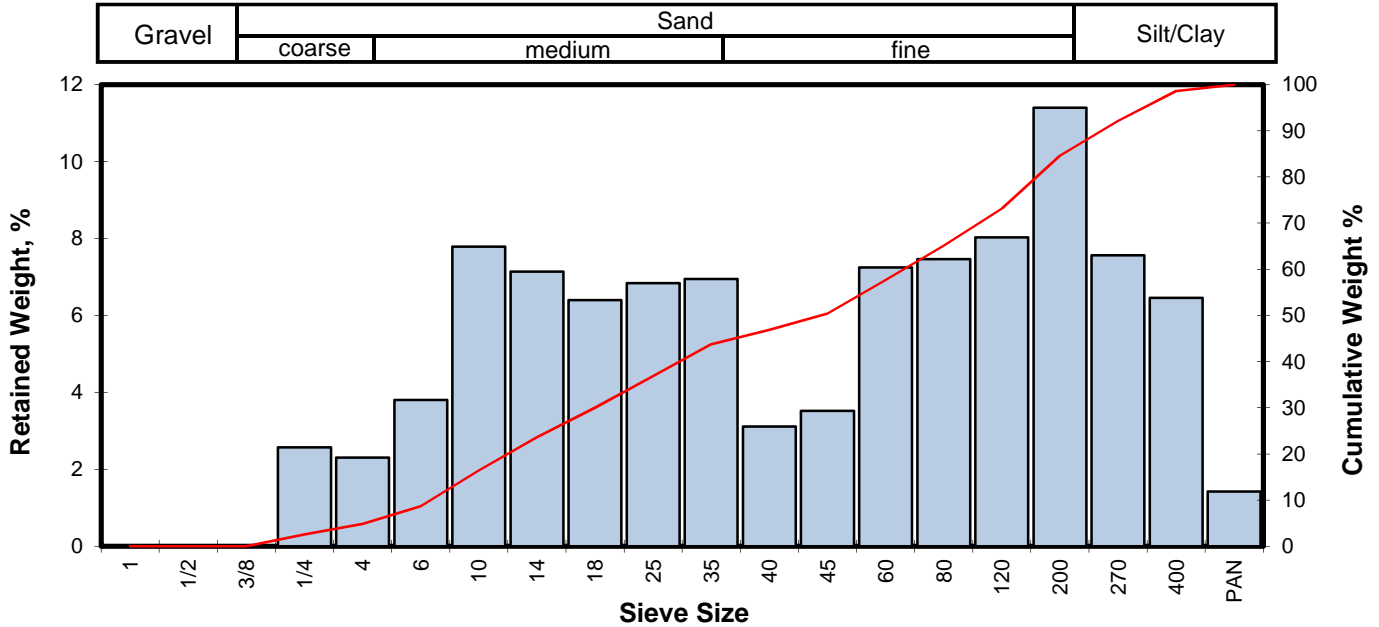
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.41	0.4176	10.608
10	-2.81	0.2757	7.002
16	-1.80	0.1374	3.489
25	-0.85	0.0709	1.801
40	0.61	0.0258	0.655
50	1.71	0.0121	0.306
60	2.60	0.0065	0.165
75	3.54	0.0034	0.086
84	4.19	0.0022	0.055
90	4.65	0.0016	0.040
95	2.71	0.0060	0.153

Measure	Trask	Inman	Folk-Ward
Median, phi	1.71	1.71	1.71
Median, in.	0.0121	0.0121	0.0121
Median, mm	0.306	0.306	0.306
Mean, phi	0.08	1.19	1.37
Mean, in.	0.0371	0.0172	0.0153
Mean, mm	0.944	0.437	0.388
Sorting	4.576	2.997	2.425
Skewness	1.285	-0.171	-0.422
Kurtosis	0.123	0.020	0.571
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	13.13
Coarse Sand	10	9.92
Medium Sand	40	22.86
Fine Sand	200	32.54
Silt/Clay	<200	21.55
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PTR126-103.7-104.0
 Depth, ft: 103.7-104.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	2.76	2.57	2.57
0.1873	4.757	-2.25	4	2.47	2.30	4.88
0.1324	3.364	-1.75	6	4.08	3.80	8.68
0.0787	2.000	-1.00	10	8.35	7.78	16.46
0.0557	1.414	-0.50	14	7.66	7.14	23.60
0.0394	1.000	0.00	18	6.86	6.39	30.00
0.0278	0.707	0.50	25	7.34	6.84	36.84
0.0197	0.500	1.00	35	7.45	6.94	43.78
0.0166	0.420	1.25	40	3.34	3.11	46.90
0.0139	0.354	1.50	45	3.78	3.52	50.42
0.0098	0.250	2.00	60	7.77	7.24	57.66
0.0070	0.177	2.50	80	8.01	7.47	65.13
0.0049	0.125	3.00	120	8.61	8.03	73.15
0.0029	0.074	3.75	200	12.23	11.40	84.55
0.0021	0.053	4.25	270	8.11	7.56	92.11
0.0015	0.037	4.75	400	6.93	6.46	98.57
			PAN	1.53	1.43	100.00
TOTALS				107.28	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.23	0.1852	4.703
10	-1.62	0.1212	3.079
16	-1.04	0.0812	2.063
25	-0.39	0.0516	1.311
40	0.73	0.0238	0.604
50	1.47	0.0142	0.361
60	2.16	0.0088	0.224
75	3.12	0.0045	0.115
84	3.71	0.0030	0.076
90	4.11	0.0023	0.058
95	4.47	0.0018	0.045

Measure	Trask	Inman	Folk-Ward
Median, phi	1.47	1.47	1.47
Median, in.	0.0142	0.0142	0.0142
Median, mm	0.361	0.361	0.361
Mean, phi	0.49	1.33	1.38
Mean, in.	0.0281	0.0156	0.0151
Mean, mm	0.713	0.397	0.384
Sorting	3.378	2.379	2.206
Skewness	1.075	-0.057	-0.081
Kurtosis	0.198	0.410	0.783
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	4.88
Coarse Sand	10	11.59
Medium Sand	40	30.43
Fine Sand	200	37.66
Silt/Clay	<200	15.45
Total		100

PARTICLE SIZE SUMMARY
 (METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
 PROJECT NO: 21-41400C, Phase M03D

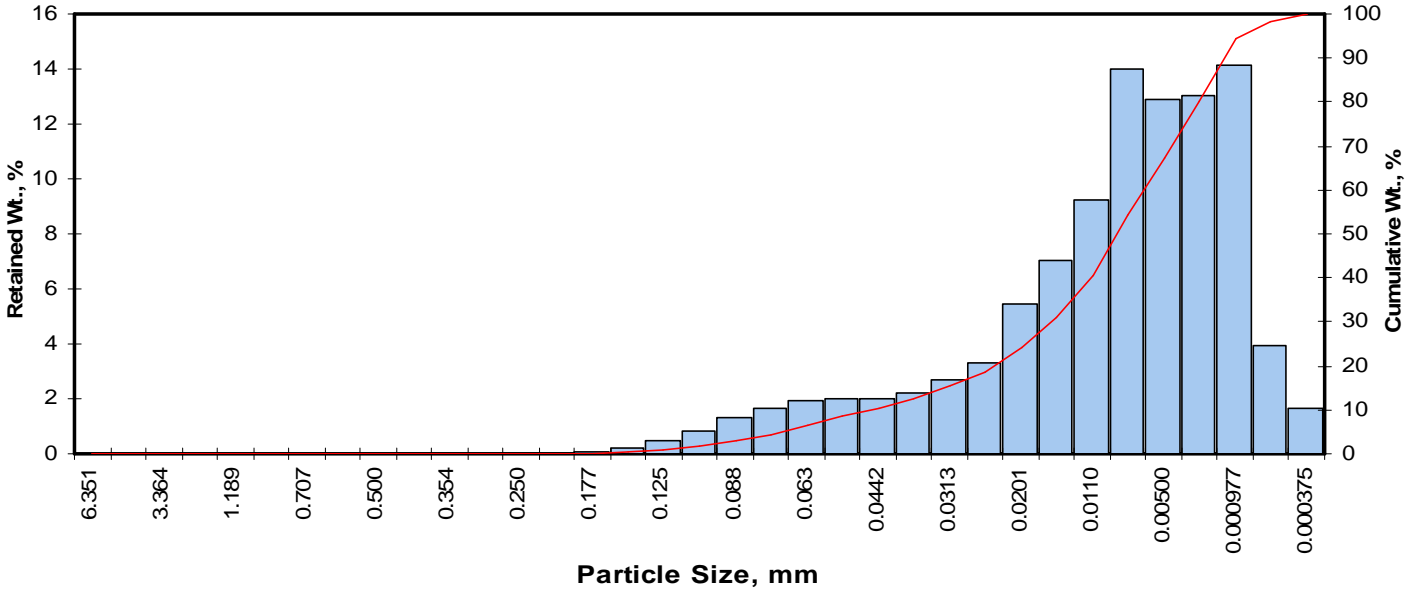
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-M200-112.5-113.0	112.5-113.0	Silt	0.009	0.00	0.00	0.00	4.50	62.78	32.71	95.50
PT-PCDB2-65.0-65.5	65.0-65.5	Silt	0.025	0.00	0.00	0.00	17.00	63.77	19.23	83.00
PT-PCDB3-44.0-44.5	44.0-44.5	Silt	0.005	0.00	0.00	0.00	6.13	44.58	49.29	93.87
PT-PCDB3-67.0-67.5	67.0-67.5	Silt	0.012	0.00	0.00	0.00	1.93	71.27	26.79	98.07
PT-PCDB3-103.5-104.0	103.5-103.7	Fine sand	0.060	0.00	0.00	12.09	35.11	36.70	16.11	52.80
PT-PCDB3-136.0-136.3	136.0-136.3	Silt	0.010	0.00	0.00	0.00	6.52	60.61	32.86	93.48
PT-PCDB3-142.5-142.8	142.5-142.8	Silt	0.050	0.00	0.00	0.00	30.38	65.38	4.23	69.62
PT-PCDB3-148.3-148.8	148.3-148.8	Silt	0.030	0.00	0.00	1.02	21.07	63.93	13.98	77.91
PT-RI17-93.0-93.5	93.0-93.2	Silt	0.036	0.00	0.00	0.49	23.25	64.56	11.70	76.26
PT-RI17-108.4-108.9	108.4-108.9	Silt	0.008	0.00	0.00	0.00	1.02	63.62	35.36	98.98
PT-RI28-71.3-71.8	71.3-71.5	Silt	0.041	0.00	0.00	1.51	31.08	50.29	17.12	67.41
PT-RI28-77.0-77.3	77.0-77.3	Silt	0.053	0.00	0.00	3.03	32.73	53.95	10.29	64.24
PT-RI28-99.5-100.0	99.5-100.0	Silt	0.009	0.00	0.00	0.00	1.65	65.82	32.53	98.35
PT-RI26-62.0-62.5	62.0-62.5	Silt	0.008	0.00	0.00	0.00	2.97	60.38	36.65	97.03
PT-RI26-73.0-73.3	73.0-73.3	Silt	0.063	0.00	0.00	1.45	40.91	48.88	8.76	57.64
PT-RI26-108.5-109.0	108.5-108.7	Silt	0.017	0.00	0.00	0.00	4.26	78.52	17.22	95.74
PT-RI26-114.0-114.5	114.0-114.5	Silt	0.027	0.00	0.00	0.00	14.51	71.48	14.01	85.49

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-M200-112.5-113.0
Depth, ft: 112.5-113.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.05	0.05	0.06
0.0059	0.149	2.75	100	0.19	0.19	0.25
0.0049	0.125	3.00	120	0.46	0.46	0.71
0.0041	0.105	3.25	140	0.84	0.84	1.55
0.0035	0.088	3.50	170	1.28	1.28	2.83
0.0029	0.074	3.75	200	1.67	1.67	4.50
0.0025	0.063	4.00	230	1.92	1.92	6.42
0.0021	0.053	4.25	270	1.99	1.99	8.42
0.00174	0.0442	4.50	325	2.03	2.03	10.45
0.00146	0.0372	4.75	400	2.23	2.23	12.68
0.00123	0.0313	5.00	450	2.66	2.66	15.35
0.000986	0.0250	5.32	500	3.33	3.33	18.68
0.000790	0.0201	5.64	635	5.43	5.44	24.12
0.000615	0.0156	6.00		7.00	7.01	31.13
0.000435	0.0110	6.50		9.21	9.22	40.35
0.000308	0.00781	7.00		14.00	14.02	54.37
0.000197	0.00500	7.65		12.90	12.92	67.29
0.000077	0.00195	9.00		13.00	13.02	80.30
0.000038	0.000977	10.00		14.10	14.12	94.42
0.000019	0.000488	11.00		3.91	3.92	98.34
0.000015	0.000375	11.38		1.66	1.66	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.81	0.0028	0.071
10	4.44	0.0018	0.046
16	5.06	0.0012	0.030
25	5.69	0.0008	0.019
40	6.48	0.0004	0.011
50	6.84	0.0003	0.009
60	7.28	0.0003	0.006
75	8.45	0.0001	0.003
84	9.26	0.0001	0.002
90	9.69	0.0000	0.001
95	10.15	0.0000	0.001

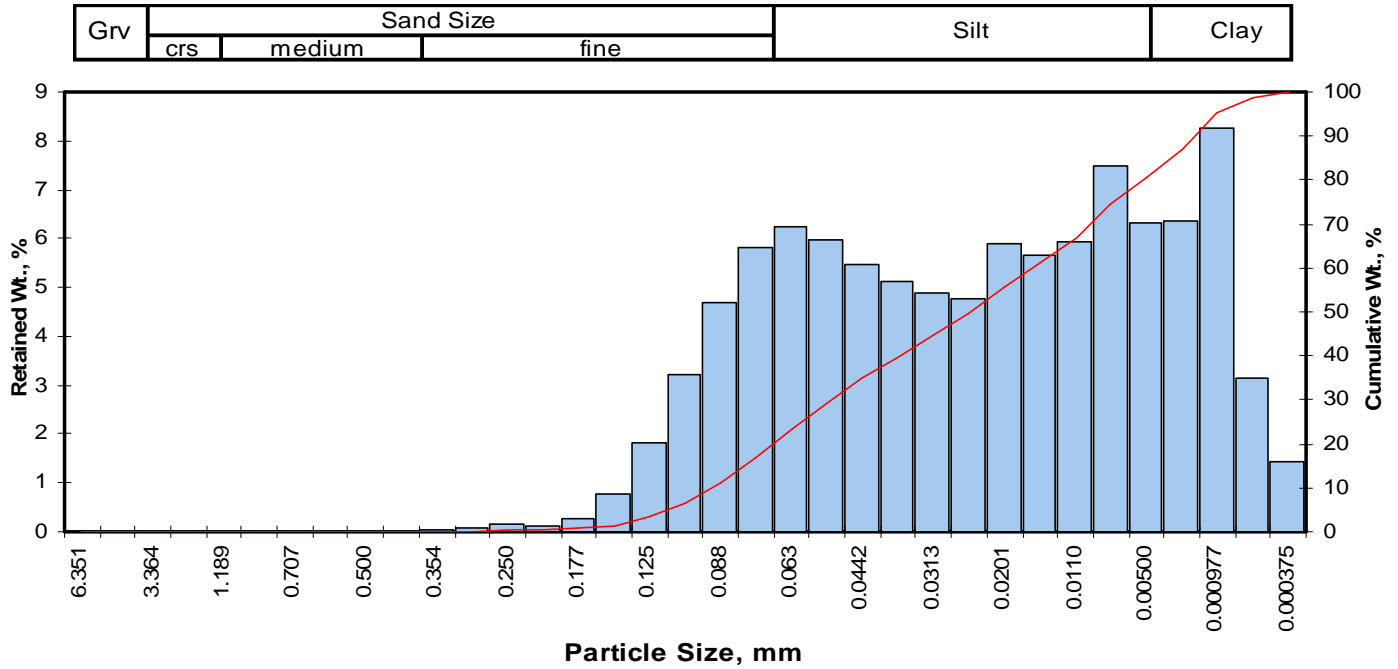
Measure	Trask	Inman	Folk-Ward
Median, phi	6.84	6.84	6.84
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.009	0.009	0.009
Mean, phi	6.49	7.16	7.06
Mean, in.	0.0004	0.0003	0.0003
Mean, mm	0.011	0.007	0.008
Sorting	2.605	2.100	2.009
Skewness	0.857	0.151	0.097
Kurtosis	0.185	0.508	0.939

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	4.50
Silt	>0.005 mm	62.78
Clay	<0.005 mm	32.71
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-PCDB2-65.0-65.5
Depth, ft: 65.0-65.5



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.05	0.05	0.05
0.0117	0.297	1.75	50	0.10	0.10	0.15
0.0098	0.250	2.00	60	0.15	0.15	0.30
0.0083	0.210	2.25	70	0.11	0.11	0.41
0.0070	0.177	2.50	80	0.27	0.27	0.68
0.0059	0.149	2.75	100	0.79	0.79	1.47
0.0049	0.125	3.00	120	1.81	1.81	3.28
0.0041	0.105	3.25	140	3.20	3.20	6.49
0.0035	0.088	3.50	170	4.69	4.70	11.18
0.0029	0.074	3.75	200	5.81	5.82	17.00
0.0025	0.063	4.00	230	6.22	6.23	23.23
0.0021	0.053	4.25	270	5.98	5.99	29.22
0.00174	0.0442	4.50	325	5.48	5.49	34.71
0.00146	0.0372	4.75	400	5.11	5.12	39.82
0.00123	0.0313	5.00	450	4.89	4.90	44.72
0.000986	0.0250	5.32	500	4.77	4.78	49.50
0.000790	0.0201	5.64	635	5.90	5.91	55.41
0.000615	0.0156	6.00		5.65	5.66	61.06
0.000435	0.0110	6.50		5.92	5.93	66.99
0.000308	0.00781	7.00		7.46	7.47	74.46
0.000197	0.00500	7.65		6.30	6.31	80.77
0.000077	0.00195	9.00		6.35	6.36	87.13
0.000038	0.000977	10.00		8.27	8.28	95.41
0.000019	0.000488	11.00		3.14	3.14	98.56
0.000015	0.000375	11.38		1.44	1.44	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.13	0.0045	0.114
10	3.44	0.0036	0.092
16	3.71	0.0030	0.077
25	4.07	0.0023	0.059
40	4.76	0.0015	0.037
50	5.35	0.0010	0.025
60	5.93	0.0006	0.016
75	7.05	0.0003	0.008
84	8.33	0.0001	0.003
90	9.35	0.0001	0.002
95	9.95	0.0000	0.001

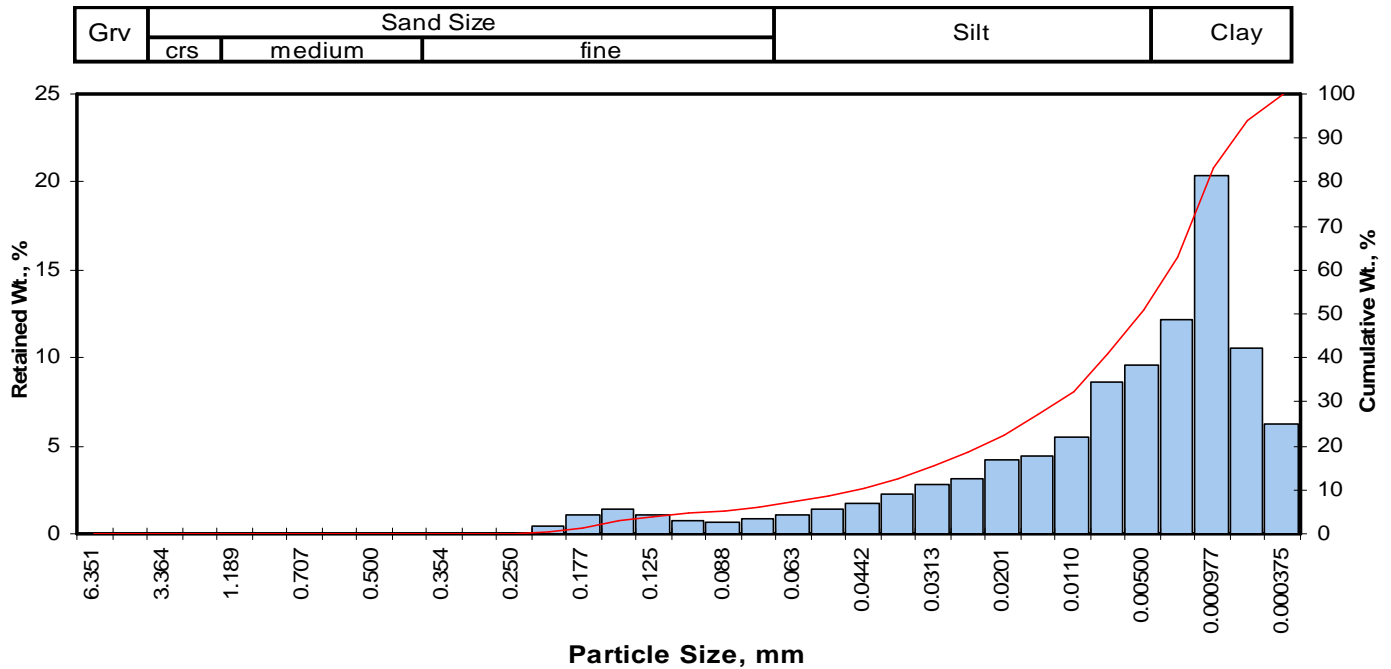
Measure	Trask	Inman	Folk-Ward
Median, phi	5.35	5.35	5.35
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.025	0.025	0.025
Mean, phi	4.90	6.02	5.80
Mean, in.	0.0013	0.0006	0.0007
Mean, mm	0.033	0.015	0.018
Sorting	2.810	2.313	2.189
Skewness	0.860	0.291	0.321
Kurtosis	0.286	0.473	0.937

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	17.00
Silt	>0.005 mm	63.77
Clay	<0.005 mm	19.23
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-PCDB3-44.0-44.5
Depth, ft: 65.0-65.5



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent	Cumulative Weight Percent greater than				
Inches	Millimeters						Weight percent	Phi Value	Particle Size		
								Inches	Millimeters		
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00	5	3.39	0.0037	0.095	
0.1873	4.757	-2.25	4	0.00	0.00	0.00	10	4.46	0.0018	0.046	
0.1324	3.364	-1.75	6	0.00	0.00	0.00	16	5.07	0.0012	0.030	
0.0787	2.000	-1.00	10	0.00	0.00	0.00	25	5.83	0.0007	0.018	
0.0468	1.189	-0.25	16	0.00	0.00	0.00	40	6.93	0.0003	0.008	
0.0331	0.841	0.25	20	0.00	0.00	0.00	50	7.60	0.0002	0.005	
0.0278	0.707	0.50	25	0.00	0.00	0.00	60	8.68	0.0001	0.002	
0.0234	0.595	0.75	30	0.00	0.00	0.00	75	9.60	0.0001	0.001	
0.0197	0.500	1.00	35	0.00	0.00	0.00	84	10.07	0.0000	0.001	
0.0166	0.420	1.25	40	0.00	0.00	0.00	90	10.64	0.0000	0.001	
0.0139	0.354	1.50	45	0.00	0.00	0.00	95	11.07	0.0000	0.000	
0.0117	0.297	1.75	50	0.00	0.00	0.00					
0.0098	0.250	2.00	60	0.05	0.05	0.05					
0.0083	0.210	2.25	70	0.40	0.40	0.45					
0.0070	0.177	2.50	80	1.05	1.06	1.51					
0.0059	0.149	2.75	100	1.34	1.35	2.85					
0.0049	0.125	3.00	120	1.04	1.05	3.90					
0.0041	0.105	3.25	140	0.71	0.71	4.61					
0.0035	0.088	3.50	170	0.67	0.67	5.29					
0.0029	0.074	3.75	200	0.84	0.85	6.13					
0.0025	0.063	4.00	230	1.08	1.09	7.22					
0.0021	0.053	4.25	270	1.35	1.36	8.58					
0.00174	0.0442	4.50	325	1.71	1.72	10.30					
0.00146	0.0372	4.75	400	2.24	2.25	12.55					
0.00123	0.0313	5.00	450	2.76	2.78	15.33					
0.000986	0.0250	5.32	500	3.09	3.11	18.44					
0.000790	0.0201	5.64	635	4.14	4.17	22.61					
0.000615	0.0156	6.00		4.44	4.47	27.08					
0.000435	0.0110	6.50		5.41	5.44	32.52					
0.000308	0.00781	7.00		8.55	8.60	41.12					
0.000197	0.00500	7.65		9.53	9.59	50.71					
0.000077	0.00195	9.00		12.10	12.18	62.89					
0.000038	0.000977	10.00		20.20	20.33	83.22					
0.000019	0.000488	11.00		10.50	10.57	93.78					
0.000015	0.000375	11.38		6.18	6.22	100.00					
TOTALS				99.40	100.00	100.00					

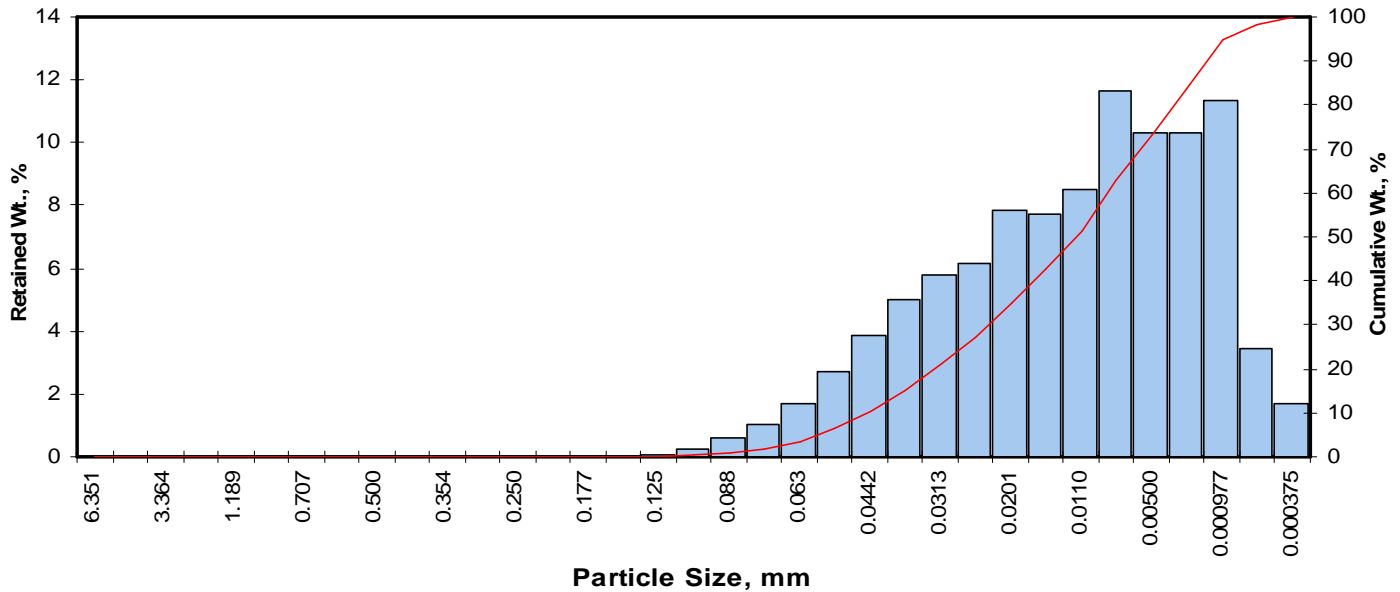
Measure	Trask	Inman	Folk-Ward
Median, phi	7.60	7.60	7.60
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.005	0.005	0.005
Mean, phi	6.73	7.57	7.58
Mean, in.	0.0004	0.0002	0.0002
Mean, mm	0.009	0.005	0.005
Sorting	3.685	2.503	2.415
Skewness	0.922	-0.010	-0.052
Kurtosis	0.181	0.535	0.837

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)	
Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	6.13
Silt	>0.005 mm	44.58
Clay	<0.005 mm	49.29
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-PCDB3-67.0-67.5
Depth, ft: 67.0-67.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.04	0.04	0.04
0.0041	0.105	3.25	140	0.25	0.25	0.29
0.0035	0.088	3.50	170	0.60	0.60	0.89
0.0029	0.074	3.75	200	1.04	1.04	1.93
0.0025	0.063	4.00	230	1.70	1.70	3.64
0.0021	0.053	4.25	270	2.68	2.69	6.32
0.00174	0.0442	4.50	325	3.85	3.86	10.18
0.00146	0.0372	4.75	400	5.01	5.02	15.20
0.00123	0.0313	5.00	450	5.78	5.79	20.99
0.000986	0.0250	5.32	500	6.13	6.14	27.13
0.000790	0.0201	5.64	635	7.84	7.86	34.99
0.000615	0.0156	6.00		7.72	7.74	42.72
0.000435	0.0110	6.50		8.52	8.54	51.26
0.000308	0.00781	7.00		11.60	11.62	62.89
0.000197	0.00500	7.65		10.30	10.32	73.21
0.000077	0.00195	9.00		10.30	10.32	83.53
0.000038	0.000977	10.00		11.30	11.32	94.85
0.000019	0.000488	11.00		3.43	3.44	98.29
0.000015	0.000375	11.38		1.71	1.71	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.13	0.0023	0.057
10	4.49	0.0018	0.045
16	4.78	0.0014	0.036
25	5.21	0.0011	0.027
40	5.87	0.0007	0.017
50	6.43	0.0005	0.012
60	6.88	0.0003	0.009
75	7.88	0.0002	0.004
84	9.04	0.0001	0.002
90	9.57	0.0001	0.001
95	10.04	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.43	6.43	6.43
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.012	0.012	0.012
Mean, phi	6.00	6.91	6.75
Mean, in.	0.0006	0.0003	0.0004
Mean, mm	0.016	0.008	0.009
Sorting	2.524	2.129	1.961
Skewness	0.921	0.229	0.226
Kurtosis	0.264	0.390	0.908

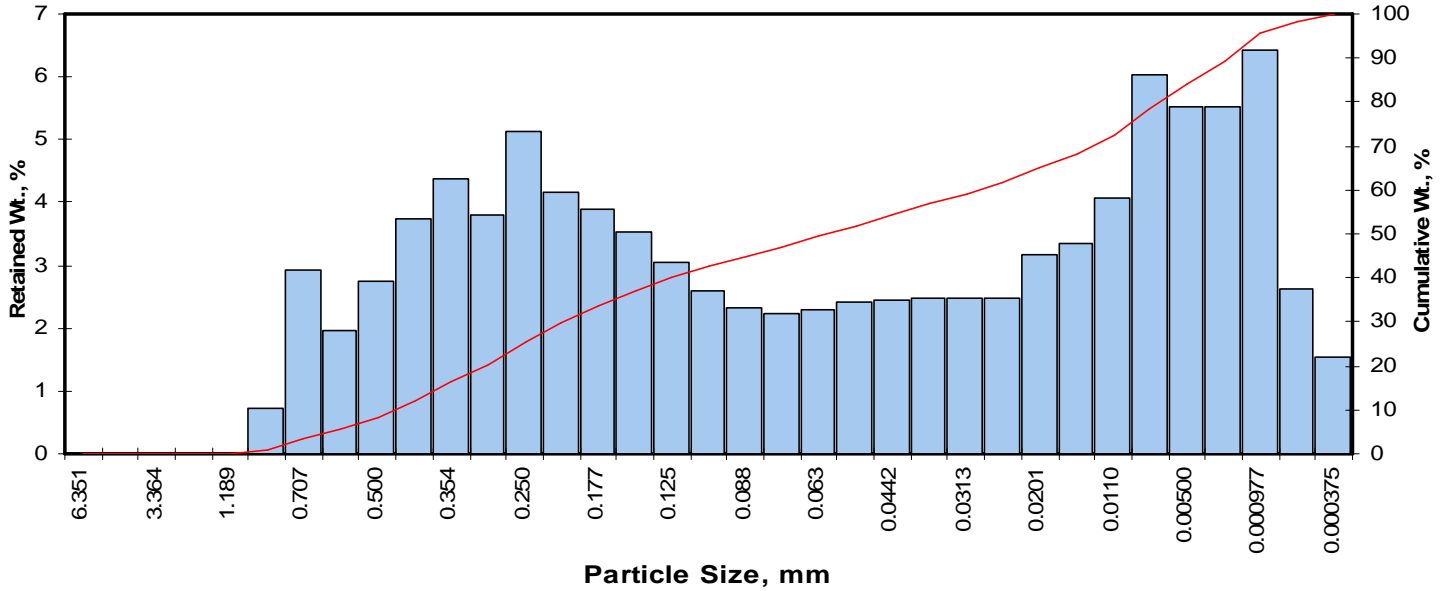
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	1.93
Silt	>0.005 mm	71.27
Clay	<0.005 mm	26.79
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-PCDB3-103.5-104.0
Depth, ft: 103.5-103.7

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.72	0.72	0.72
0.0278	0.707	0.50	25	2.93	2.93	3.66
0.0234	0.595	0.75	30	1.95	1.95	5.61
0.0197	0.500	1.00	35	2.74	2.74	8.35
0.0166	0.420	1.25	40	3.73	3.74	12.09
0.0139	0.354	1.50	45	4.37	4.38	16.47
0.0117	0.297	1.75	50	3.79	3.80	20.26
0.0098	0.250	2.00	60	5.11	5.12	25.38
0.0083	0.210	2.25	70	4.15	4.16	29.54
0.0070	0.177	2.50	80	3.90	3.91	33.44
0.0059	0.149	2.75	100	3.53	3.54	36.98
0.0049	0.125	3.00	120	3.05	3.05	40.03
0.0041	0.105	3.25	140	2.60	2.60	42.64
0.0035	0.088	3.50	170	2.31	2.31	44.95
0.0029	0.074	3.75	200	2.24	2.24	47.20
0.0025	0.063	4.00	230	2.30	2.30	49.50
0.0021	0.053	4.25	270	2.40	2.40	51.90
0.00174	0.0442	4.50	325	2.43	2.43	54.34
0.00146	0.0372	4.75	400	2.46	2.46	56.80
0.00123	0.0313	5.00	450	2.46	2.46	59.26
0.000986	0.0250	5.32	500	2.46	2.46	61.73
0.000790	0.0201	5.64	635	3.16	3.17	64.89
0.000615	0.0156	6.00		3.35	3.36	68.25
0.000435	0.0110	6.50		4.08	4.09	72.34
0.000308	0.00781	7.00		6.02	6.03	78.37
0.000197	0.00500	7.65		5.52	5.53	83.89
0.000077	0.00195	9.00		5.51	5.52	89.41
0.000038	0.000977	10.00		6.42	6.43	95.84
0.000019	0.000488	11.00		2.62	2.62	98.47
0.000015	0.000375	11.38		1.53	1.53	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.67	0.0247	0.628
10	1.11	0.0182	0.463
16	1.47	0.0142	0.360
25	1.98	0.0100	0.253
40	3.00	0.0049	0.125
50	4.05	0.0024	0.060
60	5.10	0.0012	0.029
75	6.72	0.0004	0.009
84	7.67	0.0002	0.005
90	9.09	0.0001	0.002
95	9.87	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.05	4.05	4.05
Median, in.	0.0024	0.0024	0.0024
Median, mm	0.060	0.060	0.060
Mean, phi	2.93	4.57	4.40
Mean, in.	0.0052	0.0017	0.0019
Mean, mm	0.131	0.042	0.047
Sorting	5.169	3.099	2.943
Skewness	0.813	0.168	0.216
Kurtosis	0.264	0.484	0.795

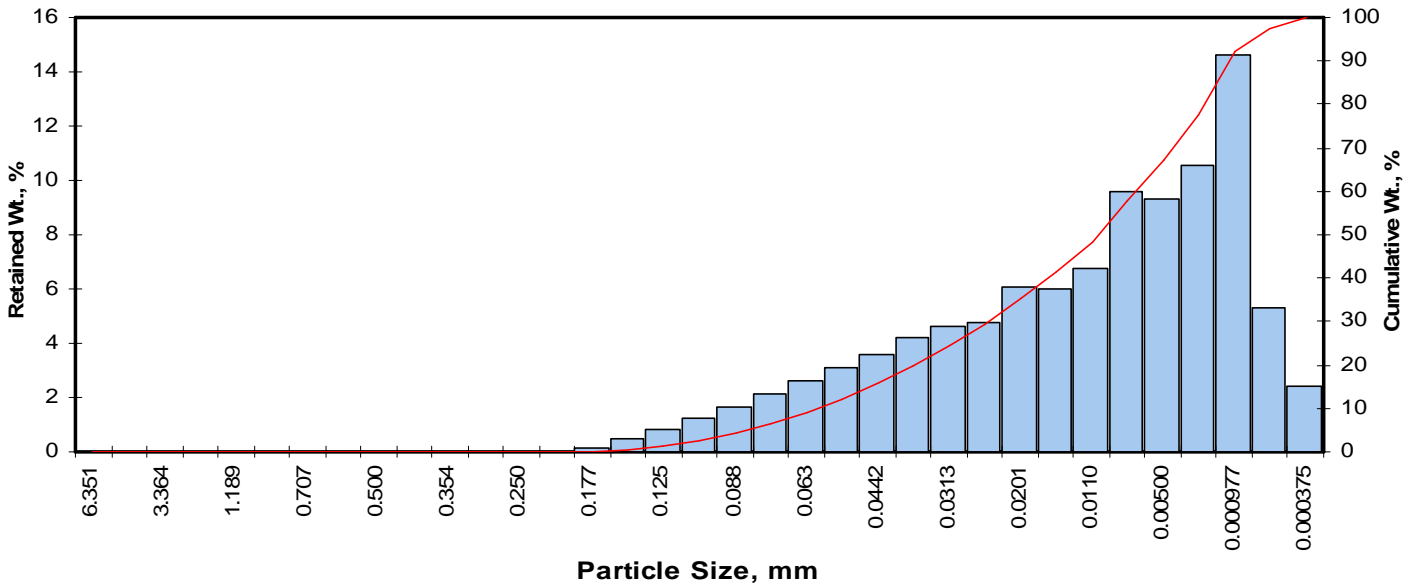
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	12.09
Fine Sand	200	35.11
Silt	>0.005 mm	36.70
Clay	<0.005 mm	16.11
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PT-PCDB3-136.0-136.3
 Depth, ft: 136.0-136.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.01	0.01	0.01
0.0070	0.177	2.50	80	0.14	0.14	0.15
0.0059	0.149	2.75	100	0.45	0.45	0.61
0.0049	0.125	3.00	120	0.85	0.85	1.46
0.0041	0.105	3.25	140	1.25	1.25	2.71
0.0035	0.088	3.50	170	1.68	1.68	4.39
0.0029	0.074	3.75	200	2.13	2.13	6.52
0.0025	0.063	4.00	230	2.59	2.59	9.12
0.0021	0.053	4.25	270	3.08	3.09	12.20
0.00174	0.0442	4.50	325	3.61	3.62	15.82
0.00146	0.0372	4.75	400	4.19	4.20	20.02
0.00123	0.0313	5.00	450	4.59	4.60	24.61
0.000986	0.0250	5.32	500	4.77	4.78	29.39
0.000790	0.0201	5.64	635	6.06	6.07	35.46
0.000615	0.0156	6.00		6.01	6.02	41.48
0.000435	0.0110	6.50		6.75	6.76	48.24
0.000308	0.00781	7.00		9.59	9.61	57.85
0.000197	0.00500	7.65		9.27	9.29	67.14
0.000077	0.00195	9.00		10.50	10.52	77.65
0.000038	0.000977	10.00		14.60	14.62	92.28
0.000019	0.000488	11.00		5.31	5.32	97.60
0.000015	0.000375	11.38		2.40	2.40	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.57	0.0033	0.084
10	4.07	0.0023	0.059
16	4.51	0.0017	0.044
25	5.03	0.0012	0.031
40	5.91	0.0007	0.017
50	6.59	0.0004	0.010
60	7.15	0.0003	0.007
75	8.66	0.0001	0.002
84	9.43	0.0001	0.001
90	9.84	0.0000	0.001
95	10.51	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.59	6.59	6.59
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.010	0.010	0.010
Mean, phi	5.91	6.97	6.85
Mean, in.	0.0007	0.0003	0.0003
Mean, mm	0.017	0.008	0.009
Sorting	3.522	2.462	2.282
Skewness	0.841	0.155	0.142
Kurtosis	0.242	0.410	0.783

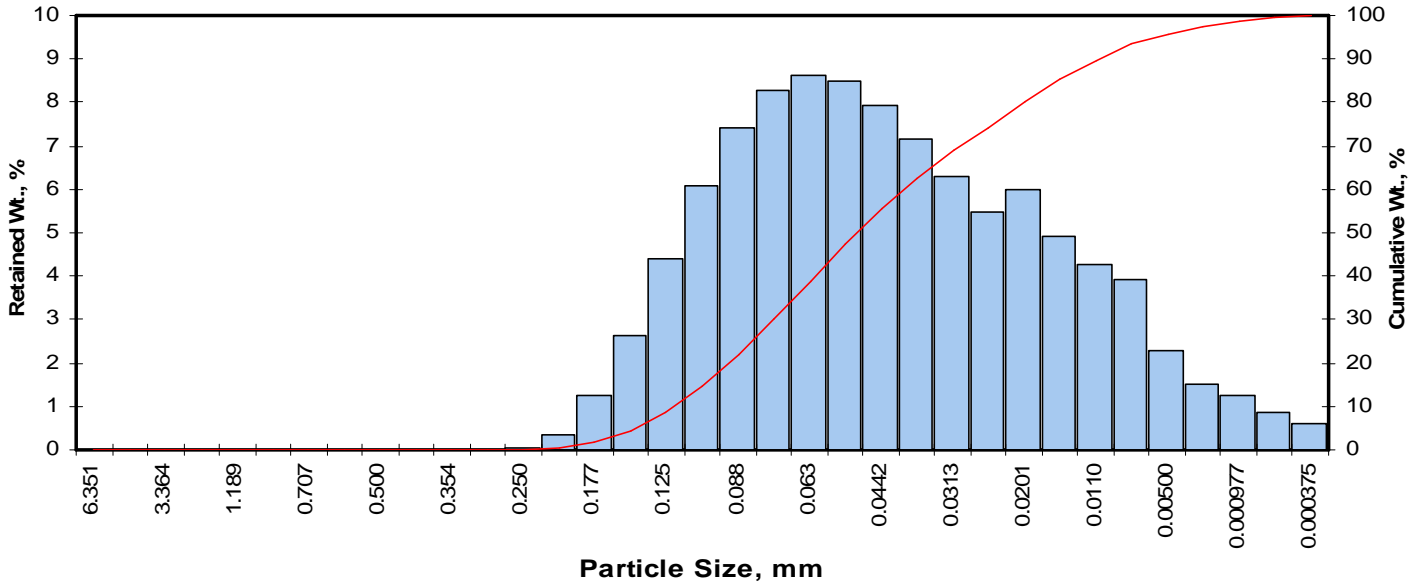
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	6.52
Silt	>0.005 mm	60.61
Clay	<0.005 mm	32.86
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-PCDB3-142.5-142.8
Depth, ft: 142.5-142.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.04	0.04	0.04
0.0083	0.210	2.25	70	0.35	0.35	0.39
0.0070	0.177	2.50	80	1.25	1.25	1.64
0.0059	0.149	2.75	100	2.63	2.63	4.27
0.0049	0.125	3.00	120	4.38	4.38	8.65
0.0041	0.105	3.25	140	6.06	6.06	14.71
0.0035	0.088	3.50	170	7.40	7.40	22.12
0.0029	0.074	3.75	200	8.26	8.27	30.38
0.0025	0.063	4.00	230	8.61	8.62	39.00
0.0021	0.053	4.25	270	8.47	8.48	47.48
0.00174	0.0442	4.50	325	7.93	7.94	55.41
0.00146	0.0372	4.75	400	7.16	7.16	62.58
0.00123	0.0313	5.00	450	6.28	6.28	68.86
0.000986	0.0250	5.32	500	5.48	5.48	74.34
0.000790	0.0201	5.64	635	6.00	6.00	80.35
0.000615	0.0156	6.00		4.93	4.93	85.28
0.000435	0.0110	6.50		4.27	4.27	89.55
0.000308	0.00781	7.00		3.94	3.94	93.50
0.000197	0.00500	7.65		2.27	2.27	95.77
0.000077	0.00195	9.00		1.49	1.49	97.26
0.000038	0.000977	10.00		1.26	1.26	98.52
0.000019	0.000488	11.00		0.86	0.86	99.38
0.000015	0.000375	11.38		0.62	0.62	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.79	0.0057	0.144
10	3.06	0.0047	0.120
16	3.29	0.0040	0.102
25	3.59	0.0033	0.083
40	4.03	0.0024	0.061
50	4.33	0.0020	0.050
60	4.66	0.0016	0.040
75	5.35	0.0010	0.024
84	5.91	0.0007	0.017
90	6.56	0.0004	0.011
95	7.43	0.0002	0.006

Measure	Trask	Inman	Folk-Ward
Median, phi	4.33	4.33	4.33
Median, in.	0.0020	0.0020	0.0020
Median, mm	0.050	0.050	0.050
Mean, phi	4.22	4.60	4.51
Mean, in.	0.0021	0.0016	0.0017
Mean, mm	0.054	0.041	0.044
Sorting	1.845	1.307	1.356
Skewness	0.907	0.207	0.272
Kurtosis	0.268	0.774	1.075

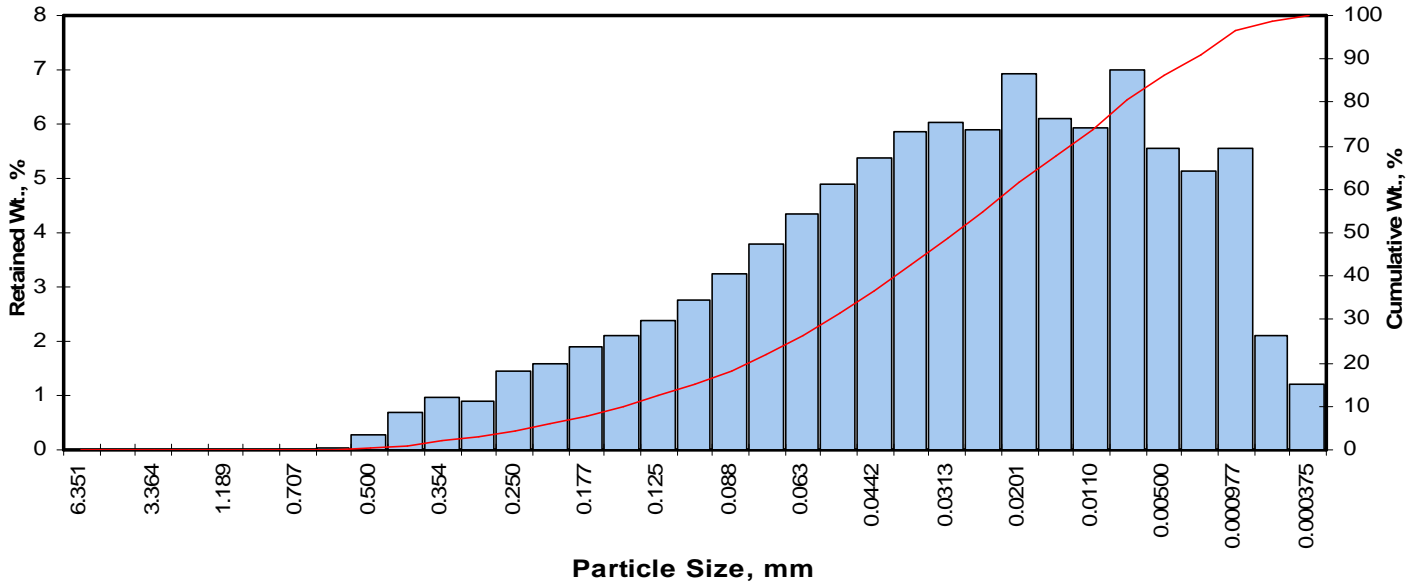
Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	30.38
Silt	>0.005 mm	65.38
Clay	<0.005 mm	4.23
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-PCDB3-148.3-148.8
Depth, ft: 148.3-148.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.04	0.04	0.05
0.0197	0.500	1.00	35	0.28	0.28	0.33
0.0166	0.420	1.25	40	0.69	0.69	1.02
0.0139	0.354	1.50	45	0.96	0.96	1.98
0.0117	0.297	1.75	50	0.90	0.90	2.88
0.0098	0.250	2.00	60	1.46	1.46	4.34
0.0083	0.210	2.25	70	1.58	1.58	5.92
0.0070	0.177	2.50	80	1.90	1.90	7.82
0.0059	0.149	2.75	100	2.11	2.11	9.93
0.0049	0.125	3.00	120	2.36	2.36	12.30
0.0041	0.105	3.25	140	2.74	2.74	15.04
0.0035	0.088	3.50	170	3.25	3.25	18.29
0.0029	0.074	3.75	200	3.79	3.79	22.09
0.0025	0.063	4.00	230	4.34	4.34	26.43
0.0021	0.053	4.25	270	4.88	4.88	31.32
0.00174	0.0442	4.50	325	5.39	5.40	36.71
0.00146	0.0372	4.75	400	5.87	5.88	42.59
0.00123	0.0313	5.00	450	6.04	6.05	48.63
0.000986	0.0250	5.32	500	5.89	5.90	54.53
0.000790	0.0201	5.64	635	6.92	6.93	61.45
0.000615	0.0156	6.00		6.09	6.10	67.55
0.000435	0.0110	6.50		5.94	5.95	73.49
0.000308	0.00781	7.00		6.98	6.99	80.48
0.000197	0.00500	7.65		5.53	5.54	86.02
0.000077	0.00195	9.00		5.12	5.12	91.14
0.000038	0.000977	10.00		5.55	5.56	96.70
0.000019	0.000488	11.00		2.10	2.10	98.80
0.000015	0.000375	11.38		1.20	1.20	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.10	0.0092	0.233
10	2.76	0.0058	0.148
16	3.32	0.0039	0.100
25	3.92	0.0026	0.066
40	4.64	0.0016	0.040
50	5.07	0.0012	0.030
60	5.57	0.0008	0.021
75	6.61	0.0004	0.010
84	7.41	0.0002	0.006
90	8.70	0.0001	0.002
95	9.69	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.07	5.07	5.07
Median, in.	0.0012	0.0012	0.0012
Median, mm	0.030	0.030	0.030
Mean, phi	4.71	5.37	5.27
Mean, in.	0.0015	0.0010	0.0010
Mean, mm	0.038	0.024	0.026
Sorting	2.540	2.043	2.172
Skewness	0.878	0.143	0.180
Kurtosis	0.192	0.858	1.156

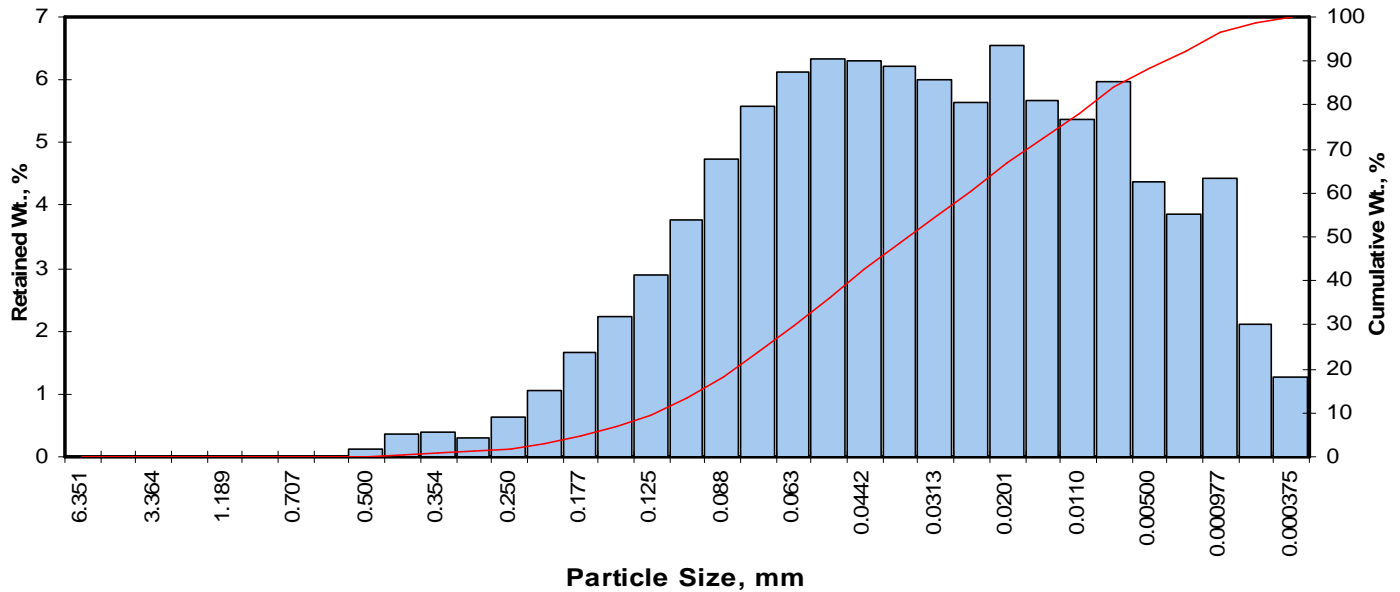
Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.02
Fine Sand	200	21.07
Silt	>0.005 mm	63.93
Clay	<0.005 mm	13.98
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-RI17-93.0-93.5
Depth, ft: 93.0-93.2

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.13	0.13	0.14
0.0166	0.420	1.25	40	0.35	0.35	0.49
0.0139	0.354	1.50	45	0.39	0.39	0.88
0.0117	0.297	1.75	50	0.30	0.30	1.19
0.0098	0.250	2.00	60	0.62	0.62	1.81
0.0083	0.210	2.25	70	1.05	1.05	2.86
0.0070	0.177	2.50	80	1.67	1.67	4.53
0.0059	0.149	2.75	100	2.22	2.22	6.75
0.0049	0.125	3.00	120	2.89	2.89	9.65
0.0041	0.105	3.25	140	3.77	3.78	13.43
0.0035	0.088	3.50	170	4.74	4.75	18.17
0.0029	0.074	3.75	200	5.56	5.57	23.74
0.0025	0.063	4.00	230	6.10	6.11	29.85
0.0021	0.053	4.25	270	6.33	6.34	36.19
0.00174	0.0442	4.50	325	6.31	6.32	42.51
0.00146	0.0372	4.75	400	6.21	6.22	48.73
0.00123	0.0313	5.00	450	5.98	5.99	54.72
0.000986	0.0250	5.32	500	5.64	5.65	60.37
0.000790	0.0201	5.64	635	6.53	6.54	66.91
0.000615	0.0156	6.00		5.66	5.67	72.58
0.000435	0.0110	6.50		5.36	5.37	77.95
0.000308	0.00781	7.00		5.95	5.96	83.91
0.000197	0.00500	7.65		4.38	4.39	88.30
0.000077	0.00195	9.00		3.86	3.87	92.17
0.000038	0.000977	10.00		4.43	4.44	96.60
0.000019	0.000488	11.00		2.11	2.11	98.72
0.000015	0.000375	11.38		1.28	1.28	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.55	0.0067	0.170
10	3.02	0.0048	0.123
16	3.39	0.0038	0.096
25	3.80	0.0028	0.072
40	4.40	0.0019	0.047
50	4.80	0.0014	0.036
60	5.30	0.0010	0.025
75	6.22	0.0005	0.013
84	7.01	0.0003	0.008
90	8.24	0.0001	0.003
95	9.64	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.80	4.80	4.80
Median, in.	0.0014	0.0014	0.0014
Median, mm	0.036	0.036	0.036
Mean, phi	4.55	5.20	5.07
Mean, in.	0.0017	0.0011	0.0012
Mean, mm	0.043	0.027	0.030
Sorting	2.316	1.814	1.980
Skewness	0.864	0.219	0.292
Kurtosis	0.244	0.953	1.198

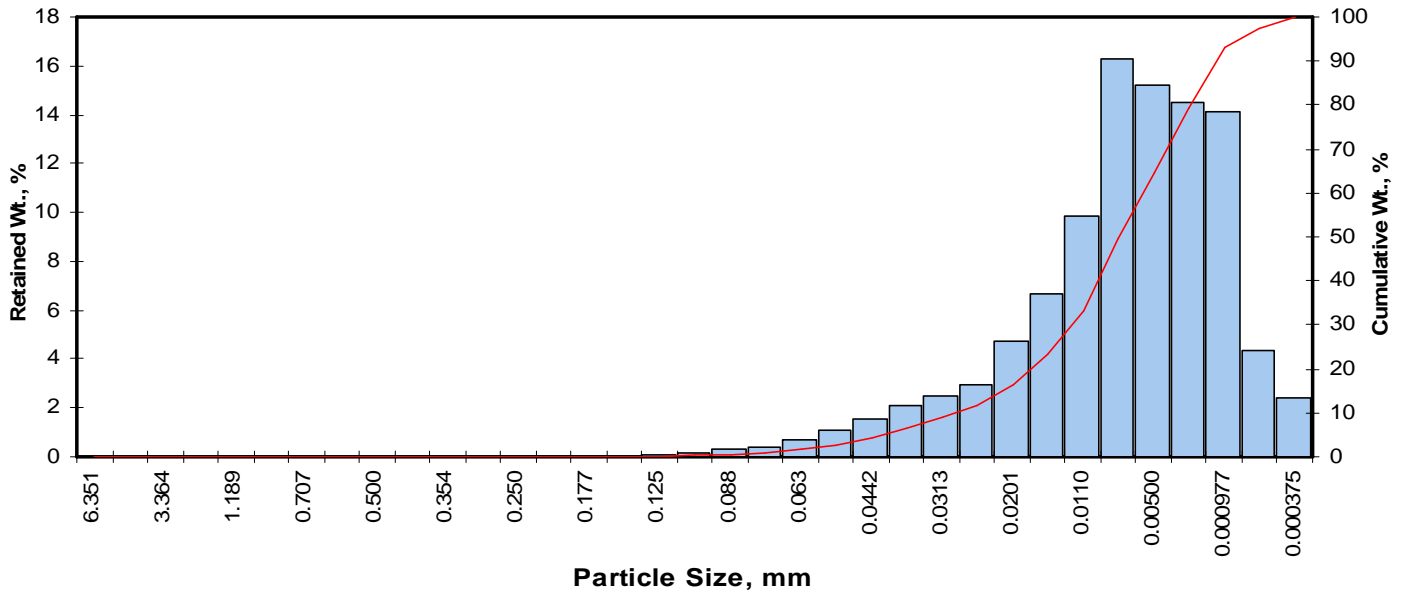
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.49
Fine Sand	200	23.25
Silt	>0.005 mm	64.56
Clay	<0.005 mm	11.70
Total		100

Client: Ranboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-RI17-108.4-108.9
Depth, ft: 108.4-108.9

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.03	0.03	0.04
0.0049	0.125	3.00	120	0.10	0.10	0.14
0.0041	0.105	3.25	140	0.19	0.19	0.33
0.0035	0.088	3.50	170	0.28	0.28	0.61
0.0029	0.074	3.75	200	0.41	0.41	1.02
0.0025	0.063	4.00	230	0.66	0.66	1.68
0.0021	0.053	4.25	270	1.07	1.07	2.75
0.00174	0.0442	4.50	325	1.56	1.56	4.31
0.00146	0.0372	4.75	400	2.06	2.06	6.37
0.00123	0.0313	5.00	450	2.48	2.48	8.85
0.000986	0.0250	5.32	500	2.94	2.94	11.80
0.000790	0.0201	5.64	635	4.75	4.75	16.55
0.000615	0.0156	6.00		6.69	6.70	23.25
0.000435	0.0110	6.50		9.86	9.87	33.11
0.000308	0.00781	7.00		16.30	16.31	49.43
0.000197	0.00500	7.65		15.20	15.21	64.64
0.000077	0.00195	9.00		14.50	14.51	79.15
0.000038	0.000977	10.00		14.10	14.11	93.26
0.000019	0.000488	11.00		4.34	4.34	97.61
0.000015	0.000375	11.38		2.39	2.39	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.58	0.0016	0.042
10	5.12	0.0011	0.029
16	5.60	0.0008	0.021
25	6.09	0.0006	0.015
40	6.71	0.0004	0.010
50	7.02	0.0003	0.008
60	7.45	0.0002	0.006
75	8.61	0.0001	0.003
84	9.34	0.0001	0.002
90	9.77	0.0000	0.001
95	10.40	0.0000	0.001

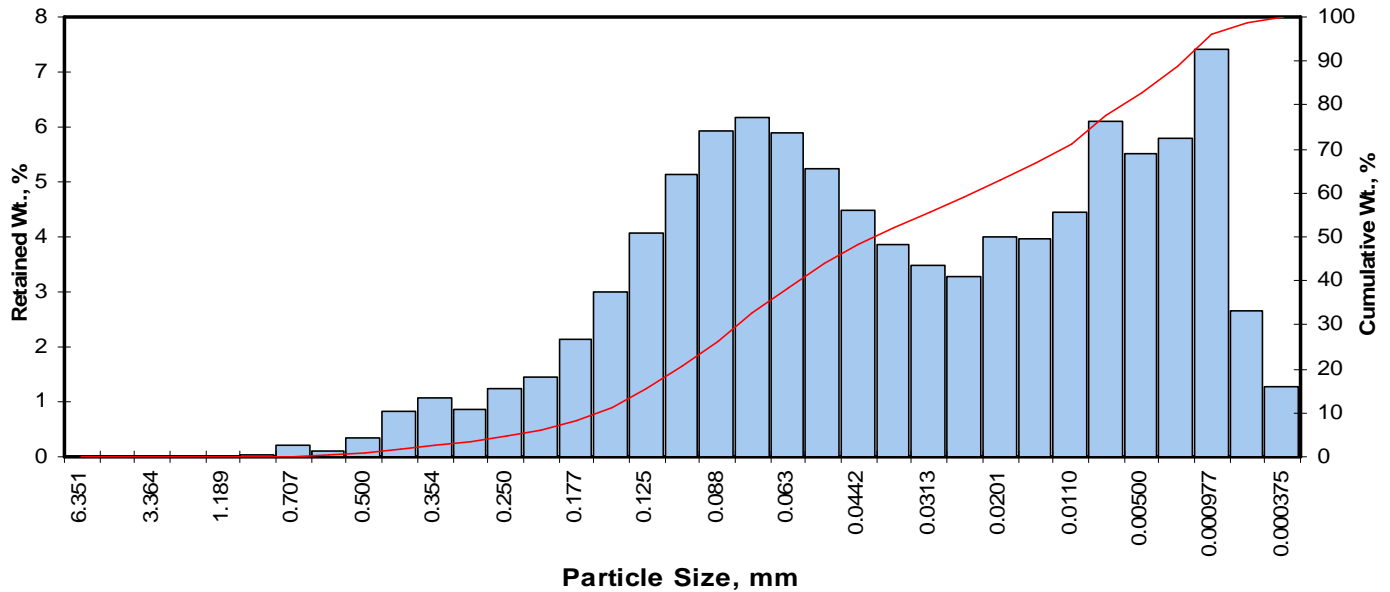
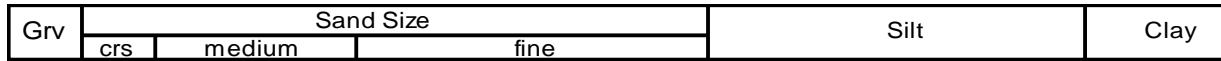
Measure	Trask	Inman	Folk-Ward
Median, phi	7.02	7.02	7.02
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.008	0.008	0.008
Mean, phi	6.86	7.47	7.32
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.009	0.006	0.006
Sorting	2.398	1.870	1.816
Skewness	0.798	0.240	0.200
Kurtosis	0.221	0.555	0.945

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	1.02
Silt	>0.005 mm	63.62
Clay	<0.005 mm	35.36
Total	Total	100

Client: Ranboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-RI28-71.3-71.8
Depth, ft: 71.3-71.5



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent	Cumulative Weight Percent greater than					
Inches	Millimeters						Weight percent	Phi Value	Particle Size			
						Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00		5	2.05	0.0095	0.241	
0.1873	4.757	-2.25	4	0.00	0.00	0.00		10	2.64	0.0063	0.160	
0.1324	3.364	-1.75	6	0.00	0.00	0.00		16	3.03	0.0048	0.122	
0.0787	2.000	-1.00	10	0.00	0.00	0.00		25	3.44	0.0036	0.092	
0.0468	1.189	-0.25	16	0.00	0.00	0.00		40	4.07	0.0023	0.059	
0.0331	0.841	0.25	20	0.02	0.02	0.02		50	4.61	0.0016	0.041	
0.0278	0.707	0.50	25	0.19	0.19	0.21		60	5.41	0.0009	0.024	
0.0234	0.595	0.75	30	0.10	0.10	0.31		75	6.81	0.0004	0.009	
0.0197	0.500	1.00	35	0.36	0.36	0.67		84	7.91	0.0002	0.004	
0.0166	0.420	1.25	40	0.84	0.84	1.51		90	9.18	0.0001	0.002	
0.0139	0.354	1.50	45	1.06	1.06	2.57		95	9.85	0.0000	0.001	
0.0117	0.297	1.75	50	0.87	0.87	3.44						
0.0098	0.250	2.00	60	1.25	1.25	4.70						
0.0083	0.210	2.25	70	1.45	1.45	6.15						
0.0070	0.177	2.50	80	2.13	2.13	8.28						
0.0059	0.149	2.75	100	2.99	2.99	11.27						
0.0049	0.125	3.00	120	4.07	4.07	15.35						
0.0041	0.105	3.25	140	5.13	5.14	20.48						
0.0035	0.088	3.50	170	5.91	5.92	26.40						
0.0029	0.074	3.75	200	6.18	6.19	32.59						
0.0025	0.063	4.00	230	5.90	5.91	38.50						
0.0021	0.053	4.25	270	5.25	5.26	43.75						
0.00174	0.0442	4.50	325	4.49	4.50	48.25						
0.00146	0.0372	4.75	400	3.87	3.87	52.12						
0.00123	0.0313	5.00	450	3.47	3.47	55.60						
0.000986	0.0250	5.32	500	3.26	3.26	58.86						
0.000790	0.0201	5.64	635	4.00	4.00	62.87						
0.000615	0.0156	6.00		3.97	3.97	66.84						
0.000435	0.0110	6.50		4.44	4.45	71.29						
0.000308	0.00781	7.00		6.08	6.09	77.37						
0.000197	0.00500	7.65		5.50	5.51	82.88						
0.000077	0.00195	9.00		5.78	5.79	88.67						
0.000038	0.000977	10.00		7.41	7.42	96.09						
0.000019	0.000488	11.00		2.65	2.65	98.74						
0.000015	0.000375	11.38		1.26	1.26	100.00						
TOTALS				99.90	100.00	100.00						

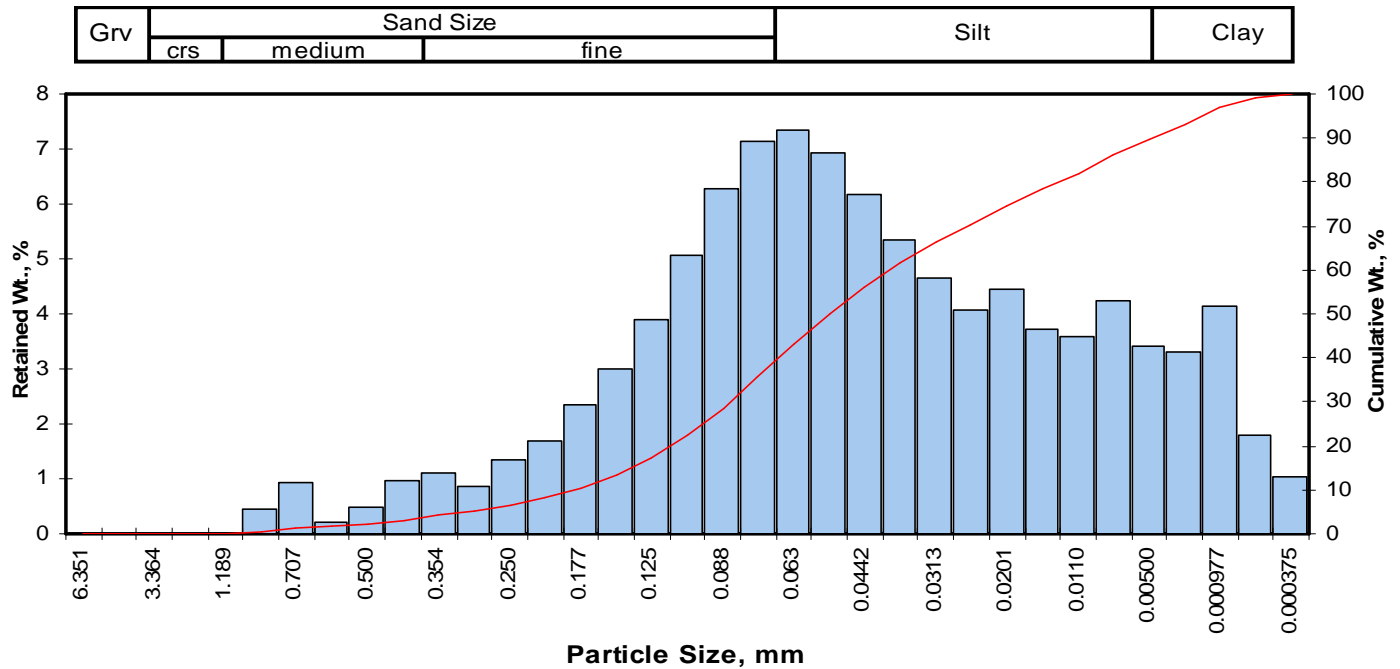
Measure	Trask	Inman	Folk-Ward
Median, phi	4.61	4.61	4.61
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.041	0.041	0.041
Mean, phi	4.31	5.47	5.18
Mean, in.	0.0020	0.0009	0.0011
Mean, mm	0.051	0.023	0.028
Sorting	3.209	2.438	2.401
Skewness	0.702	0.351	0.347
Kurtosis	0.263	0.600	0.950

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.51
Fine Sand	200	31.08
Silt	>0.005 mm	50.29
Clay	<0.005 mm	17.12
Total		100

Client: Ranboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-RI28-77.0-77.3
Depth, ft: 77.0-77.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.46	0.46	0.46
0.0278	0.707	0.50	25	0.92	0.92	1.38
0.0234	0.595	0.75	30	0.21	0.21	1.59
0.0197	0.500	1.00	35	0.49	0.49	2.08
0.0166	0.420	1.25	40	0.95	0.95	3.03
0.0139	0.354	1.50	45	1.09	1.09	4.12
0.0117	0.297	1.75	50	0.86	0.86	4.99
0.0098	0.250	2.00	60	1.36	1.36	6.35
0.0083	0.210	2.25	70	1.69	1.69	8.04
0.0070	0.177	2.50	80	2.35	2.35	10.39
0.0059	0.149	2.75	100	2.99	2.99	13.38
0.0049	0.125	3.00	120	3.88	3.88	17.27
0.0041	0.105	3.25	140	5.06	5.07	22.33
0.0035	0.088	3.50	170	6.28	6.29	28.62
0.0029	0.074	3.75	200	7.13	7.14	35.76
0.0025	0.063	4.00	230	7.35	7.36	43.12
0.0021	0.053	4.25	270	6.94	6.95	50.07
0.00174	0.0442	4.50	325	6.16	6.17	56.23
0.00146	0.0372	4.75	400	5.35	5.36	61.59
0.00123	0.0313	5.00	450	4.64	4.65	66.23
0.000986	0.0250	5.32	500	4.06	4.06	70.30
0.000790	0.0201	5.64	635	4.45	4.45	74.75
0.000615	0.0156	6.00		3.73	3.73	78.49
0.000435	0.0110	6.50		3.58	3.58	82.07
0.000308	0.00781	7.00		4.22	4.22	86.29
0.000197	0.00500	7.65		3.41	3.41	89.71
0.000077	0.00195	9.00		3.32	3.32	93.03
0.000038	0.000977	10.00		4.12	4.12	97.16
0.000019	0.000488	11.00		1.80	1.80	98.96
0.000015	0.000375	11.38		1.04	1.04	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.75	0.0117	0.297
10	2.46	0.0072	0.182
16	2.92	0.0052	0.132
25	3.36	0.0038	0.098
40	3.89	0.0026	0.067
50	4.25	0.0021	0.053
60	4.68	0.0015	0.039
75	5.66	0.0008	0.020
84	6.73	0.0004	0.009
90	7.76	0.0002	0.005
95	9.48	0.0001	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.25	4.25	4.25
Median, in.	0.0021	0.0021	0.0021
Median, mm	0.053	0.053	0.053
Mean, phi	4.09	4.82	4.63
Mean, in.	0.0023	0.0014	0.0016
Mean, mm	0.059	0.035	0.040
Sorting	2.225	1.905	2.123
Skewness	0.834	0.302	0.328
Kurtosis	0.220	1.027	1.372

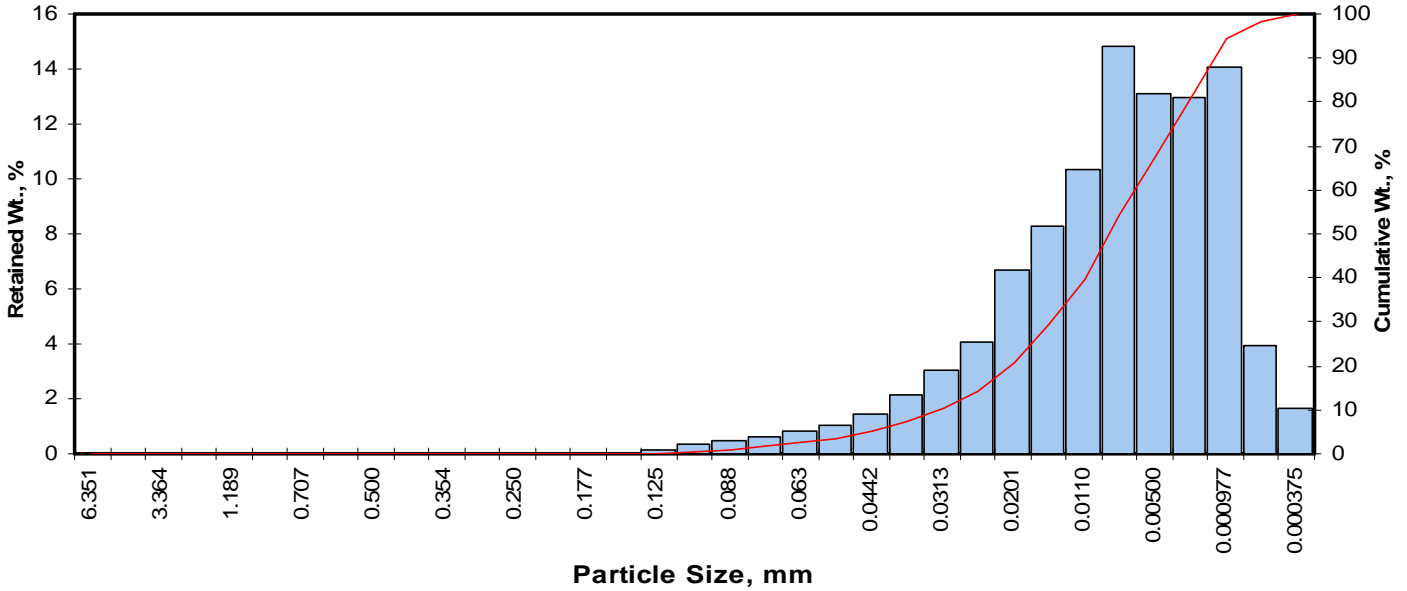
Grain Size Description	Silt	
(ASTM-USCS Scale)	(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.03
Fine Sand	200	32.73
Silt	>0.005 mm	53.95
Clay	<0.005 mm	10.29
Total		100

Client: Ranboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PT-RI28-99.5-100.0
 Depth, ft: 99.5-100.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.03	0.03	0.03
0.0049	0.125	3.00	120	0.15	0.15	0.18
0.0041	0.105	3.25	140	0.33	0.33	0.51
0.0035	0.088	3.50	170	0.49	0.49	1.00
0.0029	0.074	3.75	200	0.64	0.64	1.65
0.0025	0.063	4.00	230	0.81	0.81	2.46
0.0021	0.053	4.25	270	1.06	1.06	3.52
0.00174	0.0442	4.50	325	1.46	1.46	4.99
0.00146	0.0372	4.75	400	2.13	2.14	7.12
0.00123	0.0313	5.00	450	3.02	3.03	10.15
0.000986	0.0250	5.32	500	4.05	4.06	14.21
0.000790	0.0201	5.64	635	6.65	6.67	20.88
0.000615	0.0156	6.00		8.26	8.28	29.16
0.000435	0.0110	6.50		10.30	10.33	39.49
0.000308	0.00781	7.00		14.80	14.84	54.33
0.000197	0.00500	7.65		13.10	13.14	67.47
0.000077	0.00195	9.00		12.90	12.94	80.41
0.000038	0.000977	10.00		14.00	14.04	94.44
0.000019	0.000488	11.00		3.89	3.90	98.35
0.000015	0.000375	11.38		1.65	1.65	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.50	0.0017	0.044
10	4.99	0.0012	0.032
16	5.41	0.0009	0.024
25	5.82	0.0007	0.018
40	6.52	0.0004	0.011
50	6.85	0.0003	0.009
60	7.28	0.0003	0.006
75	8.43	0.0001	0.003
84	9.26	0.0001	0.002
90	9.68	0.0000	0.001
95	10.14	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.85	6.85	6.85
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.009	0.009	0.009
Mean, phi	6.60	7.33	7.17
Mean, in.	0.0004	0.0002	0.0003
Mean, mm	0.010	0.006	0.007
Sorting	2.475	1.925	1.817
Skewness	0.828	0.248	0.207
Kurtosis	0.245	0.465	0.884

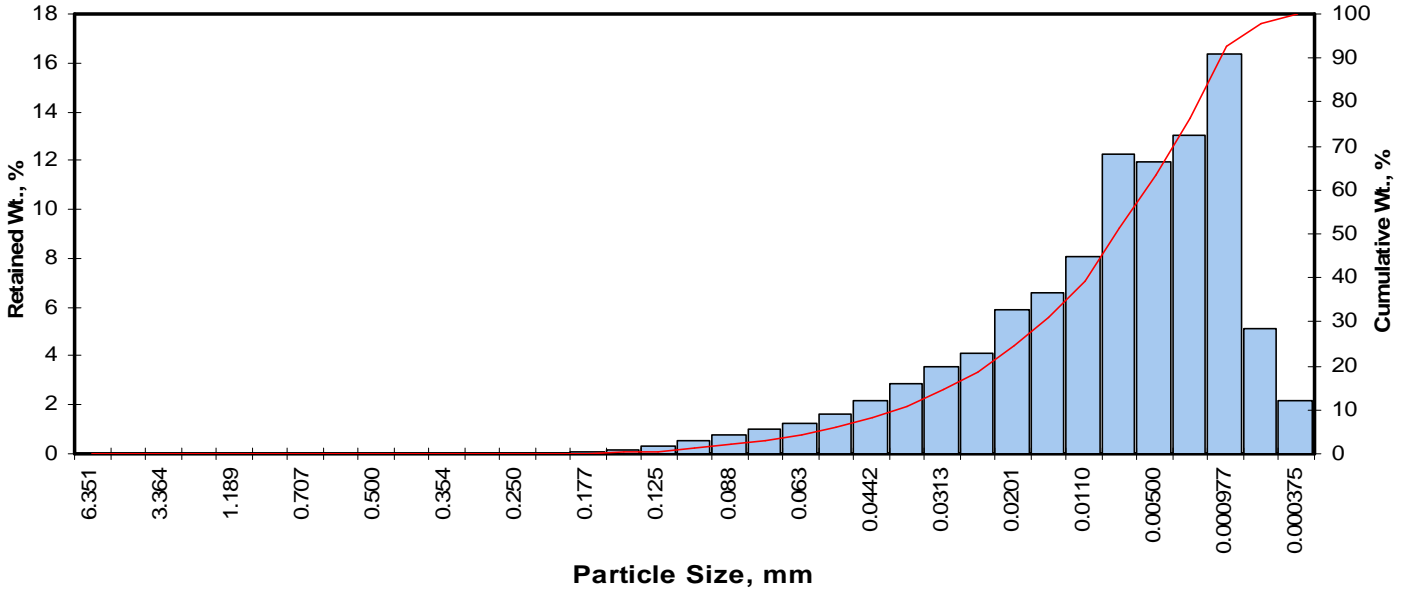
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	1.65
Silt	>0.005 mm	65.82
Clay	<0.005 mm	32.53
Total		100

Client: Ranboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PT-RI26-62.0-62.5
 Depth, ft: 62.0-62.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.01	0.01	0.01
0.0070	0.177	2.50	80	0.07	0.07	0.08
0.0059	0.149	2.75	100	0.18	0.18	0.27
0.0049	0.125	3.00	120	0.33	0.33	0.60
0.0041	0.105	3.25	140	0.55	0.55	1.15
0.0035	0.088	3.50	170	0.80	0.80	1.95
0.0029	0.074	3.75	200	1.02	1.02	2.97
0.0025	0.063	4.00	230	1.25	1.25	4.23
0.0021	0.053	4.25	270	1.61	1.61	5.84
0.00174	0.0442	4.50	325	2.15	2.16	8.00
0.00146	0.0372	4.75	400	2.88	2.89	10.89
0.00123	0.0313	5.00	450	3.57	3.58	14.47
0.000986	0.0250	5.32	500	4.13	4.14	18.61
0.000790	0.0201	5.64	635	5.88	5.90	24.51
0.000615	0.0156	6.00		6.57	6.59	31.10
0.000435	0.0110	6.50		8.06	8.08	39.18
0.000308	0.00781	7.00		12.20	12.24	51.42
0.000197	0.00500	7.65		11.90	11.94	63.35
0.000077	0.00195	9.00		13.00	13.04	76.39
0.000038	0.000977	10.00		16.30	16.35	92.74
0.000019	0.000488	11.00		5.07	5.09	97.82
0.000015	0.000375	11.38		2.17	2.18	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.12	0.0023	0.058
10	4.67	0.0015	0.039
16	5.12	0.0011	0.029
25	5.67	0.0008	0.020
40	6.53	0.0004	0.011
50	6.94	0.0003	0.008
60	7.46	0.0002	0.006
75	8.86	0.0001	0.002
84	9.47	0.0001	0.001
90	9.83	0.0000	0.001
95	10.44	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.94	6.94	6.94
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.008	0.008	0.008
Mean, phi	6.52	7.29	7.18
Mean, in.	0.0004	0.0003	0.0003
Mean, mm	0.011	0.006	0.007
Sorting	3.019	2.174	2.045
Skewness	0.802	0.161	0.134
Kurtosis	0.230	0.455	0.813

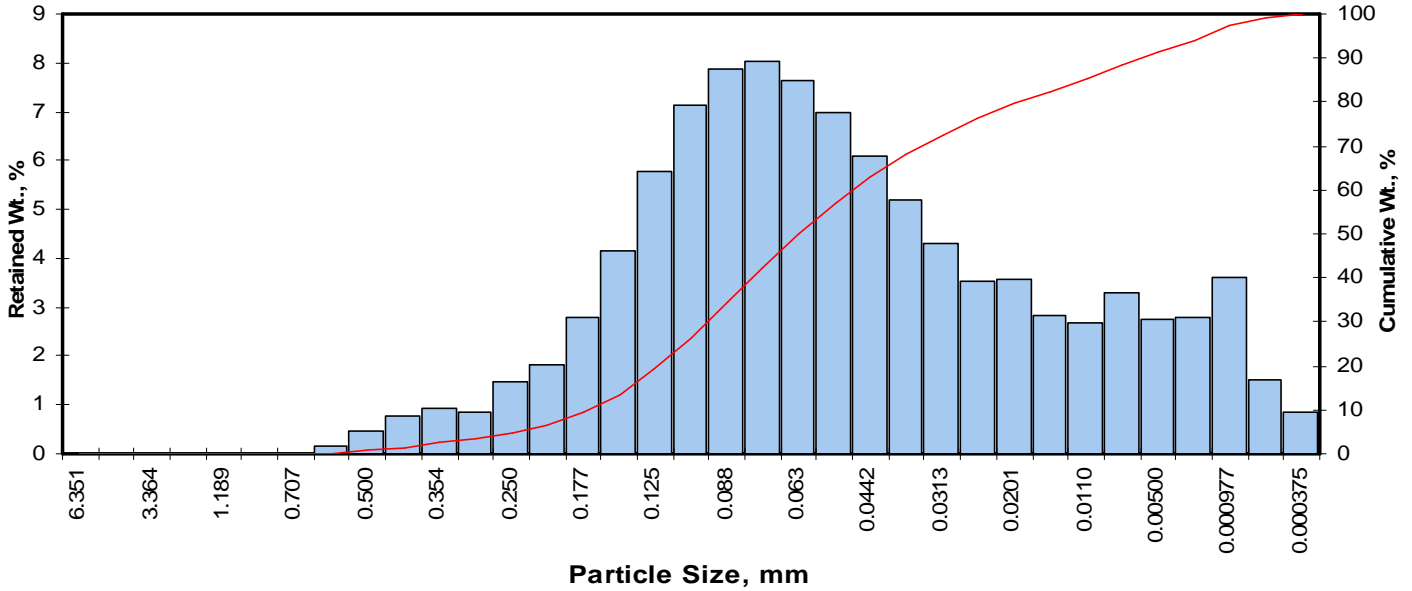
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	2.97
Silt	>0.005 mm	60.38
Clay	<0.005 mm	36.65
Total		100

Client: Ranboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-RI26-73.0-73.3
Depth, ft: 73.0-73.3

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.02	0.02	0.02
0.0234	0.595	0.75	30	0.16	0.16	0.18
0.0197	0.500	1.00	35	0.48	0.48	0.66
0.0166	0.420	1.25	40	0.79	0.79	1.45
0.0139	0.354	1.50	45	0.94	0.94	2.39
0.0117	0.297	1.75	50	0.87	0.87	3.26
0.0098	0.250	2.00	60	1.47	1.47	4.73
0.0083	0.210	2.25	70	1.83	1.83	6.56
0.0070	0.177	2.50	80	2.80	2.80	9.37
0.0059	0.149	2.75	100	4.16	4.16	13.53
0.0049	0.125	3.00	120	5.78	5.79	19.32
0.0041	0.105	3.25	140	7.12	7.13	26.44
0.0035	0.088	3.50	170	7.88	7.89	34.33
0.0029	0.074	3.75	200	8.02	8.03	42.36
0.0025	0.063	4.00	230	7.65	7.66	50.01
0.0021	0.053	4.25	270	6.96	6.97	56.98
0.00174	0.0442	4.50	325	6.10	6.11	63.09
0.00146	0.0372	4.75	400	5.20	5.20	68.29
0.00123	0.0313	5.00	450	4.31	4.31	72.60
0.000986	0.0250	5.32	500	3.51	3.51	76.12
0.000790	0.0201	5.64	635	3.55	3.55	79.67
0.000615	0.0156	6.00		2.82	2.82	82.49
0.000435	0.0110	6.50		2.69	2.69	85.19
0.000308	0.00781	7.00		3.28	3.28	88.47
0.000197	0.00500	7.65		2.77	2.77	91.24
0.000077	0.00195	9.00		2.78	2.78	94.02
0.000038	0.000977	10.00		3.59	3.59	97.62
0.000019	0.000488	11.00		1.53	1.53	99.15
0.000015	0.000375	11.38		0.85	0.85	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.04	0.0096	0.244
10	2.54	0.0068	0.172
16	2.86	0.0054	0.138
25	3.20	0.0043	0.109
40	3.68	0.0031	0.078
50	4.00	0.0025	0.063
60	4.37	0.0019	0.048
75	5.22	0.0011	0.027
84	6.28	0.0005	0.013
90	7.36	0.0002	0.006
95	9.27	0.0001	0.002

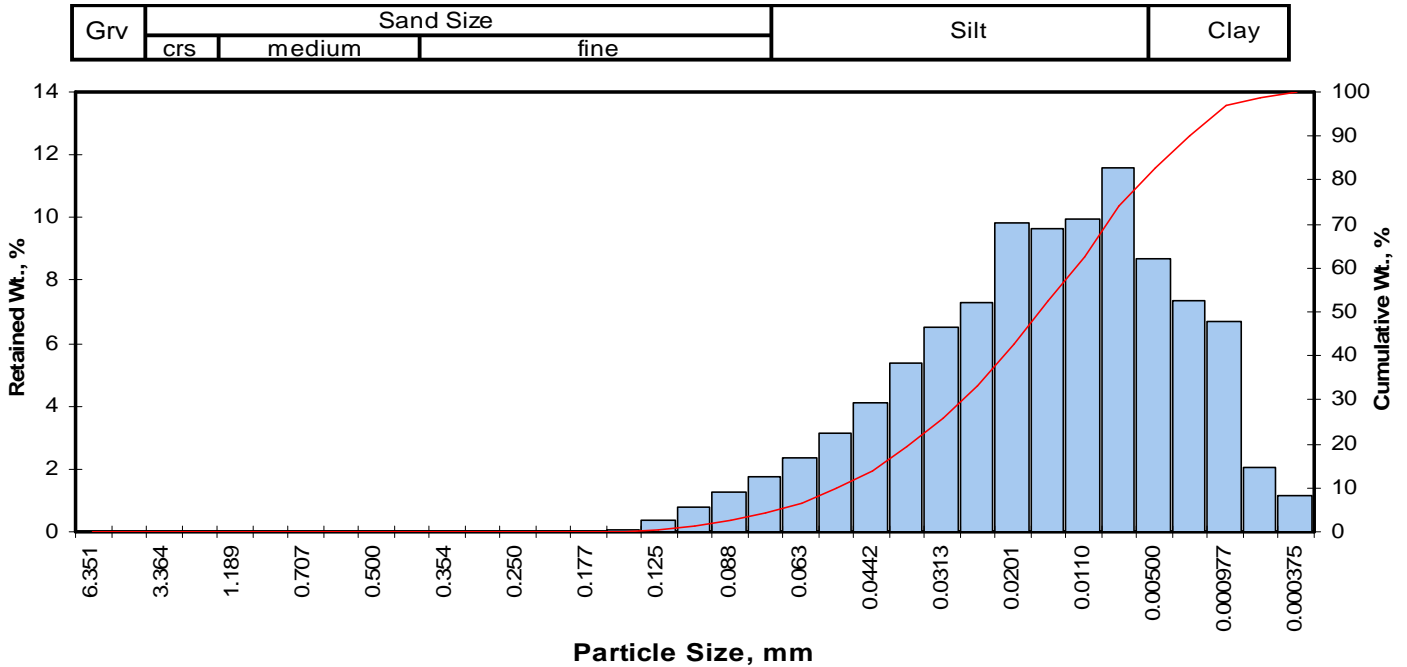
Measure	Trask	Inman	Folk-Ward
Median, phi	4.00	4.00	4.00
Median, in.	0.0025	0.0025	0.0025
Median, mm	0.063	0.063	0.063
Mean, phi	3.88	4.57	4.38
Mean, in.	0.0027	0.0017	0.0019
Mean, mm	0.068	0.042	0.048
Sorting	2.013	1.711	1.952
Skewness	0.865	0.332	0.395
Kurtosis	0.247	1.114	1.469

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.45
Fine Sand	200	40.91
Silt	>0.005 mm	48.88
Clay	<0.005 mm	8.76
Total		100

Client: Ranboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47320
Sample ID: PT-RI26-108.5-109.0
Depth, ft: 108.5-108.7



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.01	0.01	0.01
0.0059	0.149	2.75	100	0.09	0.09	0.10
0.0049	0.125	3.00	120	0.37	0.37	0.47
0.0041	0.105	3.25	140	0.78	0.78	1.25
0.0035	0.088	3.50	170	1.25	1.25	2.50
0.0029	0.074	3.75	200	1.76	1.76	4.26
0.0025	0.063	4.00	230	2.36	2.36	6.62
0.0021	0.053	4.25	270	3.13	3.13	9.76
0.00174	0.0442	4.50	325	4.10	4.11	13.86
0.00146	0.0372	4.75	400	5.35	5.36	19.22
0.00123	0.0313	5.00	450	6.49	6.50	25.72
0.000986	0.0250	5.32	500	7.32	7.33	33.05
0.000790	0.0201	5.64	635	9.82	9.83	42.88
0.000615	0.0156	6.00		9.67	9.68	52.56
0.000435	0.0110	6.50		9.93	9.94	62.50
0.000308	0.00781	7.00		11.60	11.61	74.12
0.000197	0.00500	7.65		8.65	8.66	82.78
0.000077	0.00195	9.00		7.33	7.34	90.12
0.000038	0.000977	10.00		6.67	6.68	96.80
0.000019	0.000488	11.00		2.07	2.07	98.87
0.000015	0.000375	11.38		1.13	1.13	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.83	0.0028	0.070
10	4.26	0.0020	0.052
16	4.60	0.0016	0.041
25	4.97	0.0013	0.032
40	5.55	0.0008	0.021
50	5.90	0.0007	0.017
60	6.37	0.0005	0.012
75	7.07	0.0003	0.007
84	7.87	0.0002	0.004
90	8.98	0.0001	0.002
95	9.73	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.90	5.90	5.90
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	5.67	6.24	6.12
Mean, in.	0.0008	0.0005	0.0006
Mean, mm	0.020	0.013	0.014
Sorting	2.066	1.635	1.712
Skewness	0.924	0.202	0.249
Kurtosis	0.244	0.805	1.156

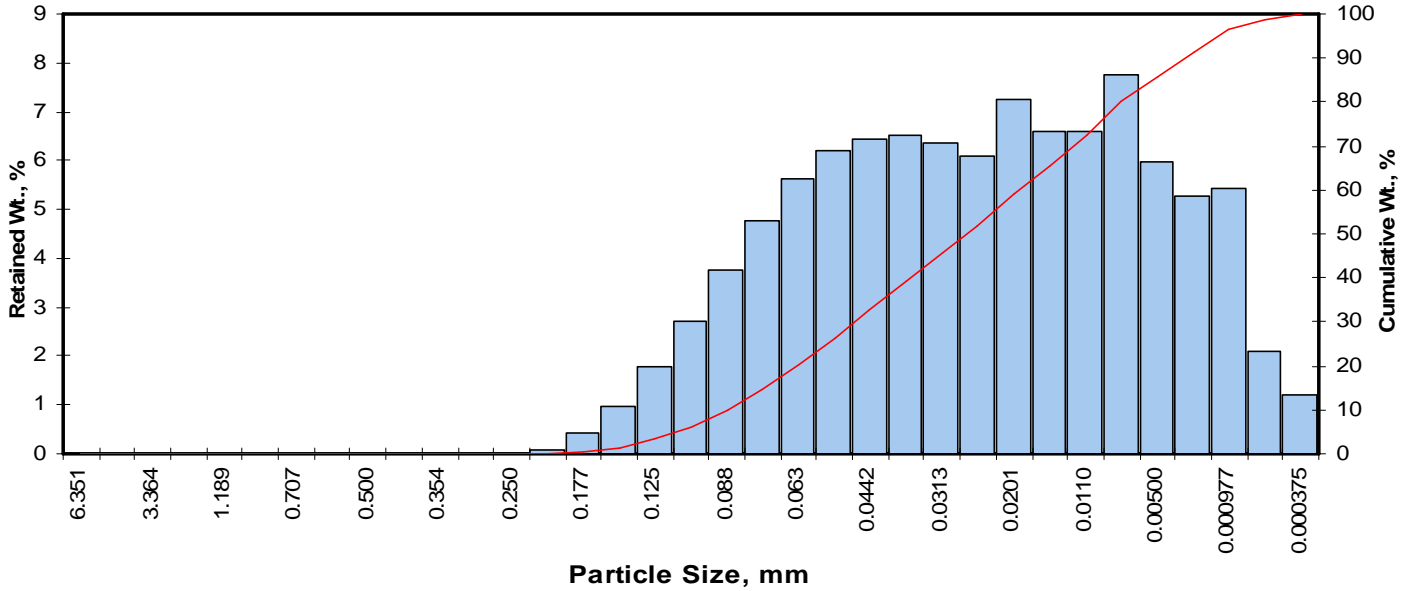
Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	4.26
Silt	>0.005 mm	78.52
Clay	<0.005 mm	17.22
Total		100

Client: Ranboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47320
 Sample ID: PT-RI26-114.0-114.5
 Depth, ft: 114.0-114.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Particle Size, mm

Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.08	0.08	0.09
0.0070	0.177	2.50	80	0.41	0.41	0.50
0.0059	0.149	2.75	100	0.98	0.98	1.48
0.0049	0.125	3.00	120	1.78	1.78	3.26
0.0041	0.105	3.25	140	2.72	2.72	5.98
0.0035	0.088	3.50	170	3.76	3.77	9.75
0.0029	0.074	3.75	200	4.76	4.77	14.51
0.0025	0.063	4.00	230	5.61	5.62	20.13
0.0021	0.053	4.25	270	6.19	6.20	26.33
0.00174	0.0442	4.50	325	6.45	6.46	32.79
0.00146	0.0372	4.75	400	6.52	6.53	39.32
0.00123	0.0313	5.00	450	6.36	6.37	45.69
0.000986	0.0250	5.32	500	6.09	6.10	51.79
0.000790	0.0201	5.64	635	7.25	7.26	59.04
0.000615	0.0156	6.00		6.60	6.61	65.65
0.000435	0.0110	6.50		6.60	6.61	72.26
0.000308	0.00781	7.00		7.76	7.77	80.03
0.000197	0.00500	7.65		5.95	5.96	85.99
0.000077	0.00195	9.00		5.27	5.28	91.27
0.000038	0.000977	10.00		5.44	5.45	96.72
0.000019	0.000488	11.00		2.08	2.08	98.80
0.000015	0.000375	11.38		1.20	1.20	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.16	0.0044	0.112
10	3.51	0.0034	0.088
16	3.82	0.0028	0.071
25	4.20	0.0021	0.055
40	4.78	0.0014	0.036
50	5.23	0.0011	0.027
60	5.69	0.0008	0.019
75	6.68	0.0004	0.010
84	7.43	0.0002	0.006
90	8.67	0.0001	0.002
95	9.69	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.23	5.23	5.23
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.027	0.027	0.027
Mean, phi	4.96	5.62	5.49
Mean, in.	0.0013	0.0008	0.0009
Mean, mm	0.032	0.020	0.022
Sorting	2.362	1.807	1.892
Skewness	0.865	0.219	0.293
Kurtosis	0.263	0.806	1.078

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	14.51
Silt	>0.005 mm	71.48
Clay	<0.005 mm	14.01
Total		100

PTS File No: 47320
 Client: Ramboll Environ
 Report Date: 02/26/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-M200-107.5-108.0	107.5-108.0	20180216	22.00	NON-PLASTIC		ML	ML-Sandy Silt	----
PT-M200-112.5-113.0	112.5-113.0	20180216	98.9	20.7	78.2	CH	CH-sandy fat clay	----
PT-PCDB2-65.0-65.5	65.0-65.5	20180216	91.4	17.8	73.6	CH	CH-fat clay	----
PT-PCDB3-26.5-26.8	26.5-26.8	20180216	17.0	NON-PLASTIC		ML	ML-silt with gravel	----
PT-PCDB3-44.0-44.5	44.0-44.5	20180216	71.2	19.5	51.7	CH	CH-fat clay	----
PT-PCDB3-67.0-67.5	67.0-67.5	20180216	153.3	32.6	120.7	CH	CH-fat clay	----
PT-PCDB3-103.5-104.0	103.5-104.0	20180220	96.0	25.0	71.0	CH	CH-fat clay with sand	----
PT-PCDB3-136.0-136.3	136.0-136.3	20180220	112.4	29.9	82.5	CH	CH-fat clay	----
PT-PCDB3-142.5-142.8	142.5-142.8	20180220	50.0	NON-PLASTIC		MH	MH-sandy elastic silt	----
PT-PCDB3-148.3-148.8	148.3-148.8	20180220	89.8	28.1	61.7	CH	CH-fat clay with sand	----
PT-RI17-93.0-93.5	93.0-93.5	20180220	54.2	21.0	33.2	CH	CH-fat clay with sand	----
PT-RI17-108.4-108.9	108.4-108.9	20180220	132.8	35.4	97.4	CH	CH-fat clay	----
PT-RI28-69.5-69.8	69.5-69.8	20180220	39.7	20.2	19.5	CL	CL-lean clay with gravel	----
PT-RI28-71.3-71.8	71.3-71.8	20180220	61.6	20.1	41.5	CH	CH-sady fat clay	----
PT-RI28-77.0-77.3	77.0-77.3	20180220	31.1	20.8	10.3	CL	CL-lean clay	----
PT-RI28-78.0-78.2	78.0-78.2	20180221	25.0	NON-PLASTIC		ML	ML-sandy silt	----
PT-RI28-99.5-100.0	99.5-100.0	20180221	164.6	32.1	132.5	CH	CH-fat clay	----
PT-RI26-33.0-33.3	33.0-33.3	20180221	23.0	NON-PLASTIC		ML	ML-silt with sand	----
PT-RI26-57.8-58.3	57.8-58.3	20180221	35.9	25.6	10.3	CL	CL-sandy lean clay	----
PT-RI26-62.0-62.5	62.0-62.5	20180221	69.8	23.1	46.7	CH	CH-fat clay	----
PT-RI26-73.0-73.3	73.0-73.3	20180221	24.9	NON-PLASTIC		ML	ML-sandy silt	----
PT-RI26-75.0-75.3	75.0-75.3	20180221	24.0	NON-PLASTIC		ML	ML-sandy silt	----
PT-RI26-103.7-104.0	103.7-104.0	20180221	92.7	40.7	52.0	CH	CH-sandy fat clay	----
PT-RI26-108.5-109.0	108.5-109.0	20180221	178.8	28.1	150.7	CH	CH-fat clay	----
PT-RI26-114.0-114.5	114.0-114.5	20180221	98.8	18.3	80.5	CH	CH-fat clay	----

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.
 (2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.
 USCS: Unified Soil Classification System
 USDA: US Department of Agriculture
 SCS: Soil Conservation Service

PTS File No: 47320
 Client: Ramboll Environ
 Report Date: 02/23/18

WATER (MOISTURE) CONTENT OF SOIL OR ROCK BY MASS

(Methodology: ASTM D 2216)

Project Name: NERT
 Project No: 21-41400C, PHASE M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	MATRIX	Tare WEIGHT, grams	WET SAMPLE and TARE grams	DRY SAMPLE and TARE grams	MOISTURE CONTENT, % dry weight
PT-M200-107.5-108.0	107.5-108.0	20180208	1200	Soil	15.63	54.92	53.15	4.7
PT-M200-112.5-113.0	112.5-113.0	20180208	1200	Soil	15.45	47.18	40.32	27.6
PT-PCDB2-65.0-65.5	65.0-65.5	20180220	1145	Soil	15.49	43.29	41.61	6.4
PT-PCDB3-44.0-44.5	44.0-44.5	20180220	1145	Soil	15.46	51.53	45.57	19.8
PT-PCDB3-67.0-67.5	67.0-67.5	20180220	1145	Soil	15.35	49.28	40.90	32.8
PT-PCDB3-103.5-104.0	103.5-104.0	20180220	1145	Soil	15.42	51.39	45.38	20.1
PT-PCDB3-148.3-148.8	148.3-148.8	20180208	1200	Soil	15.61	49.19	42.96	22.8
PT-RI17-93.0-93.5	93.0-93.5	20180220	1145	Soil	15.48	52.63	47.21	17.1
PT-RI17-108.4-108.9	108.4-108.9	20180208	1200	Soil	15.61	49.19	42.96	22.8
PT-RI28-71.3-71.8	71.3-71.8	20180220	1145	Soil	15.36	50.56	45.32	17.5
PT-RI28-99.5-100.0	99.5-100.0	20180208	1200	Soil	15.49	46.30	37.52	39.9
PT-RI26-57.8-58.3	57.8-58.3	20180220	1145	Soil	15.47	62.41	58.21	9.8
PT-RI26-103.7-104.0	103.7-104.0	20180220	1145	Soil	15.42	43.70	35.20	43.0
PT-RI26-108.5-109.0	108.5-109.0	20180220	1145	Soil	15.39	48.28	40.63	30.3
PT-RI26-114.0-114.5	114.0-114.5	20180208	1200	Soil	15.46	50.29	45.27	16.8

PTS File No: 47320
 Client: Ramboll Environ
 Report Date: 02/23/18

DRY BULK DENSITY OF IN-PLACE SOIL
 (Methodology: ASTM D2937)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	TOTAL SAMPLE VOLUME, cc	MOISTURE CONTENT, % wt	VOLUMETRIC MOISTURE CONTENT, fraction Vb	DRY BULK DENSITY, g/cc
PT-M200-107.5-108.0	107.5-108.0	20180209	188.09	4.3	0.071	1.64
PT-M200-112.5-113.0	112.5-113.0	20180209	188.09	30.1	0.359	1.19
PT-PCDB2-65.0-65.5	65.0-65.5	20180220	189.47	6.9	0.080	1.16
PT-PCDB3-44.0-44.5	44.0-44.5	20180220	189.47	26.1	0.287	1.10
PT-PCDB3-67.0-67.5	67.0-67.5	20180220	189.47	27.6	0.293	1.06
PT-PCDB3-103.5-104.0	103.5-104.0	20180220	189.47	21.1	0.249	1.18
PT-PCDB3-148.3-148.8	148.3-148.8	20180209	188.09	22.2	0.273	1.23
PT-RI17-93.0-93.5	93.0-93.5	20180220	189.47	17.5	0.205	1.17
PT-RI17-108.4-108.9	108.4-108.9	20180209	188.09	16.6	0.201	1.21
PT-RI28-71.3-71.8	71.3-71.8	20180220	189.47	17.2	0.199	1.16
PT-RI28-99.5-100.0	99.5-100.0	20180209	188.09	39.9	0.450	1.13
PT-RI26-57.8-58.3	57.8-58.3	20180220	189.47	8.9	0.128	1.43
PT-RI26-103.7-104.0	103.7-104.0	20180220	44.89	44.5	0.370	0.83
PT-RI26-108.5-109.0	108.5-109.0	20180220	189.47	33.0	0.325	0.98
PT-RI26-114.0-114.5	114.0-114.5	20180209	188.09	21.6	0.301	1.39

Vb = Bulk Volume

PTS File No: 47320
 Client: Ramboll Environ
 Report Date: 02/27/18

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS: ANALYSIS DATE	API RP 40 /	Mod. ASTM D425
				TOTAL POROSITY (2), %Vb	EFFECTIVE POROSITY, %Vb
PT-M200-107.5-108.0	107.5-108.0	R	20180220	42.0	30.1
PT-M200-112.5-113.0	112.5-113.0	R	20180220	59.2	7.0
PT-PCDB2-65.0-65.5	65.0-65.5	R	20180220	59.9	12.4
PT-PCDB3-44.0-44.5	44.0-44.5	R	20180220	60.8	15.9
PT-PCDB3-67.0-67.5	67.0-67.5	R	20180220	67.1	13.1
PT-PCDB3-103.5-104.0	103.5-104.0	R	20180220	62.4	22.0
PT-PCDB3-148.3-148.8	148.3-148.8	R	20180220	61.0	8.8
PT-RI17-93.0-93.5	93.0-93.5	R	20180220	57.6	25.4
PT-RI17-108.4-108.9	108.4-108.9	R	20180220	55.1	14.5
PT-RI28-71.3-71.8	71.3-71.8	R	20180220	64.3	30.0
PT-RI28-99.5-100.0	99.5-100.0	R	20180220	65.9	7.5
PT-RI26-57.8-58.3	57.8-58.3	R	20180220	47.8	24.7
PT-RI26-103.7-104.0	103.7-104.0	R	20180220	70.0	29.2
PT-RI26-108.5-109.0	108.5-109.0	R	20180220	70.9	25.2
PT-RI26-114.0-114.5	114.0-114.5	R	20180220	52.2	8.9

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Total Porosity = all interconnected + Non-connected pore channels.
 Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 47320
 Client: Ramboll Environ
 Report Date: 02/27/18

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY

(Methodology: API RP 40; EPA 9100)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	25 PSI CONFINING STRESS		
				EFFECTIVE PERMEABILITY TO WATER (2,3), millidarcy	HYDRAULIC CONDUCTIVITY (3), cm/s	INTRINSIC PERMEABILITY TO WATER (3), cm ²
PT-M200-107.5-108.0	107.5-108.0	R	20180220	381	3.64E-04	3.77E-09
PT-M200-112.5-113.0	112.5-113.0	R	20180220	0.345	3.32E-07	3.40E-12
PT-PCDB2-65.0-65.5	65.0-65.5	R	20180220	0.310	2.99E-07	3.06E-12
PT-PCDB3-44.0-44.5	44.0-44.5	R	20180220	0.828	8.14E-07	8.17E-12
PT-PCDB3-67.0-67.5	67.0-67.5	R	20180220	0.661	6.53E-07	6.53E-12
PT-PCDB3-148.3-148.8	148.3-148.8	R	20180220	0.233	2.30E-07	2.30E-12
PT-RI26-114.0-114.5	114.0-114.5	R	20180220	0.289	2.85E-07	2.85E-12

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Effective (Native) = With as-received pore fluids in place.
 (3) Permeability to water and hydraulic conductivity measured at saturated conditions.
 Water = filtered Laboratory Fresh (tap) or Site water.

PTS File No: 47320
 Client: Ramboll Environ
 Report Date: 02/23/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-M200-107.5-108.0	107.5-108.0	20180215	1000	SOIL	495	4.95E-04
PT-M200-112.5-113.0	112.5-113.0	20180215	1000	SOIL	493	4.93E-04
PT-PCDB2-65.0-65.5	65.0-65.5	20180215	1000	SOIL	595	5.95E-04
PT-PCDB3-26.5-26.8	26.5-26.8	20180215	1000	SOIL	402	4.02E-04
PT-PCDB3-44.0-44.5	44.0-44.5	20180215	1000	SOIL	988	9.88E-04
PT-PCDB3-67.0-67.5	67.0-67.5	20180215	1000	SOIL	694	6.94E-04
PT-PCDB3-103.5-104.0	103.5-104.0	20180215	1000	SOIL	791	7.91E-04
PT-PCDB3-136.0-136.3	136-136.3	20180215	1000	SOIL	1169	1.17E-03
PT-PCDB3-142.5-142.8	142.5-142.8	20180215	1000	SOIL	493	4.93E-04
PT-PCDB3-148.3-148.8	148.3-148.8	20180215	1000	SOIL	493	4.93E-04
PT-RI17-93.0-93.5	93.0-93.5	20180215	1000	SOIL	401	4.01E-04
PT-RI17-108.4-108.9	108.4-108.9	20180215	1000	SOIL	397	3.97E-04
PT-RI28-69.5-69.8	69.5-69.8	20180215	1000	SOIL	202	2.02E-04
PT-RI28-71.3-71.8	71.3-71.8	20180215	1000	SOIL	302	3.02E-04
PT-RI28-77.0-77.3	77.0-77.3	20180215	1000	SOIL	204	2.04E-04
PT-RI28-78.0-78.2	78.0-78.2	20180215	1000	SOIL	205	2.05E-04
PT-RI28-99.5-100.0	99.5-100.0	20180216	0930	SOIL	497	4.97E-04
PT-RI26-33.0-33.3	33.0-33.3	20180216	0930	SOIL	600	6.00E-04
PT-RI26-57.8-58.3	57.8-58.3	20180216	0930	SOIL	300	3.00E-04
PT-RI26-62.0-62.5	62.0-62.5	20180216	0930	SOIL	296	2.96E-04
Blank	N/A	20180215	1000	BLANK	ND	ND
SRM D096-542	N/A	20180215	1000	SRM	4278	4.28E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D096-542	106	75-125	3890	2918	4863

ND = Not Detected

PTS File No: 47320
 Client: Ramboll Environ
 Report Date: 02/23/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RI26-73.0-73.3	73.0-73.3	20180216	0930	SOIL	204	2.04E-04
PT-RI26-75.0-75.3	75.0-75.3	20180216	0930	SOIL	106	1.06E-04
PT-RI26-103.7-104.0	103.7-104.0	20180216	0930	SOIL	206	2.06E-04
PT-RI26-108.5-109.0	108.5-109.0	20180216	0930	SOIL	108	1.08E-04
PT-RI26-114.0-114.5	114.0-114.5	20180216	0930	SOIL	205	2.05E-04

Blank	N/A	20180216	0930	BLANK	ND	ND
SRM D096-542	N/A	20180216	0930	SRM	4023	4.02E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D096-542	106	75-125	3890	2918	4863

ND = Not Detected

To: Michael Mark Brady, PTS Laboratories, Inc.
 5730 Centralcrest Street, Houston, TX 77092

Project:

Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 5 (sent 6/21/17)

Date: August 21, 2017

Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RI-17	93.0 - 93.5	PT-RI17-93.0-93.5	wrapped core	X	X	X	X	X				X
RI-17	108.4 - 108.9	PT-RI17-108.4-108.9	wrapped core	X	X	X	X	X				X
RI-26	33.0 - 33.3	PT-RI26-33.0-33.3	Glass jar	X	X (1)							X
RI-26	57.8 - 58.3	PT-RI26-57.8-58.3	wrapped core	X	X	X	X	X				X
RI-26	62.0 - 62.5	PT-RI26-62.0-62.5	Glass jar	X	X (1)							X
RI-26	73.0 - 73.3	PT-RI26-73.0-73.3	Glass jar	X	X (1)							X
RI-26	75.0 - 75.3	PT-RI26-75.0-75.3	Glass jar	X	X (1)							X
RI-26	103.7 - 104.0	PT-RI26-103.7-104.0	wrapped core	X	X	X	X	X				X
RI-26	108.5 - 109.0	PT-RI26-108.5-109.0	wrapped core	X	X	X	X	X				X
RI-26	114.0 - 114.5	PT-RI26-114.0-114.5	wrapped core	X	X	X	X	X	V	44 ft	70 ft	X
RI-28	69.5 - 69.8	PT-RI28-69.5-69.8	Glass jar	X	X (1)							X
RI-28	71.3 - 71.8	PT-RI28-71.3-71.8	wrapped core	X	X	X	X	X				X
RI-28	77.0 - 77.3	PT-RI28-77.0-77.3	Glass jar	X	X (1)							X
RI-28	78.0 - 78.2	PT-RI28-78.0-78.2	Glass jar	X	X (1)							X
RI-28	99.5 - 100.0	PT-RI28-99.5-100.0	wrapped core	X	X	X	X	X				X
M-200	107.5 - 108.0	PT-M200-107.5-108.0	wrapped core	X	X	X	X	X	V	35.6 ft	71.9	X
M-200	112.5 - 113.0	PT-M200-112.5-113.0	wrapped core	X	X	X	X	X	V	35.6 ft	76.9	X
PCDB-2	65.0 - 65.5	PT-PCDB2-65.0-65.5	wrapped core	X	X	X	X	X	V	17.4 ft	47.6 ft	X

To: Michael Mark Brady, PTS Laboratories, Inc.
 5730 Centralcrest Street, Houston, TX 77092

Project:

Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Environ Project No.: 21-41400C, Phase M03D

**PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 5** (sent 6/21/17)

Date: August 21, 2017

Submitted by: Ramboll Environ, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Environ Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
PCDB-3	26.5 - 26.8	PT-PCDB3-26.5-26.8	Glass jar	X	X (1)							X
PCDB-3	44.0 - 44.5	PT-PCDB3-44.0-44.5	wrapped core	X	X	X	X	X	V	20 ft	24 ft	X
PCDB-3	67.0 - 67.5	PT-PCDB3-67.0-67.5	wrapped core	X	X	X	X	X	V	20 ft	47 ft	X
PCDB-3	103.5 - 104.0	PT-PCDB3-103.5-104.0	wrapped core	X	X	X	X	X				X
PCDB-3	136.0 - 136.3	PT-PCDB3-136.0-136.3	Glass jar	X (2)	X (1,2)							X
PCDB-3	142.5 - 142.8	PT-PCDB3-142.5-142.8	Glass jar	X	X (1)							X
PCDB-3	148.3 - 148.8	PT-PCDB3-148.3-148.8	wrapped core	X	X	X	X	X	V	20 ft	128.3 ft	X
			TOTALS:	25	25	15	15	15	7			25

Notes:

- (1) If necessary for classification of fines.
- (2) Sample contains abundant gypsum crystals.
- (3) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).

CHAIN-OF-CUSTODY FORM

47320 No 12911

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Maxwell
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400C, M03B LABORATORY PTS
 SAMPLER Amy Maxwell SIGNATURE [Signature] DATE 6/21/17 YEAR 2017

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-M200-107.5-108.0	6/7/2017	1510	107.5-108.0	/	S	1	U	NO		
PT-M200-112.5-113.0	6/7/2017	1520	112.5-113.0	/	S	1	U	NO		
PT-PCDB2-65.0-65.5	6/16/2017	1130	65.0-65.5	/	S	1	U	NO	HOLD*	
PT-PCDB3-26.5-26.8		1139	26.5-26.8	/	S	1	U	NO	X	* Hold samples pending further instruction from J. Donovan/Ramboll Environ
PT-PCDB3-44.0-44.5		1149	44.0-44.5	/	S	1	U	NO	X	
PT-PCDB3-67.0-67.5		1258	67.0-67.5	/	S	1	U	NO	X	
PT-PCDB3-165.5-164.0		1310	165.5-164.0	/	S	1	U	NO	X	
PT-PCDB3-136.0-136.3		1317	136.0-136.3	/	S	1	U	NO	X	
PT-PCDB3-142.5-142.8		1325	142.5-142.8	/	S	1	U	NO	X	
PT-PCDB3-148.3-148.8		1334	148.3-148.8	/	S	1	U	NO	X	
PT-RI17-93.0-93.5	6/17/2017	1222	93.0-93.5	/	S	1	U	NO	X	
PT-RI17-108.4-108.9	6/17/2017	1230	108.4-108.9	/	S	1	U	NO	X	
TOTAL										

RELINQUISHED BY [Signature] TIME/DATE 1400 / 6/21/17 RECEIVED BY COMPANY PTS Labs. Inc.
 RELINQUISHED BY [Signature] TIME/DATE 1400 / 6/21/17 RECEIVED BY COMPANY PTS Labs. Inc.
 RELINQUISHED BY [Signature] TIME/DATE 1400 / 6/21/17 RECEIVED BY COMPANY PTS Labs. Inc.

SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS **NORMAL**

SAMPLE INTEGRITY
 INTACT N TEMP 78.7°F

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

47320

No 13137

WORK ORDER #

MSA #

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID#

PROJECT NAME/FACILITY ID: NERT FIELD PERSON# Amy Manson

PROJECT LOCATION: Henderson, NV PROJECT MANAGER: Ross Russell

PROJECT NUMBER: 2141400C, MO3B LABORATORY: PTS

SAMPLER: Amy Manson SIGNATURE: [Signature]

DATE: 6/21/17 YEAR: 2017

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
✓ PT-RI28-69.5-69.8	6/10/2017	1245	69.5-69.8	✓	S	1	U	ND	X	
✓ PT-RI28-71.3-71.8		1253	71.3-71.8	✓		1			X	* Hold samples pending further instruction from J. Donovan/Ramboll Environ
✓ PT-RI28-77.0-77.3		1300	77.0-77.3	✓		1			X	
✓ PT-RI28-78.0-78.2		1306	78.0-78.2	✓		1			X	
✓ PT-RI28-99.5-100.0		1313	99.5-100.0	✓		1			X	
✓ PT-RI26-33.0-33.3	6/20/2017	1035	33.0-33.3	✓		1			X	
✓ PT-RI26-57.8-58.3		1116	57.8-58.3	✓		1			X	
✓ PT-RI26-62.0-62.5		1125	62.0-62.5	✓		1			X	
✓ PT-RI26-73.0-73.3		1132	73.0-73.3	✓		1			X	
✓ PT-RI26-75.0-75.3		1138	75.0-75.3	✓		1			X	
✓ PT-RI26-103.7-104.0		1146	103.7-104.0	✓		1			X	
✓ PT-RI26-108.5-109.0		1153	108.5-109.0	✓		1			X	
TOTAL										

RELIQUISHED BY: [Signature] (FedEx) TIME/DATE: 1400 / 6/21/17 RECEIVED BY COMPANY: Jamb PTS Labs. Inc.

RELIQUISHED BY: TIME/DATE: _____ RECEIVED BY COMPANY: _____

RELIQUISHED BY: TIME/DATE: _____ RECEIVED BY COMPANY: _____

TURNAROUND TIME (CIRCLE ONE): SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS **NORMAL**

SAMPLE INTEGRITY: INTACT N TEMP: 78.2°F INTACT Y N

- WBW Office Locations:
- 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 - 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 - 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 - 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM 47320 No 13138

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Manton
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400C, M03B LABORATORY PTS
 SAMPLER Amy Manton SIGNATURE Amy Manton DATE 6/21/17 YEAR 2017

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RT26-114.0-114.S	6/20/17	12:00	114.0-114.S	/	S I U NO				X	* Hold pending further instruction from J. Donovan / Ramboll Environ
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> * HOLD * </div>										
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> (AMS) </div>										
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> TOTAL </div>										

RELINQUISHED BY <u>Amy Manton</u>	TIME/DATE 1400 / 6/20/17	RECEIVED BY COMPANY <u>Grand PTS Labs. Inc</u>	TIME/DATE 12:30 6/22/17
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE

5WBU Office Locations:

- 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
- 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
- 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
- 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934



5730 Centralcrest St. • Houston, TX 77092
Telephone (713) 316-1800 • Fax (877) 225-9953

April 2, 2018

Ross Russell, PG
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 47354
Project Name: NERT
Project Number: 2141400C M03B

Dear Mr. Russell,

Please find enclosed report for Physical Properties analyses conducted upon samples received from your NERT project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please contact myself or Emeka Anazodo at (713) 316-1800.

Sincerely,
PTS Laboratories, Inc.

Rick Schweizer

Rick Schweizer
Laboratory Supervisor

Encl.

Project Name: NERT
 Project Number: 21-41400C, Phase M03D

PTS File No: 47354
 Client: Ramboll Environ

TEST PROGRAM - 20180305

CORE ID	PTS Plug NO	Depth ft.	Core Recovery ft.	Grain Size Analysis	Atterberg Limits ASTM D4318	USCS Soil Classification ASTM D2487	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
			Plugs:	Grab	Grab		Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
Date Received: 20170817												
PT-RI15-54.5-55.0	1	54.5-55.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI15-75.0-75.5	2	75.0-75.5	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-RI15-96.0-96.5	3	96.0-96.5	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-RI15-116.0-116.5	4	116.0-116.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-RI15-134.0-134.5	5	134.0-134.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M195-46.5-47.0	6	46.5-47.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M195-60.0-60.5	7	60.0-60.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M195-67.5-67.8	8	67.5-67.8	N/A	X	X(1)	X					X	16 oz jar
PT-M195-79.5-80.0	9	79.5-80.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M195-101.0-101.5	10	101.0-101.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-M195-146.0-146.5	11	146.0-146.5	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-MI97-23.0-23.3	12	23.0-23.3	N/A	X	X(1)	X					X	16 oz jar
PT-MI97-52.5-53.0	13	52.5-53.0	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-MI97-64.2-64.5	14	64.2-64.5	N/A	X	X(1)	X					X	16 oz jar
PT-MI97-82.5-83.0	15	82.5-83.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-MI97-119.0-119.5	16	119.0-119.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-MI97-124.0-124.3	17	124.0-124.3	N/A	X	X(1)	X					X	16 oz jar
PT-MI97-135.0-135.4	18	135.0-135.4	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-MI97-138.5-139.0	19	138.5-139.0	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-MI97-145.5-146.0	20	145.5-146.0	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-M223-7.5-7.8	21	7.5-7.8	N/A	X	X(1)	X					X	16 oz jar
PT-M223-13.0-13.3	22	13.0-13.3	N/A	X	X(1)	X					X	16 oz jar
PT-M223-27.5-27.8	23	27.5-27.8	N/A	X	X(1)	X					X	16 oz jar
PT-M226-7.5-7.8	24	7.5-7.8	N/A	X	X(1)	X					X	16 oz jar
PT-M226-13.7-14.0	25	13.7-14.0	N/A	X	X(1)	X					X	16 oz jar
PT-M226-36.0-36.5	26	36.0-36.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC167-11.0-11.3	27	11.0-11.3	N/A	X	X(1)	X					X	16 oz jar
PT-PC167-17.8-18.3	28	17.8-18.3	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PC167-21.3-21.8	29	21.3-21.8	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PC170-22.5-22.8	30	22.5-22.8	N/A	X	X(1)	X					X	16 oz jar
PT-PC170-37.0-37.5	31	37.0-37.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC170-43.5-44.0	32	43.5-44.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC170-47.5-48.0	33	47.5-48.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC170-49.0-49.5	34	49.0-49.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC170-50.2-50.7	35	50.2-50.7	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC178-27.7-28.0	36	27.7-28.0	N/A	X	X(1)	X					X	16 oz jar

Project Name: NERT
 Project Number: 21-41400C, Phase M03D

PTS File No: 47354
 Client: Ramboll Environ

TEST PROGRAM - 20180305

CORE ID	PTS Plug NO	Depth ft.	Core Recovery ft.	Grain Size Analysis	Atterberg Limits ASTM D4318	USCS Soil Classification ASTM D2487	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
			Plugs:	Grab	Grab		Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-PC178-37.0-37.5	37	37.0-37.5	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PC178-45.0-45.5	38	45.0-45.5	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PC178-55.0-55.5	39	55.0-55.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC178-61.0-61.5	40	61.0-61.5	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC178-72.5-73.0	41	72.5-73.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC195-57.0-57.5	42	57.0-57.6	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PC195-68.5-69.0	43	68.5-69.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PCDB4-33.5-34.5	44	33.5-34.6	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB4-43.5-44.5	45	43.5-44.6	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB4-57.0-58.0	46	57.0-58.0	N/A	X	X(1)	X					X	16 oz jar
PT-PCDB4-68.0-69.0	47	68.0-69.0	N/A	X	X(1)	X					X	16 oz jar
PT-PCDB4-71.0-72.0	48	71.0-72.1	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PCDB7-34.5-35.5	49	34.5-35.6	N/A	X	X(1)	X					X	16 oz jar
PT-PCDB7-43.0-44.0	50	43.0-44.0	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB7-48.0-49.0	51	48.0-49.0	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PCDB7-54.5-55.5	52	54.5-55.5	N/A	X	X(1)	X					X	16 oz jar
PT-PCDB10-20.0-20.3	53	20.0-20.3	N/A	X	X(1)	X					X	16 oz jar
PT-PCDB10-33.3-33.8	54	33.3-33.8	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PCDB10-40.4-40.9	55	40.4-40.9	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB10-48.7-49.0	56	48.7-49.0	N/A	X	X(1)	X					X	16 oz jar
PT-PCDB10-58.2-58.7	57	58.2-58.7	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PCDB10-68.5-69.0	58	68.5-69.0	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB10-77.8-78.3	59	77.8-78.3	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PCDB10-85.5-86.0	60	85.5-86.0	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB11-16.7-17.0	61	16.7-17.0	N/A	X	X(1)	X					X	16 oz jar
PT-PCDB11-29.0-29.5	62	29.0-29.5	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB11-40.8-41.3	63	40.8-41.3	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PCDB11-50.0-50.5	64	50.0-50.5	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB11-58.5-58.8	65	58.5-58.8	N/A	X	X	X	X	X	X		X	16 oz jar
PT-PCDB11-68.3-68.8	66	68.3-68.8	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
PT-PCDB11-78.7-79.2	67	78.7-79.2	N/A	X	X	X	X	X	X		X	Foil wrapped core in Ziploc bag
PT-PCDB11-86.2-86.7	68	86.2-86.7	N/A	X	X	X	X	X	X	X	X	Foil wrapped core in Ziploc bag
TOTALS:			68	68	68	68	49	49	49	20	68	68

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422)

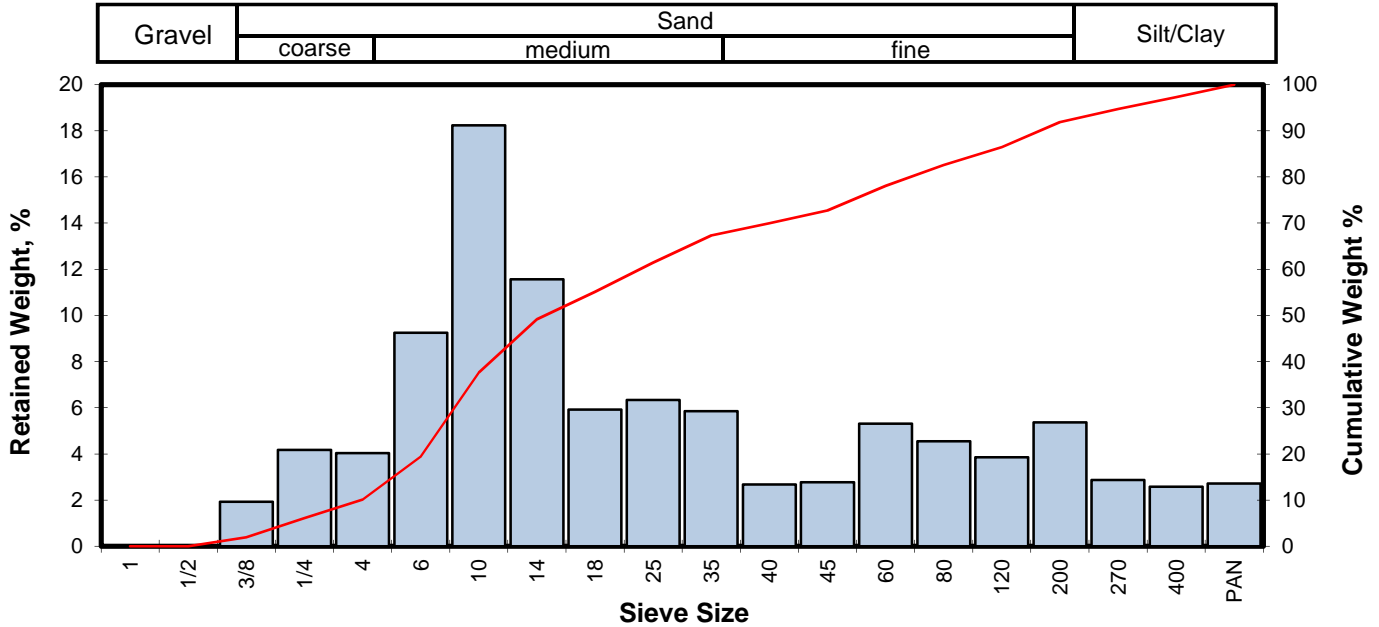
PROJECT NAME: Nert
PROJECT NO: 2141400C, MO3B

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size			Silt/Clay
					Coarse	Medium	Fine	
PT-M197-23.0-23.3	23.0-23.3	Medium sand	1.348	10.14	27.48	32.36	21.86	8.17
PT-M197-119.0-119.5	119.0-119.5	Fine sand	0.112	0.00	1.09	20.35	41.67	36.89
PT-M197-124.0-124.3	124.0-124.3	Coarse sand	2.375	32.66	21.22	23.16	17.81	5.15
PT-M223- 7.5-7.8	7.5-7.8	Medium sand	0.692	10.01	19.09	29.44	29.23	12.23
PT-M223-13.0-13.3	13.0-13.3	Medium sand	1.460	5.04	33.96	34.46	18.45	8.09
PT-M223-27.5-27.8	27.5-27.8	Fine sand	0.104	0.00	0.49	18.91	39.77	40.82
PT-M226-7.5-7.8	7.5-7.8	Medium sand	0.830	3.32	21.58	39.82	25.72	9.55
PT-M226-13.7-14.0	13.7-14.0	Coarse sand	2.139	22.83	29.22	26.47	16.49	4.99
PT-M226-36.0-36.5	36.0-36.5	Medium sand	0.562	7.41	17.43	30.37	21.60	23.19
PT-PC167-11.0-11.3	11.0-11.3	Coarse sand	2.231	27.28	25.91	24.94	17.27	4.60
PT-PC170-22.5-22.8	22.5-22.8	Coarse sand	4.219	45.89	23.04	16.39	10.75	3.93
PT-PC170-50.2-50.7	50.2-50.7	Medium sand	0.435	1.15	12.10	37.50	37.34	11.92
PT-PC178 27.7-28.0	27.7-28.0	Coarse sand	3.219	32.10	36.57	25.38	4.03	1.93
PT-PCDB10-20.0-20.3	20.0-20.3	Medium sand	0.690	7.25	18.95	32.72	29.59	11.49
PT-PCDB10-48.7-49.0	48.7-49.0	Fine sand	0.268	7.47	7.12	20.01	47.79	17.61
PT-PCDB11-16.7-17.0	16.7-17.0	Medium sand	0.665	7.96	17.18	34.12	28.87	11.87
PT-PCDB11-29.0-29.5	29.0-29.5	Fine sand	0.192	7.08	4.88	13.27	51.68	23.09
PT-PCDB11-58.5-58.8	58.5-58.8	Fine sand	0.151	0.00	1.45	12.72	60.64	25.18

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M197-23.0-23.3
 Depth, ft: 23.0-23.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	2.59	1.93	1.93
0.2500	6.351	-2.67	1/4	5.59	4.17	6.10
0.1873	4.757	-2.25	4	5.41	4.04	10.14
0.1324	3.364	-1.75	6	12.40	9.25	19.39
0.0787	2.000	-1.00	10	24.44	18.23	37.62
0.0557	1.414	-0.50	14	15.51	11.57	49.19
0.0394	1.000	0.00	18	7.93	5.92	55.10
0.0278	0.707	0.50	25	8.50	6.34	61.44
0.0197	0.500	1.00	35	7.85	5.86	67.30
0.0166	0.420	1.25	40	3.59	2.68	69.98
0.0139	0.354	1.50	45	3.72	2.77	72.75
0.0098	0.250	2.00	60	7.12	5.31	78.06
0.0070	0.177	2.50	80	6.09	4.54	82.60
0.0049	0.125	3.00	120	5.17	3.86	86.46
0.0029	0.074	3.75	200	7.20	5.37	91.83
0.0021	0.053	4.25	270	3.84	2.86	94.70
0.0015	0.037	4.75	400	3.46	2.58	97.28
			PAN	3.65	2.72	100.00
TOTALS				134.06	100.00	100.00

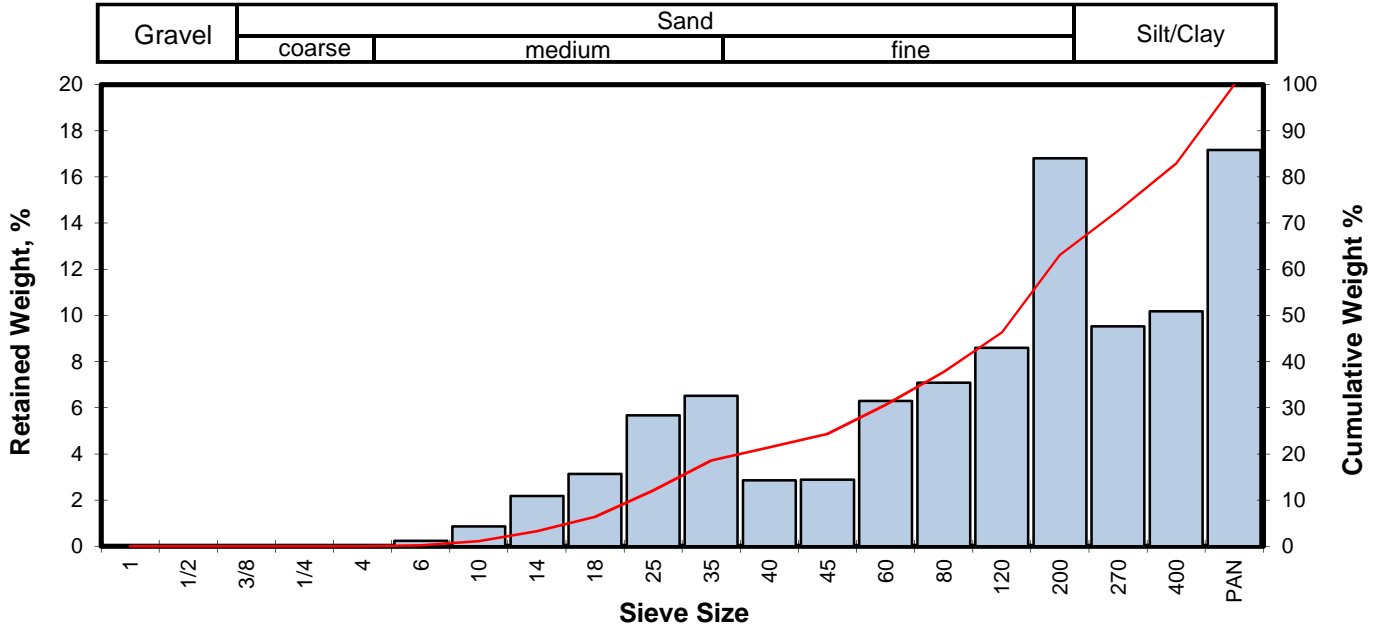
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.82	0.2781	7.064
10	-2.26	0.1891	4.804
16	-1.93	0.1503	3.819
25	-1.52	0.1128	2.866
40	-0.90	0.0733	1.862
50	-0.43	0.0531	1.348
60	0.39	0.0301	0.765
75	1.71	0.0120	0.305
84	2.68	0.0061	0.156
90	3.49	0.0035	0.089
95	4.31	0.0020	0.050

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.43	-0.43	-0.43
Median, in.	0.0531	0.0531	0.0531
Median, mm	1.348	1.348	1.348
Mean, phi	-0.67	0.37	0.11
Mean, in.	0.0624	0.0304	0.0366
Mean, mm	1.586	0.772	0.929
Sorting	3.064	2.307	2.234
Skewness	0.694	0.349	0.339
Kurtosis	0.272	0.545	0.904
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	10.14
Coarse Sand	10	27.48
Medium Sand	40	32.36
Fine Sand	200	21.86
Silt/Clay	<200	8.17
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M197-119.0-119.5
 Depth, ft: 119.0-119.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.27	0.24	0.24
0.0787	2.000	-1.00	10	0.97	0.85	1.09
0.0557	1.414	-0.50	14	2.48	2.18	3.27
0.0394	1.000	0.00	18	3.56	3.13	6.41
0.0278	0.707	0.50	25	6.44	5.67	12.08
0.0197	0.500	1.00	35	7.40	6.51	18.59
0.0166	0.420	1.25	40	3.24	2.85	21.44
0.0139	0.354	1.50	45	3.28	2.89	24.33
0.0098	0.250	2.00	60	7.16	6.30	30.63
0.0070	0.177	2.50	80	8.05	7.09	37.71
0.0049	0.125	3.00	120	9.77	8.60	46.31
0.0029	0.074	3.75	200	19.09	16.80	63.11
0.0021	0.053	4.25	270	10.83	9.53	72.65
0.0015	0.037	4.75	400	11.57	10.18	82.83
			PAN	19.51	17.17	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.22	0.0460	1.168
10	0.32	0.0316	0.803
16	0.80	0.0226	0.574
25	1.55	0.0134	0.341
40	2.63	0.0063	0.161
50	3.16	0.0044	0.112
60	3.61	0.0032	0.082
75	4.37	0.0019	0.049
84	4.43	0.0018	0.047
90	2.77	0.0058	0.147
95	1.38	0.0151	0.383

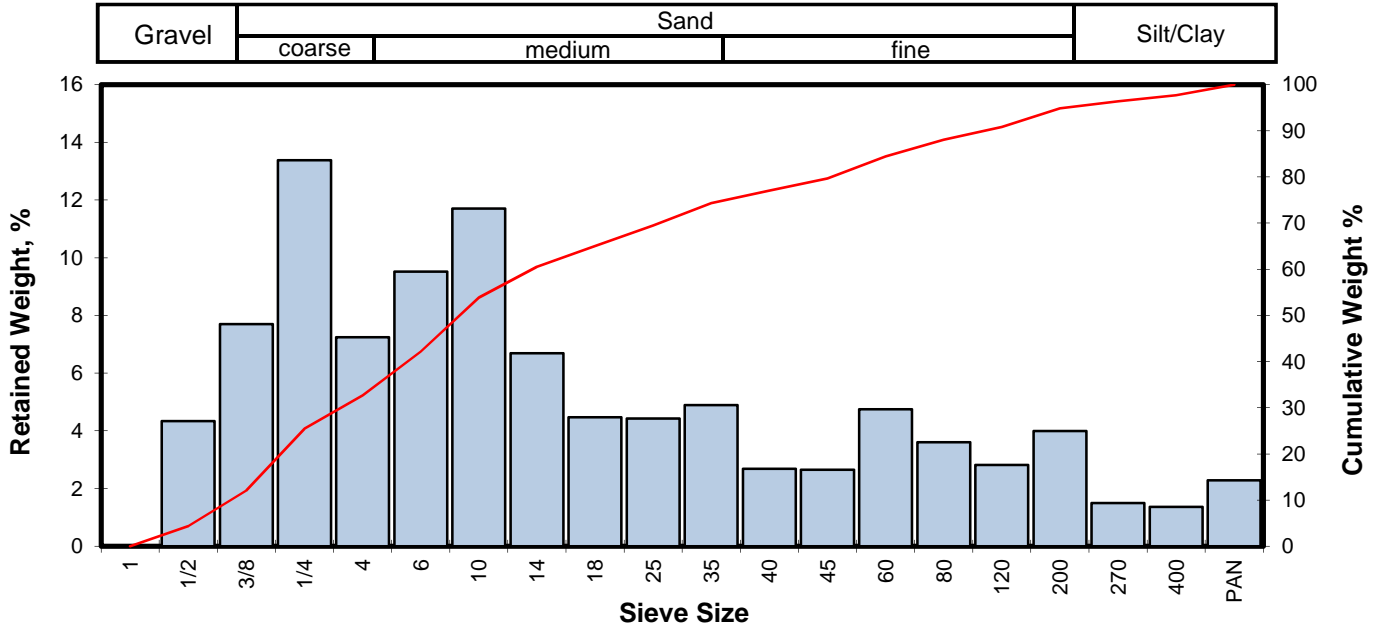
Measure	Trask	Inman	Folk-Ward
Median, phi	3.16	3.16	3.16
Median, in.	0.0044	0.0044	0.0044
Median, mm	0.112	0.112	0.112
Mean, phi	2.36	2.61	2.80
Mean, in.	0.0077	0.0064	0.0057
Mean, mm	0.195	0.163	0.144
Sorting	2.650	1.812	1.150
Skewness	1.153	-0.304	-1.760
Kurtosis	0.223	-0.556	0.234
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	1.09
Medium Sand	40	20.35
Fine Sand	200	41.67
Silt/Clay	<200	36.89
TOTAL		100

TOTALS	113.62	100.00	100.00
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Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M197-124.0-124.3
 Depth, ft: 124.0-124.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	10.38	4.34	4.34
0.3740	9.500	-3.25	3/8	18.40	7.70	12.04
0.2500	6.351	-2.67	1/4	31.99	13.38	25.42
0.1873	4.757	-2.25	4	17.31	7.24	32.66
0.1324	3.364	-1.75	6	22.75	9.51	42.17
0.0787	2.000	-1.00	10	27.98	11.70	53.87
0.0557	1.414	-0.50	14	15.99	6.69	60.56
0.0394	1.000	0.00	18	10.69	4.47	65.03
0.0278	0.707	0.50	25	10.59	4.43	69.46
0.0197	0.500	1.00	35	11.69	4.89	74.35
0.0166	0.420	1.25	40	6.42	2.69	77.03
0.0139	0.354	1.50	45	6.35	2.66	79.69
0.0098	0.250	2.00	60	11.34	4.74	84.43
0.0070	0.177	2.50	80	8.61	3.60	88.03
0.0049	0.125	3.00	120	6.73	2.81	90.85
0.0029	0.074	3.75	200	9.56	4.00	94.85
0.0021	0.053	4.25	270	3.59	1.50	96.35
0.0015	0.037	4.75	400	3.26	1.36	97.71
			PAN	5.47	2.29	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.61	0.4807	12.211
10	-3.35	0.4022	10.216
16	-3.08	0.3320	8.432
25	-2.69	0.2532	6.431
40	-1.86	0.1433	3.640
50	-1.25	0.0935	2.375
60	-0.54	0.0573	1.456
75	1.06	0.0189	0.479
84	1.95	0.0102	0.258
90	2.85	0.0055	0.139
95	3.80	0.0028	0.072

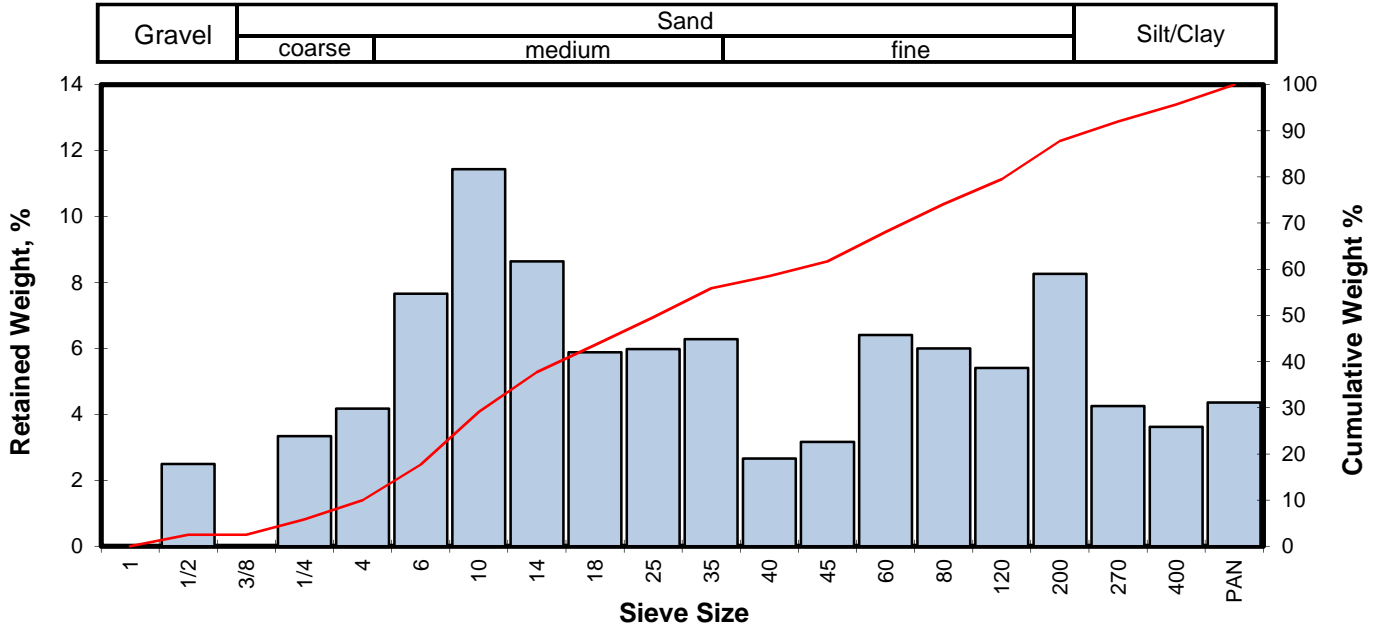
Measure	Trask	Inman	Folk-Ward
Median, phi	-1.25	-1.25	-1.25
Median, in.	0.0935	0.0935	0.0935
Median, mm	2.375	2.375	2.375
Mean, phi	-1.79	-0.56	-0.79
Mean, in.	0.1360	0.0581	0.0681
Mean, mm	3.455	1.475	1.729
Sorting	3.662	2.515	2.380
Skewness	0.739	0.273	0.318
Kurtosis	0.295	0.473	0.811
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	32.66
Coarse Sand	10	21.22
Medium Sand	40	23.16
Fine Sand	200	17.81
Silt/Clay	<200	5.15
TOTAL		100

TOTALS				239.10	100.00	100.00
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Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M223- 7.5-7.8
 Depth, ft: 7.5-7.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	2.87	2.49	2.49
0.3740	9.500	-3.25	3/8	0.00	0.00	2.49
0.2500	6.351	-2.67	1/4	3.85	3.34	5.83
0.1873	4.757	-2.25	4	4.81	4.18	10.01
0.1324	3.364	-1.75	6	8.82	7.66	17.67
0.0787	2.000	-1.00	10	13.17	11.43	29.10
0.0557	1.414	-0.50	14	9.95	8.64	37.74
0.0394	1.000	0.00	18	6.78	5.89	43.62
0.0278	0.707	0.50	25	6.89	5.98	49.61
0.0197	0.500	1.00	35	7.23	6.28	55.88
0.0166	0.420	1.25	40	3.06	2.66	58.54
0.0139	0.354	1.50	45	3.64	3.16	61.70
0.0098	0.250	2.00	60	7.38	6.41	68.10
0.0070	0.177	2.50	80	6.91	6.00	74.10
0.0049	0.125	3.00	120	6.23	5.41	79.51
0.0029	0.074	3.75	200	9.51	8.26	87.77
0.0021	0.053	4.25	270	4.90	4.25	92.02
0.0015	0.037	4.75	400	4.17	3.62	95.64
			PAN	5.02	4.36	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.81	0.2765	7.022
10	-2.25	0.1874	4.760
16	-1.86	0.1428	3.627
25	-1.27	0.0949	2.410
40	-0.31	0.0487	1.238
50	0.53	0.0272	0.692
60	1.37	0.0153	0.388
75	2.58	0.0066	0.167
84	3.41	0.0037	0.094
90	4.01	0.0024	0.062
95	4.66	0.0016	0.040

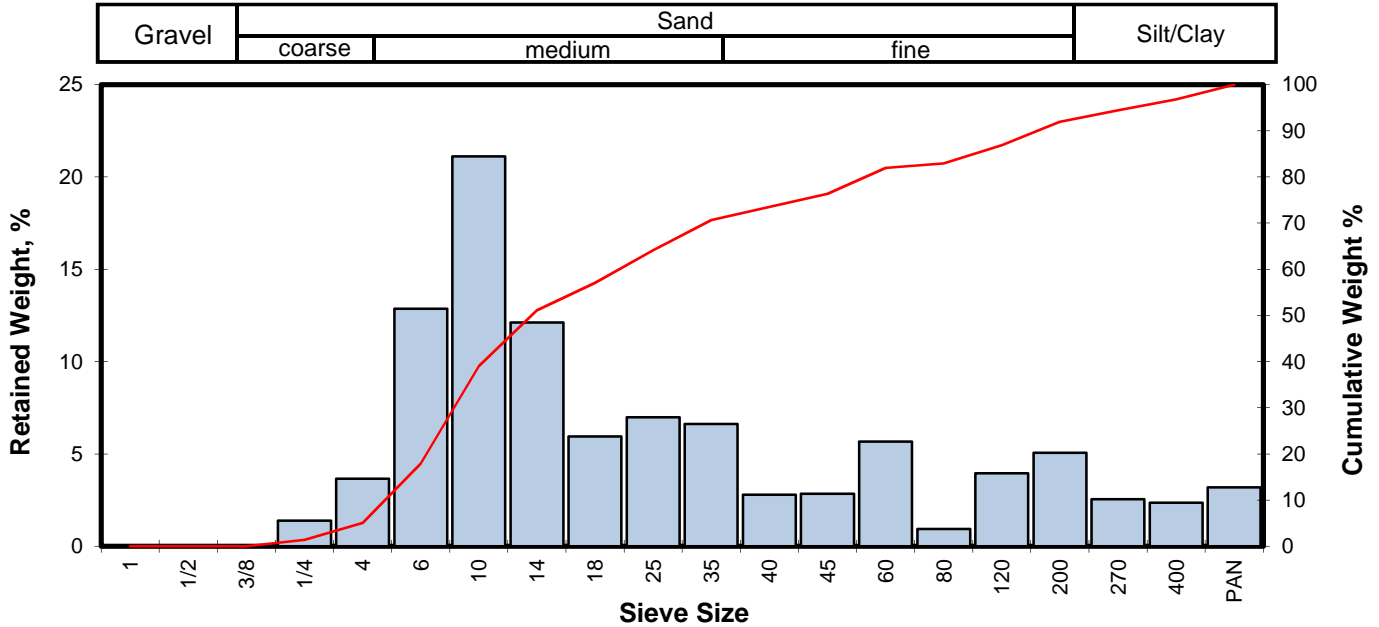
Measure	Trask	Inman	Folk-Ward
Median, phi	0.53	0.53	0.53
Median, in.	0.0272	0.0272	0.0272
Median, mm	0.692	0.692	0.692
Mean, phi	-0.37	0.77	0.69
Mean, in.	0.0507	0.0230	0.0243
Mean, mm	1.288	0.585	0.618
Sorting	3.800	2.633	2.449
Skewness	0.917	0.092	0.099
Kurtosis	0.239	0.419	0.795
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	10.01
Coarse Sand	10	19.09
Medium Sand	40	29.44
Fine Sand	200	29.23
Silt/Clay	<200	12.23
TOTAL		100

TOTALS	115.19	100.00	100.00
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Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M223-13.0-13.3
 Depth, ft: 13.0-13.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	2.22	1.39	1.39
0.1873	4.757	-2.25	4	5.86	3.66	5.04
0.1324	3.364	-1.75	6	20.59	12.85	17.90
0.0787	2.000	-1.00	10	33.81	21.10	39.00
0.0557	1.414	-0.50	14	19.41	12.12	51.12
0.0394	1.000	0.00	18	9.52	5.94	57.06
0.0278	0.707	0.50	25	11.20	6.99	64.05
0.0197	0.500	1.00	35	10.62	6.63	70.68
0.0166	0.420	1.25	40	4.46	2.78	73.46
0.0139	0.354	1.50	45	4.55	2.84	76.30
0.0098	0.250	2.00	60	9.07	5.66	81.97
0.0070	0.177	2.50	80	1.49	0.93	82.90
0.0049	0.125	3.00	120	6.34	3.96	86.85
0.0029	0.074	3.75	200	8.10	5.06	91.91
0.0021	0.053	4.25	270	4.07	2.54	94.45
0.0015	0.037	4.75	400	3.78	2.36	96.81
			PAN	5.11	3.19	100.00
TOTALS				160.20	100.00	100.00

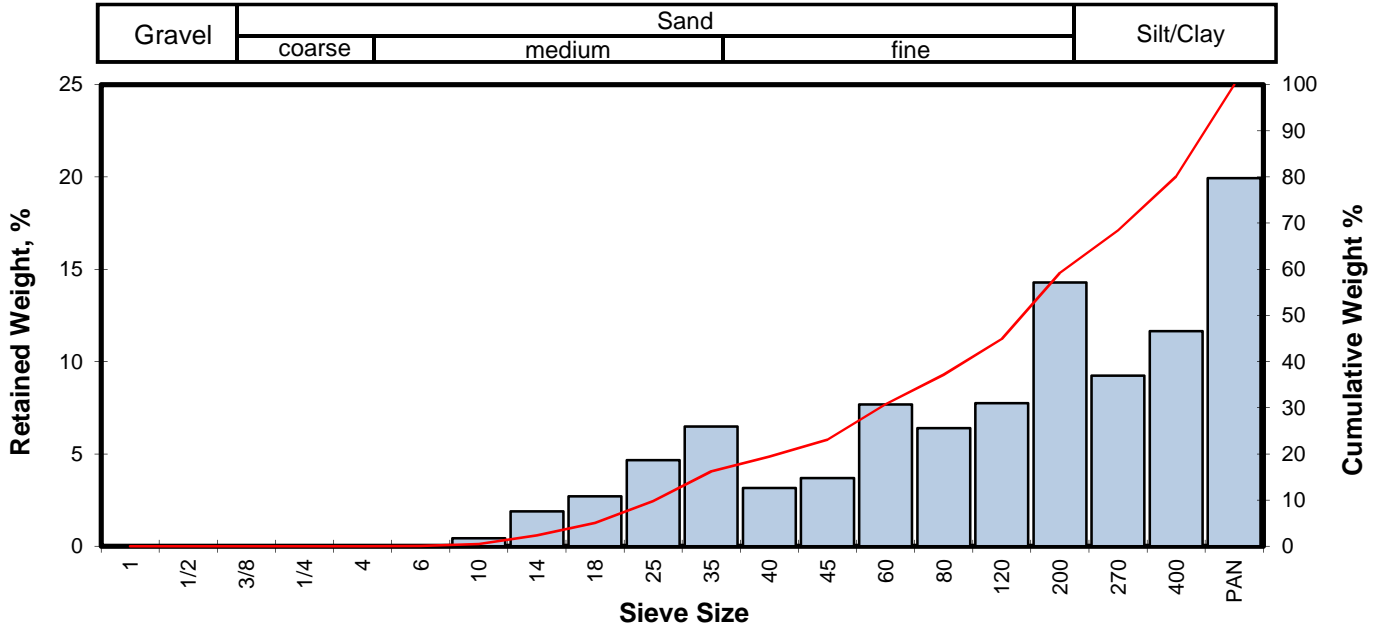
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.25	0.1879	4.773
10	-2.06	0.1638	4.162
16	-1.82	0.1394	3.540
25	-1.50	0.1112	2.824
40	-0.96	0.0765	1.944
50	-0.55	0.0575	1.460
60	0.21	0.0340	0.864
75	1.39	0.0151	0.383
84	2.64	0.0063	0.160
90	3.47	0.0036	0.090
95	4.37	0.0019	0.048

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.55	-0.55	-0.55
Median, in.	0.0575	0.0575	0.0575
Median, mm	1.460	1.460	1.460
Mean, phi	-0.68	0.41	0.09
Mean, in.	0.0631	0.0297	0.0370
Mean, mm	1.603	0.754	0.940
Sorting	2.716	2.232	2.119
Skewness	0.712	0.427	0.456
Kurtosis	0.300	0.484	0.941
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	5.04
Coarse Sand	10	33.96
Medium Sand	40	34.46
Fine Sand	200	18.45
Silt/Clay	<200	8.09
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M223-27.5-27.8
 Depth, ft: 27.5-27.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.06	0.05	0.05
0.0787	2.000	-1.00	10	0.50	0.44	0.49
0.0557	1.414	-0.50	14	2.14	1.89	2.39
0.0394	1.000	0.00	18	3.07	2.71	5.10
0.0278	0.707	0.50	25	5.27	4.66	9.76
0.0197	0.500	1.00	35	7.34	6.49	16.25
0.0166	0.420	1.25	40	3.58	3.16	19.41
0.0139	0.354	1.50	45	4.17	3.69	23.10
0.0098	0.250	2.00	60	8.68	7.67	30.77
0.0070	0.177	2.50	80	7.24	6.40	37.17
0.0049	0.125	3.00	120	8.76	7.74	44.91
0.0029	0.074	3.75	200	16.15	14.27	59.18
0.0021	0.053	4.25	270	10.46	9.25	68.43
0.0015	0.037	4.75	400	13.17	11.64	80.07
			PAN	22.55	19.93	100.00
TOTALS				113.14	100.00	100.00

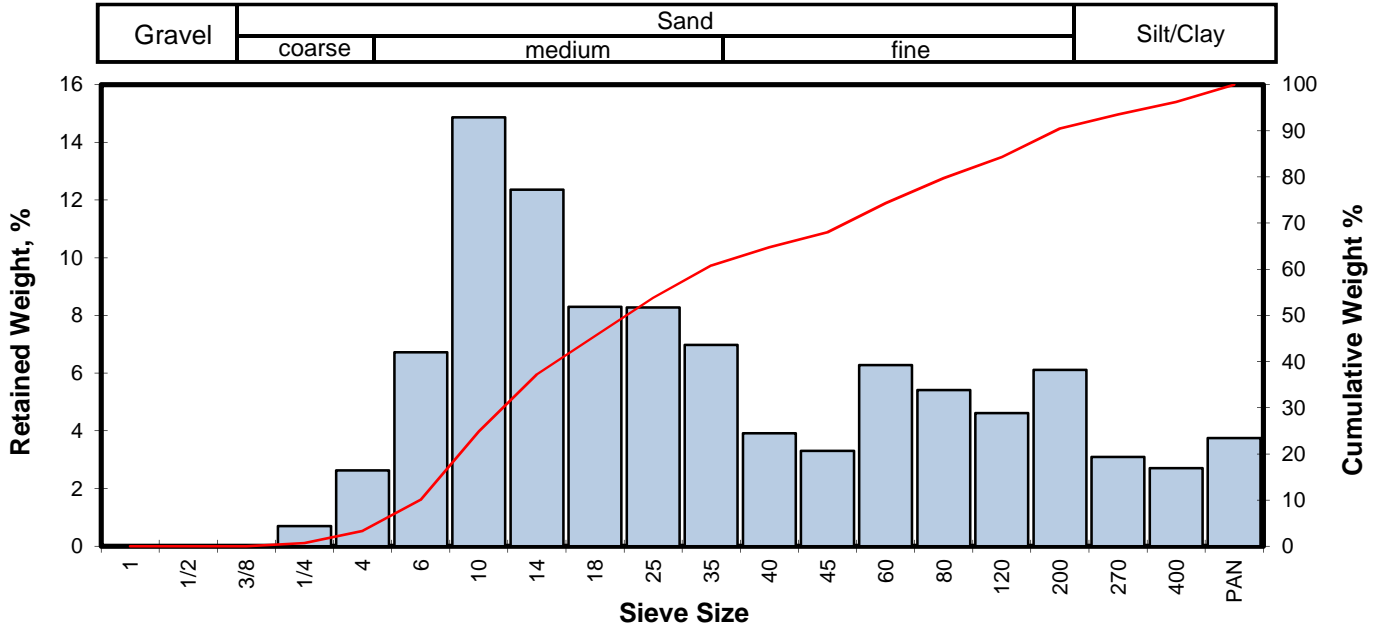
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.02	0.0399	1.013
10	0.52	0.0275	0.698
16	0.98	0.0199	0.507
25	1.62	0.0128	0.324
40	2.68	0.0061	0.156
50	3.27	0.0041	0.104
60	3.79	0.0028	0.072
75	4.53	0.0017	0.043
84	3.81	0.0028	0.071
90	2.38	0.0075	0.192
95	1.19	0.0172	0.438

Measure	Trask	Inman	Folk-Ward
Median, phi	3.27	3.27	3.27
Median, in.	0.0041	0.0041	0.0041
Median, mm	0.104	0.104	0.104
Mean, phi	2.44	2.40	2.69
Mean, in.	0.0072	0.0075	0.0061
Mean, mm	0.184	0.190	0.155
Sorting	2.740	1.416	0.891
Skewness	1.140	-0.615	-2.523
Kurtosis	0.278	-0.573	0.171
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.49
Medium Sand	40	18.91
Fine Sand	200	39.77
Silt/Clay	<200	40.82
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M226-7.5-7.8
 Depth, ft: 7.5-7.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	1.01	0.70	0.70
0.1873	4.757	-2.25	4	3.80	2.63	3.32
0.1324	3.364	-1.75	6	9.72	6.72	10.04
0.0787	2.000	-1.00	10	21.51	14.87	24.91
0.0557	1.414	-0.50	14	17.88	12.36	37.27
0.0394	1.000	0.00	18	12.00	8.29	45.56
0.0278	0.707	0.50	25	11.97	8.27	53.83
0.0197	0.500	1.00	35	10.10	6.98	60.81
0.0166	0.420	1.25	40	5.67	3.92	64.73
0.0139	0.354	1.50	45	4.78	3.30	68.04
0.0098	0.250	2.00	60	9.08	6.28	74.31
0.0070	0.177	2.50	80	7.83	5.41	79.72
0.0049	0.125	3.00	120	6.67	4.61	84.33
0.0029	0.074	3.75	200	8.85	6.12	90.45
0.0021	0.053	4.25	270	4.48	3.10	93.54
0.0015	0.037	4.75	400	3.91	2.70	96.25
			PAN	5.43	3.75	100.00
TOTALS				144.69	100.00	100.00

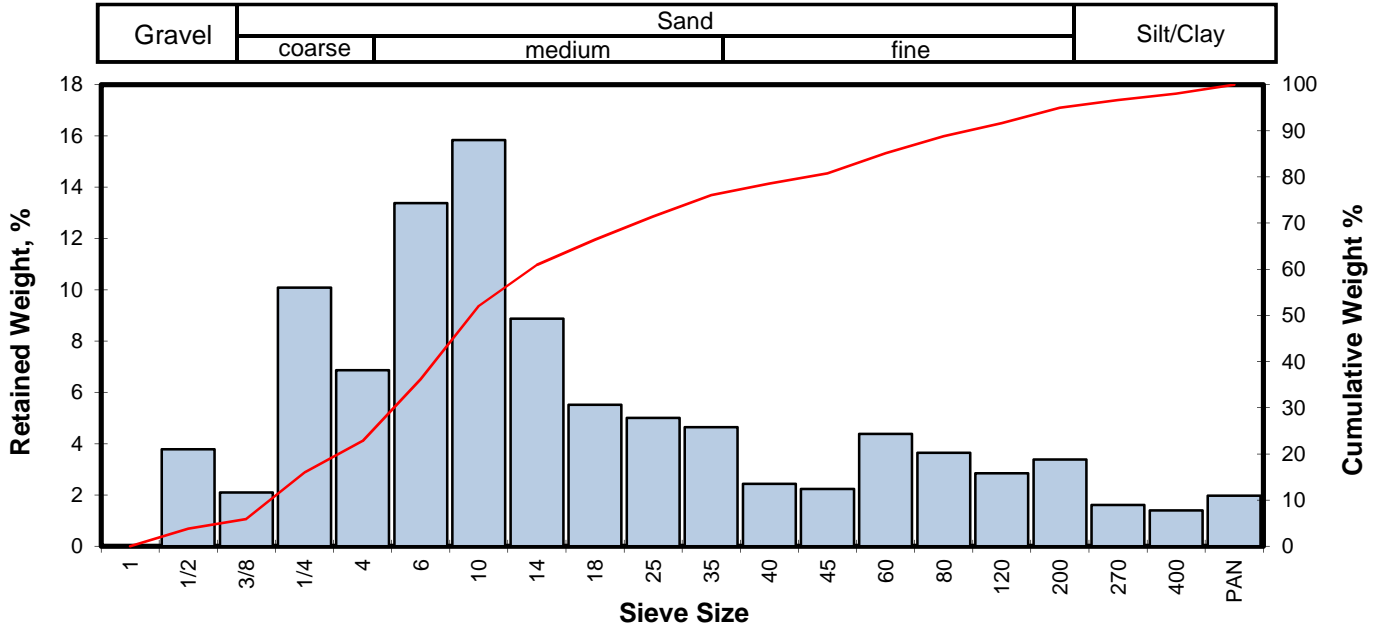
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.13	0.1718	4.363
10	-1.75	0.1327	3.371
16	-1.45	0.1075	2.731
25	-1.00	0.0785	1.995
40	-0.34	0.0497	1.262
50	0.27	0.0327	0.830
60	0.94	0.0205	0.521
75	2.06	0.0094	0.239
84	2.96	0.0050	0.128
90	3.70	0.0030	0.077
95	4.52	0.0017	0.044

Measure	Trask	Inman	Folk-Ward
Median, phi	0.27	0.27	0.27
Median, in.	0.0327	0.0327	0.0327
Median, mm	0.830	0.830	0.830
Mean, phi	-0.16	0.76	0.59
Mean, in.	0.0440	0.0233	0.0261
Mean, mm	1.117	0.592	0.662
Sorting	2.888	2.207	2.110
Skewness	0.832	0.222	0.251
Kurtosis	0.267	0.506	0.890
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	3.32
Coarse Sand	10	21.58
Medium Sand	40	39.82
Fine Sand	200	25.72
Silt/Clay	<200	9.55
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M226-13.7-14.0
 Depth, ft: 13.7-14.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	10.63	3.79	3.79
0.3740	9.500	-3.25	3/8	5.89	2.10	5.88
0.2500	6.351	-2.67	1/4	28.31	10.08	15.96
0.1873	4.757	-2.25	4	19.28	6.87	22.83
0.1324	3.364	-1.75	6	37.58	13.38	36.21
0.0787	2.000	-1.00	10	44.48	15.84	52.05
0.0557	1.414	-0.50	14	24.91	8.87	60.92
0.0394	1.000	0.00	18	15.48	5.51	66.44
0.0278	0.707	0.50	25	14.06	5.01	71.44
0.0197	0.500	1.00	35	13.04	4.64	76.09
0.0166	0.420	1.25	40	6.83	2.43	78.52
0.0139	0.354	1.50	45	6.27	2.23	80.75
0.0098	0.250	2.00	60	12.31	4.38	85.14
0.0070	0.177	2.50	80	10.24	3.65	88.78
0.0049	0.125	3.00	120	7.98	2.84	91.62
0.0029	0.074	3.75	200	9.50	3.38	95.01
0.0021	0.053	4.25	270	4.54	1.62	96.62
0.0015	0.037	4.75	400	3.94	1.40	98.03
			PAN	5.54	1.97	100.00
TOTALS				280.81	100.00	100.00

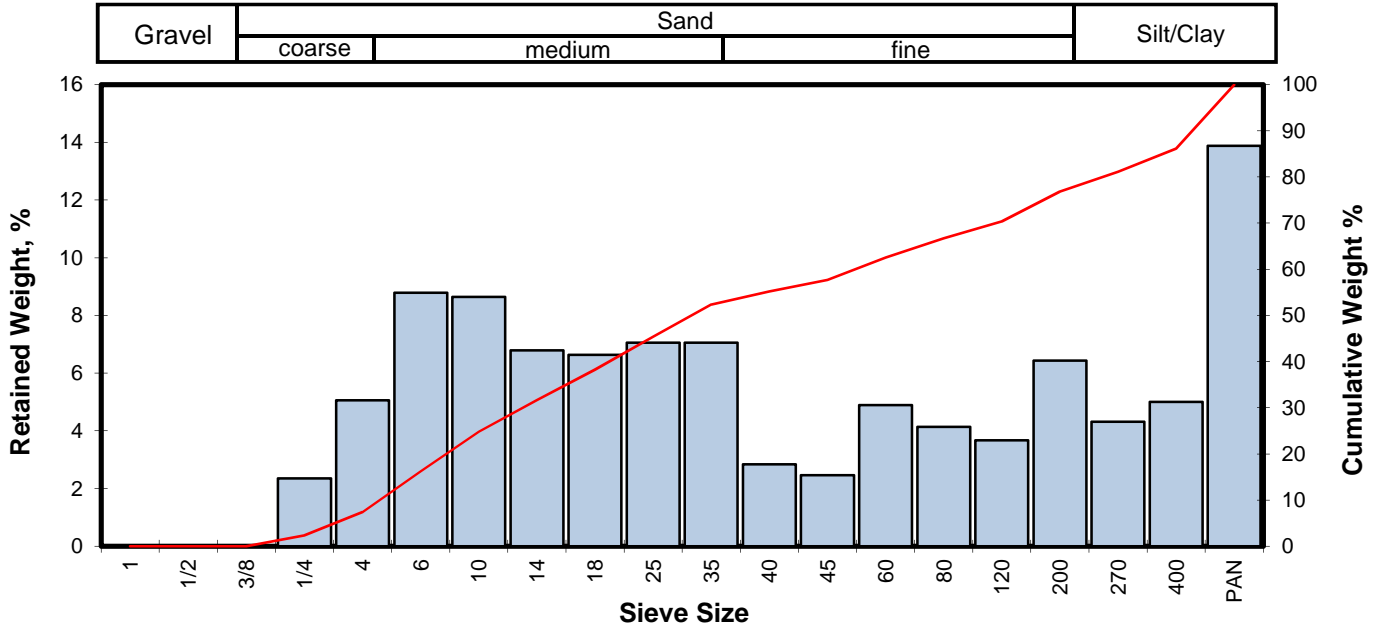
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.41	0.4199	10.664
10	-3.01	0.3173	8.060
16	-2.66	0.2497	6.342
25	-2.17	0.1770	4.497
40	-1.57	0.1169	2.970
50	-1.10	0.0842	2.139
60	-0.55	0.0577	1.466
75	0.88	0.0213	0.542
84	1.87	0.0108	0.273
90	2.71	0.0060	0.152
95	3.75	0.0029	0.074

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.10	-1.10	-1.10
Median, in.	0.0842	0.0842	0.0842
Median, mm	2.139	2.139	2.139
Mean, phi	-1.33	-0.40	-0.63
Mean, in.	0.0992	0.0518	0.0610
Mean, mm	2.520	1.317	1.548
Sorting	2.880	2.268	2.219
Skewness	0.730	0.309	0.331
Kurtosis	0.250	0.579	0.962
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	22.83
Coarse Sand	10	29.22
Medium Sand	40	26.47
Fine Sand	200	16.49
Silt/Clay	<200	4.99
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-M226-36.0-36.5
 Depth, ft: 36.0-36.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	3.91	2.35	2.35
0.1873	4.757	-2.25	4	8.42	5.06	7.41
0.1324	3.364	-1.75	6	14.62	8.79	16.20
0.0787	2.000	-1.00	10	14.37	8.64	24.84
0.0557	1.414	-0.50	14	11.30	6.79	31.63
0.0394	1.000	0.00	18	11.03	6.63	38.26
0.0278	0.707	0.50	25	11.73	7.05	45.32
0.0197	0.500	1.00	35	11.73	7.05	52.37
0.0166	0.420	1.25	40	4.72	2.84	55.21
0.0139	0.354	1.50	45	4.10	2.46	57.67
0.0098	0.250	2.00	60	8.14	4.89	62.56
0.0070	0.177	2.50	80	6.88	4.14	66.70
0.0049	0.125	3.00	120	6.11	3.67	70.37
0.0029	0.074	3.75	200	10.70	6.43	76.81
0.0021	0.053	4.25	270	7.17	4.31	81.12
0.0015	0.037	4.75	400	8.32	5.00	86.12
			PAN	23.09	13.88	100.00
TOTALS				166.34	100.00	100.00

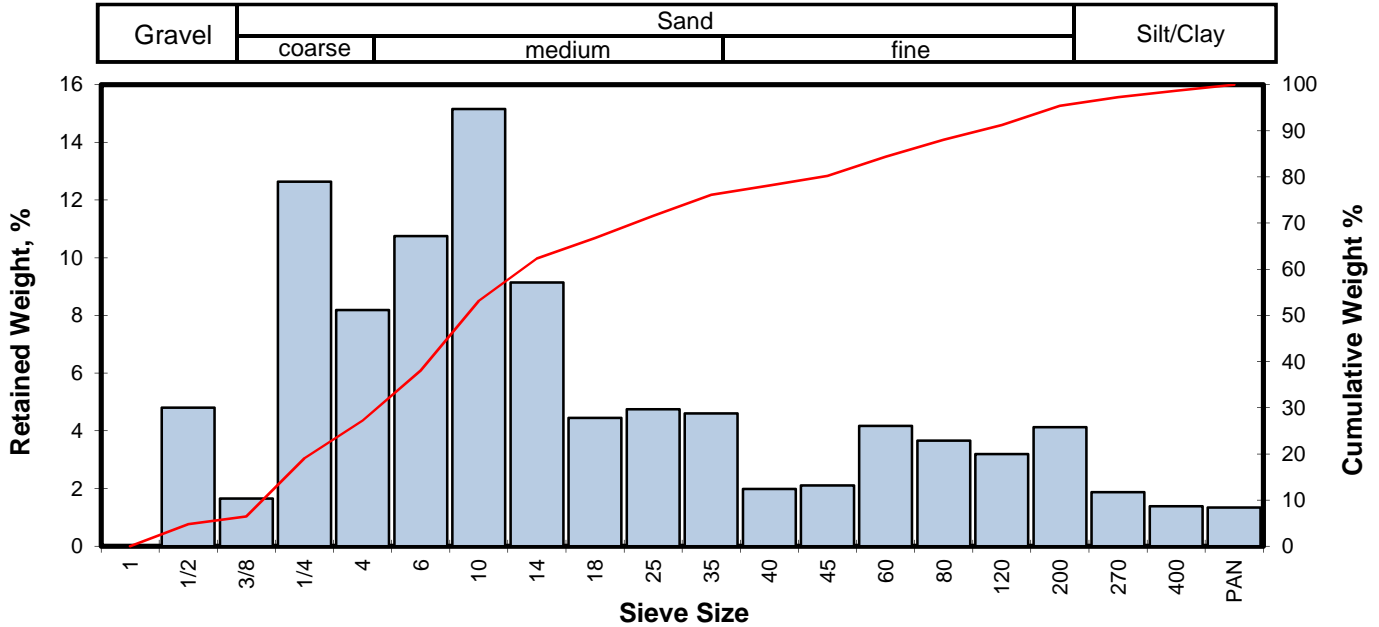
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.45	0.2149	5.459
10	-2.10	0.1691	4.295
16	-1.76	0.1335	3.390
25	-0.99	0.0781	1.984
40	0.12	0.0362	0.918
50	0.83	0.0221	0.562
60	1.74	0.0118	0.300
75	3.54	0.0034	0.086
84	4.54	0.0017	0.043
90	3.42	0.0037	0.093
95	1.71	0.0120	0.305

Measure	Trask	Inman	Folk-Ward
Median, phi	0.83	0.83	0.83
Median, in.	0.0221	0.0221	0.0221
Median, mm	0.562	0.562	0.562
Mean, phi	-0.05	1.39	1.20
Mean, in.	0.0407	0.0150	0.0171
Mean, mm	1.035	0.382	0.434
Sorting	4.803	3.150	2.205
Skewness	0.735	0.177	-0.200
Kurtosis	0.226	-0.340	0.377
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	7.41
Coarse Sand	10	17.43
Medium Sand	40	30.37
Fine Sand	200	21.60
Silt/Clay	<200	23.19
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PC167-11.0-11.3
 Depth, ft: 11.0-11.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	9.26	4.81	4.81
0.3740	9.500	-3.25	3/8	3.18	1.65	6.46
0.2500	6.351	-2.67	1/4	24.34	12.63	19.09
0.1873	4.757	-2.25	4	15.78	8.19	27.28
0.1324	3.364	-1.75	6	20.71	10.75	38.03
0.0787	2.000	-1.00	10	29.20	15.16	53.19
0.0557	1.414	-0.50	14	17.61	9.14	62.33
0.0394	1.000	0.00	18	8.58	4.45	66.78
0.0278	0.707	0.50	25	9.15	4.75	71.53
0.0197	0.500	1.00	35	8.87	4.60	76.14
0.0166	0.420	1.25	40	3.83	1.99	78.13
0.0139	0.354	1.50	45	4.06	2.11	80.23
0.0098	0.250	2.00	60	8.03	4.17	84.40
0.0070	0.177	2.50	80	7.06	3.66	88.07
0.0049	0.125	3.00	120	6.16	3.20	91.26
0.0029	0.074	3.75	200	7.96	4.13	95.40
0.0021	0.053	4.25	270	3.61	1.87	97.27
0.0015	0.037	4.75	400	2.68	1.39	98.66
			PAN	2.58	1.34	100.00
TOTALS				192.65	100.00	100.00

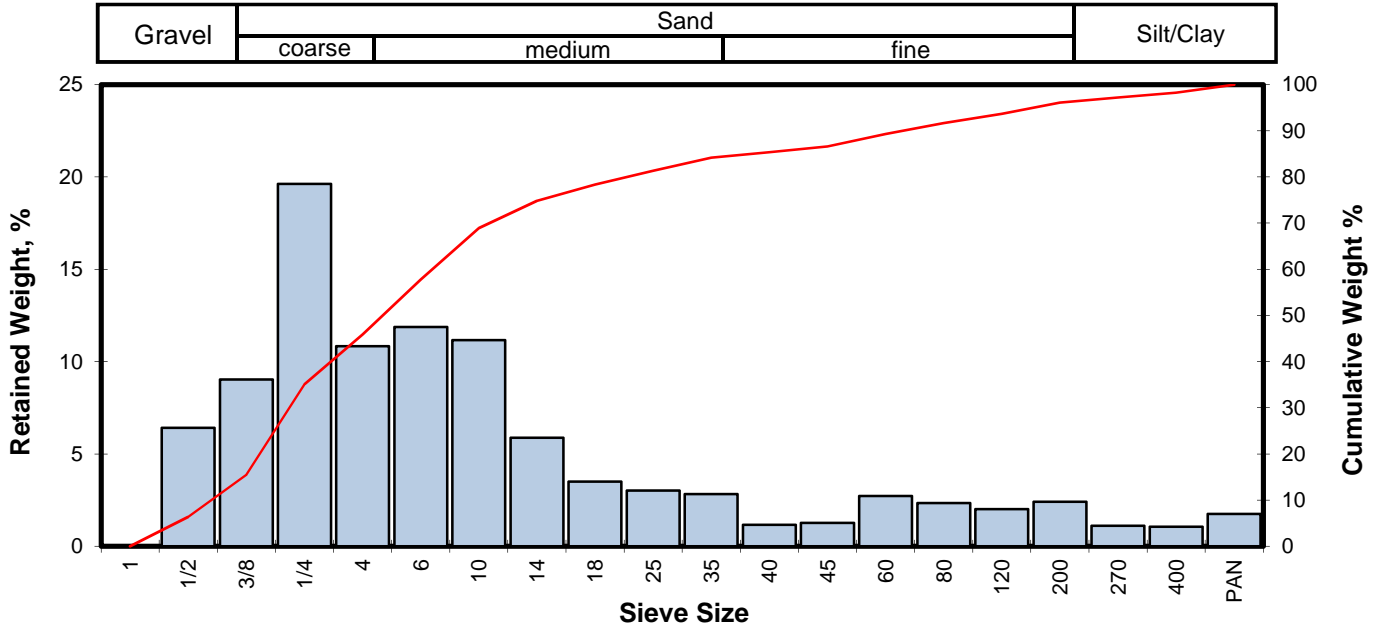
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.60	0.4766	12.106
10	-3.09	0.3341	8.486
16	-2.81	0.2759	7.009
25	-2.37	0.2030	5.156
40	-1.65	0.1238	3.144
50	-1.16	0.0878	2.231
60	-0.63	0.0608	1.545
75	0.88	0.0214	0.545
84	1.95	0.0102	0.258
90	2.80	0.0056	0.143
95	3.68	0.0031	0.078

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.16	-1.16	-1.16
Median, in.	0.0878	0.0878	0.0878
Median, mm	2.231	2.231	2.231
Mean, phi	-1.51	-0.43	-0.67
Mean, in.	0.1122	0.0530	0.0627
Mean, mm	2.850	1.346	1.593
Sorting	3.077	2.380	2.293
Skewness	0.751	0.306	0.318
Kurtosis	0.276	0.528	0.920
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	27.28
Coarse Sand	10	25.91
Medium Sand	40	24.94
Fine Sand	200	17.27
Silt/Clay	<200	4.60
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PC170-22.5-22.8
 Depth, ft: 22.5-22.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	15.10	6.41	6.41
0.3740	9.500	-3.25	3/8	21.30	9.04	15.45
0.2500	6.351	-2.67	1/4	46.22	19.61	35.06
0.1873	4.757	-2.25	4	25.52	10.83	45.89
0.1324	3.364	-1.75	6	27.99	11.88	57.77
0.0787	2.000	-1.00	10	26.30	11.16	68.93
0.0557	1.414	-0.50	14	13.86	5.88	74.81
0.0394	1.000	0.00	18	8.26	3.51	78.32
0.0278	0.707	0.50	25	7.10	3.01	81.33
0.0197	0.500	1.00	35	6.67	2.83	84.16
0.0166	0.420	1.25	40	2.73	1.16	85.32
0.0139	0.354	1.50	45	2.97	1.26	86.58
0.0098	0.250	2.00	60	6.41	2.72	89.30
0.0070	0.177	2.50	80	5.50	2.33	91.63
0.0049	0.125	3.00	120	4.76	2.02	93.65
0.0029	0.074	3.75	200	5.69	2.41	96.07
0.0021	0.053	4.25	270	2.63	1.12	97.18
0.0015	0.037	4.75	400	2.51	1.07	98.25
			PAN	4.13	1.75	100.00
TOTALS				235.65	100.00	100.00

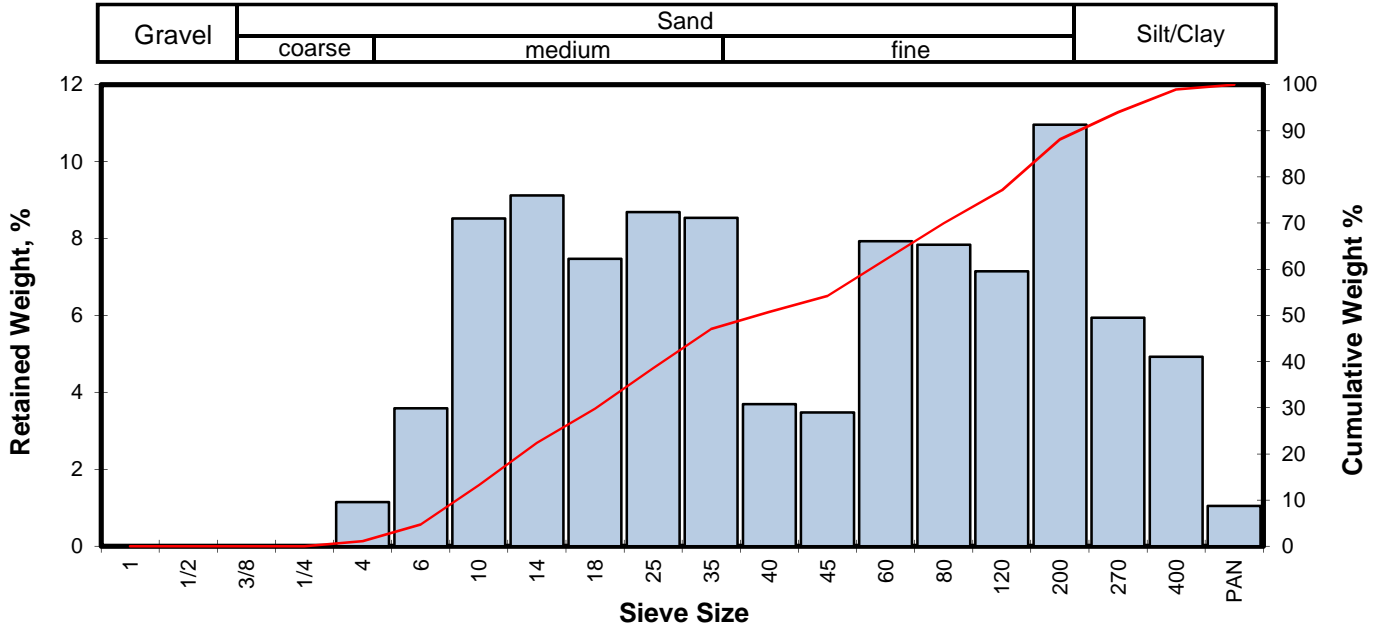
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.86	0.5731	14.558
10	-3.49	0.4413	11.209
16	-3.23	0.3698	9.393
25	-2.97	0.3074	7.808
40	-2.48	0.2192	5.567
50	-2.08	0.1661	4.219
60	-1.60	0.1193	3.031
75	-0.47	0.0546	1.388
84	0.97	0.0201	0.510
90	2.15	0.0089	0.225
95	3.42	0.0037	0.094

Measure	Trask	Inman	Folk-Ward
Median, phi	-2.08	-2.08	-2.08
Median, in.	0.1661	0.1661	0.1661
Median, mm	4.219	4.219	4.219
Mean, phi	-2.20	-1.13	-1.45
Mean, in.	0.1810	0.0862	0.1072
Mean, mm	4.598	2.188	2.724
Sorting	2.372	2.102	2.154
Skewness	0.780	0.451	0.480
Kurtosis	0.292	0.732	1.198
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	45.89
Coarse Sand	10	23.04
Medium Sand	40	16.39
Fine Sand	200	10.75
Silt/Clay	<200	3.93
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PC170-50.2-50.7
 Depth, ft: 50.2-50.7



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	1.18	1.15	1.15
0.1324	3.364	-1.75	6	3.69	3.58	4.73
0.0787	2.000	-1.00	10	8.77	8.52	13.25
0.0557	1.414	-0.50	14	9.39	9.12	22.37
0.0394	1.000	0.00	18	7.69	7.47	29.83
0.0278	0.707	0.50	25	8.94	8.68	38.52
0.0197	0.500	1.00	35	8.79	8.54	47.05
0.0166	0.420	1.25	40	3.80	3.69	50.74
0.0139	0.354	1.50	45	3.58	3.48	54.22
0.0098	0.250	2.00	60	8.16	7.92	62.14
0.0070	0.177	2.50	80	8.07	7.84	69.98
0.0049	0.125	3.00	120	7.36	7.15	77.13
0.0029	0.074	3.75	200	11.28	10.95	88.08
0.0021	0.053	4.25	270	6.12	5.94	94.03
0.0015	0.037	4.75	400	5.07	4.92	98.95
			PAN	1.08	1.05	100.00
TOTALS				102.97	100.00	100.00

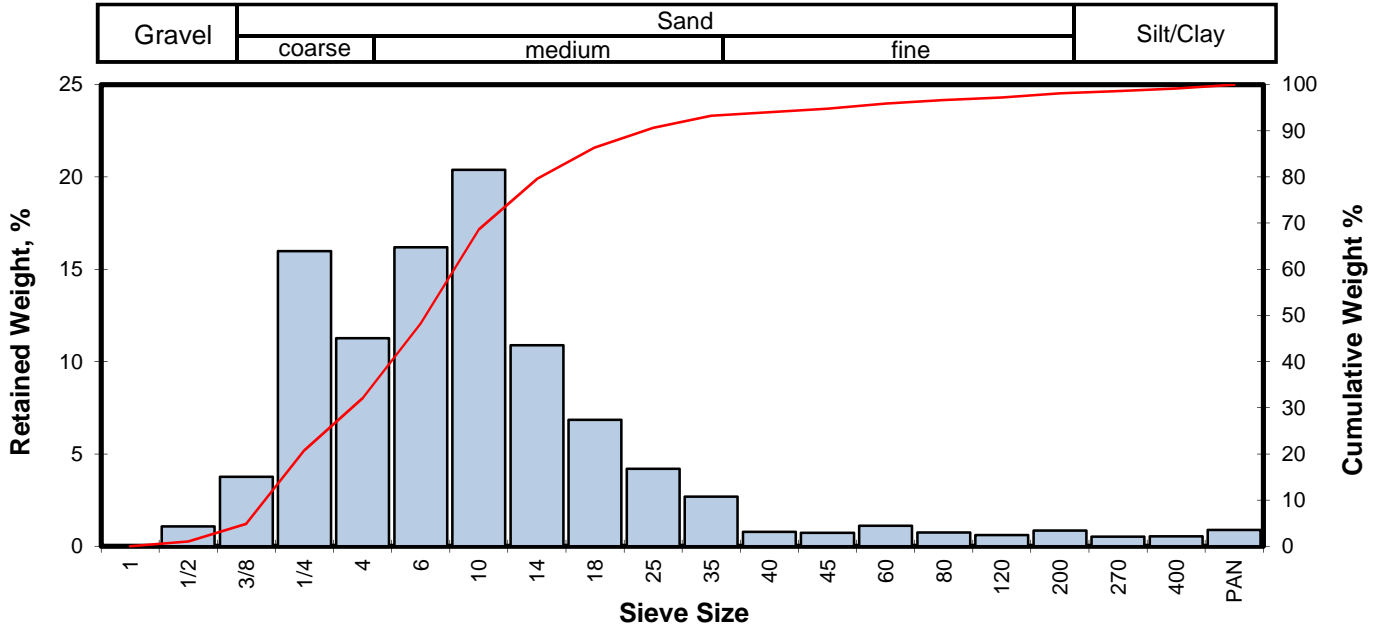
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.73	0.1303	3.309
10	-1.29	0.0960	2.438
16	-0.85	0.0709	1.801
25	-0.32	0.0493	1.251
40	0.59	0.0262	0.666
50	1.20	0.0171	0.435
60	1.86	0.0108	0.275
75	2.85	0.0055	0.139
84	3.47	0.0036	0.090
90	3.91	0.0026	0.066
95	4.35	0.0019	0.049

Measure	Trask	Inman	Folk-Ward
Median, phi	1.20	1.20	1.20
Median, in.	0.0171	0.0171	0.0171
Median, mm	0.435	0.435	0.435
Mean, phi	0.52	1.31	1.27
Mean, in.	0.0274	0.0159	0.0163
Mean, mm	0.695	0.403	0.414
Sorting	3.005	2.160	2.000
Skewness	0.957	0.051	0.044
Kurtosis	0.235	0.406	0.784
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	1.15
Coarse Sand	10	12.10
Medium Sand	40	37.50
Fine Sand	200	37.34
Silt/Clay	<200	11.92
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PC178 27.7-28.0
 Depth, ft: 27.7-28.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	2.83	1.08	1.08
0.3740	9.500	-3.25	3/8	9.89	3.77	4.85
0.2500	6.351	-2.67	1/4	41.93	15.98	20.83
0.1873	4.757	-2.25	4	29.55	11.26	32.10
0.1324	3.364	-1.75	6	42.45	16.18	48.28
0.0787	2.000	-1.00	10	53.48	20.39	68.67
0.0557	1.414	-0.50	14	28.55	10.88	79.55
0.0394	1.000	0.00	18	17.97	6.85	86.40
0.0278	0.707	0.50	25	10.99	4.19	90.59
0.0197	0.500	1.00	35	7.03	2.68	93.27
0.0166	0.420	1.25	40	2.03	0.77	94.04
0.0139	0.354	1.50	45	1.92	0.73	94.77
0.0098	0.250	2.00	60	2.91	1.11	95.88
0.0070	0.177	2.50	80	1.94	0.74	96.62
0.0049	0.125	3.00	120	1.59	0.61	97.23
0.0029	0.074	3.75	200	2.21	0.84	98.07
0.0021	0.053	4.25	270	1.36	0.52	98.59
0.0015	0.037	4.75	400	1.39	0.53	99.12
			PAN	2.31	0.88	100.00
TOTALS				262.33	100.00	100.00

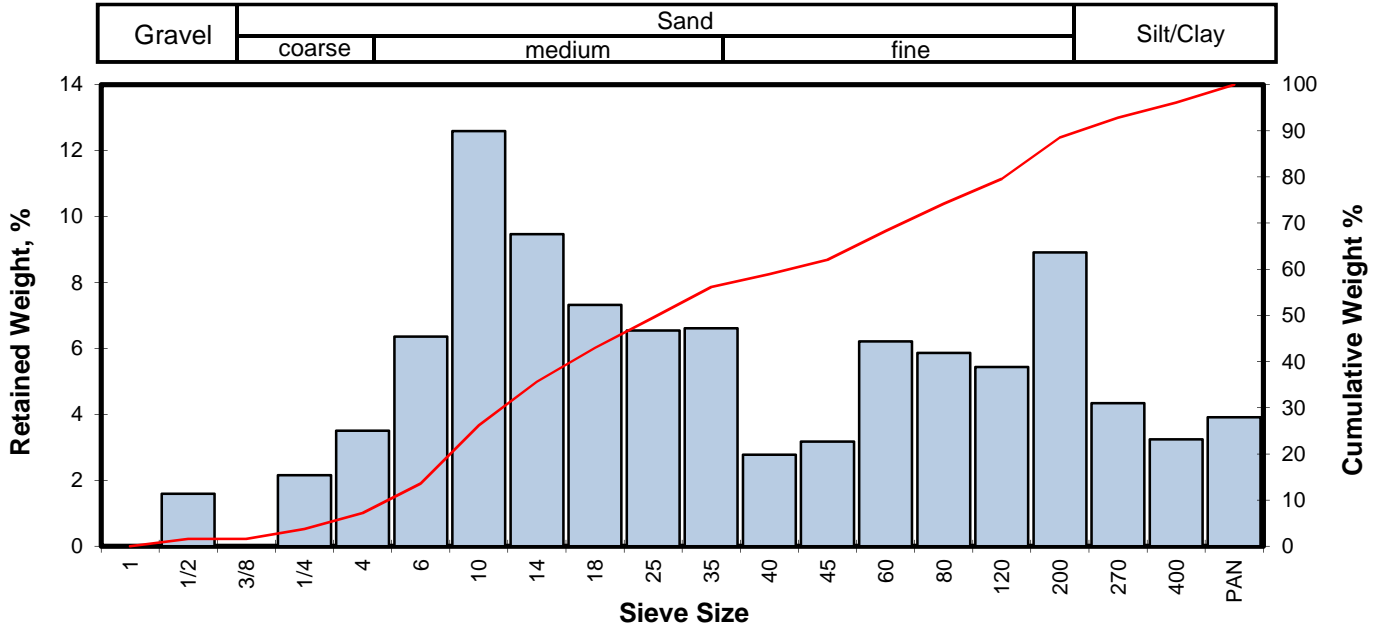
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.24	0.3726	9.464
10	-3.06	0.3285	8.344
16	-2.84	0.2824	7.173
25	-2.51	0.2247	5.707
40	-2.01	0.1581	4.016
50	-1.69	0.1267	3.219
60	-1.32	0.0982	2.495
75	-0.71	0.0644	1.635
84	-0.18	0.0445	1.129
90	0.43	0.0292	0.742
95	1.60	0.0130	0.329

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.69	-1.69	-1.69
Median, in.	0.1267	0.1267	0.1267
Median, mm	3.219	3.219	3.219
Mean, phi	-1.88	-1.51	-1.57
Mean, in.	0.1445	0.1120	0.1167
Mean, mm	3.671	2.846	2.965
Sorting	1.868	1.334	1.401
Skewness	0.949	0.133	0.246
Kurtosis	0.268	0.816	1.101
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	32.10
Coarse Sand	10	36.57
Medium Sand	40	25.38
Fine Sand	200	4.03
Silt/Clay	<200	1.93
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PCDB10-20.0-20.3
 Depth, ft: 20.0-20.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	2.67	1.59	1.59
0.3740	9.500	-3.25	3/8	0.00	0.00	1.59
0.2500	6.351	-2.67	1/4	3.61	2.15	3.74
0.1873	4.757	-2.25	4	5.88	3.51	7.25
0.1324	3.364	-1.75	6	10.66	6.36	13.60
0.0787	2.000	-1.00	10	21.12	12.59	26.20
0.0557	1.414	-0.50	14	15.88	9.47	35.66
0.0394	1.000	0.00	18	12.27	7.31	42.98
0.0278	0.707	0.50	25	10.98	6.55	49.52
0.0197	0.500	1.00	35	11.09	6.61	56.13
0.0166	0.420	1.25	40	4.66	2.78	58.91
0.0139	0.354	1.50	45	5.32	3.17	62.08
0.0098	0.250	2.00	60	10.42	6.21	68.30
0.0070	0.177	2.50	80	9.84	5.87	74.16
0.0049	0.125	3.00	120	9.11	5.43	79.59
0.0029	0.074	3.75	200	14.95	8.91	88.51
0.0021	0.053	4.25	270	7.28	4.34	92.85
0.0015	0.037	4.75	400	5.44	3.24	96.09
			PAN	6.56	3.91	100.00
TOTALS				167.74	100.00	100.00

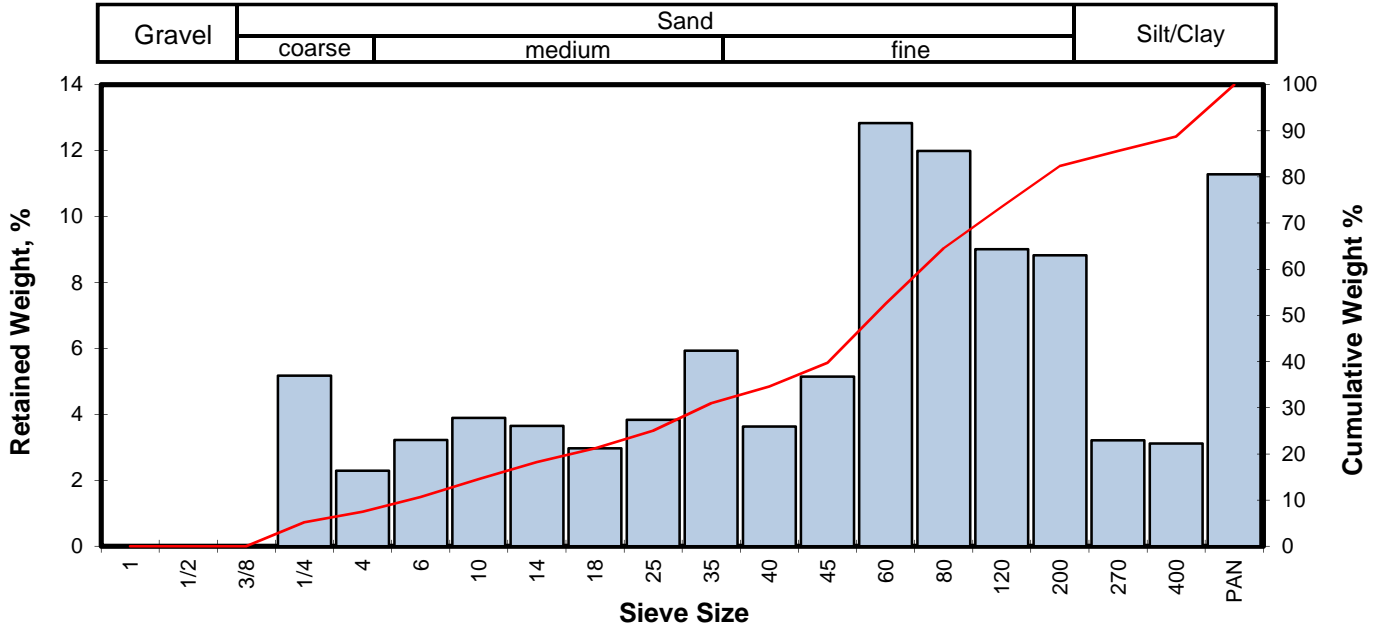
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.52	0.2254	5.726
10	-2.03	0.1612	4.094
16	-1.61	0.1200	3.047
25	-1.07	0.0827	2.101
40	-0.20	0.0453	1.151
50	0.54	0.0272	0.690
60	1.34	0.0156	0.396
75	2.58	0.0066	0.168
84	3.37	0.0038	0.097
90	3.92	0.0026	0.066
95	4.58	0.0016	0.042

Measure	Trask	Inman	Folk-Ward
Median, phi	0.54	0.54	0.54
Median, in.	0.0272	0.0272	0.0272
Median, mm	0.690	0.690	0.690
Mean, phi	-0.18	0.88	0.77
Mean, in.	0.0447	0.0214	0.0231
Mean, mm	1.134	0.543	0.588
Sorting	3.541	2.489	2.320
Skewness	0.860	0.139	0.139
Kurtosis	0.240	0.426	0.798
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	7.25
Coarse Sand	10	18.95
Medium Sand	40	32.72
Fine Sand	200	29.59
Silt/Clay	<200	11.49
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PCDB10-48.7-49.0
 Depth, ft: 48.7-49.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	4.69	5.18	5.18
0.1873	4.757	-2.25	4	2.08	2.30	7.47
0.1324	3.364	-1.75	6	2.92	3.22	10.70
0.0787	2.000	-1.00	10	3.53	3.90	14.59
0.0557	1.414	-0.50	14	3.31	3.65	18.25
0.0394	1.000	0.00	18	2.69	2.97	21.22
0.0278	0.707	0.50	25	3.47	3.83	25.05
0.0197	0.500	1.00	35	5.37	5.93	30.97
0.0166	0.420	1.25	40	3.29	3.63	34.61
0.0139	0.354	1.50	45	4.66	5.14	39.75
0.0098	0.250	2.00	60	11.62	12.83	52.58
0.0070	0.177	2.50	80	10.86	11.99	64.57
0.0049	0.125	3.00	120	8.16	9.01	73.57
0.0029	0.074	3.75	200	7.99	8.82	82.39
0.0021	0.053	4.25	270	2.91	3.21	85.61
0.0015	0.037	4.75	400	2.82	3.11	88.72
			PAN	10.22	11.28	100.00
TOTALS				90.59	100.00	100.00

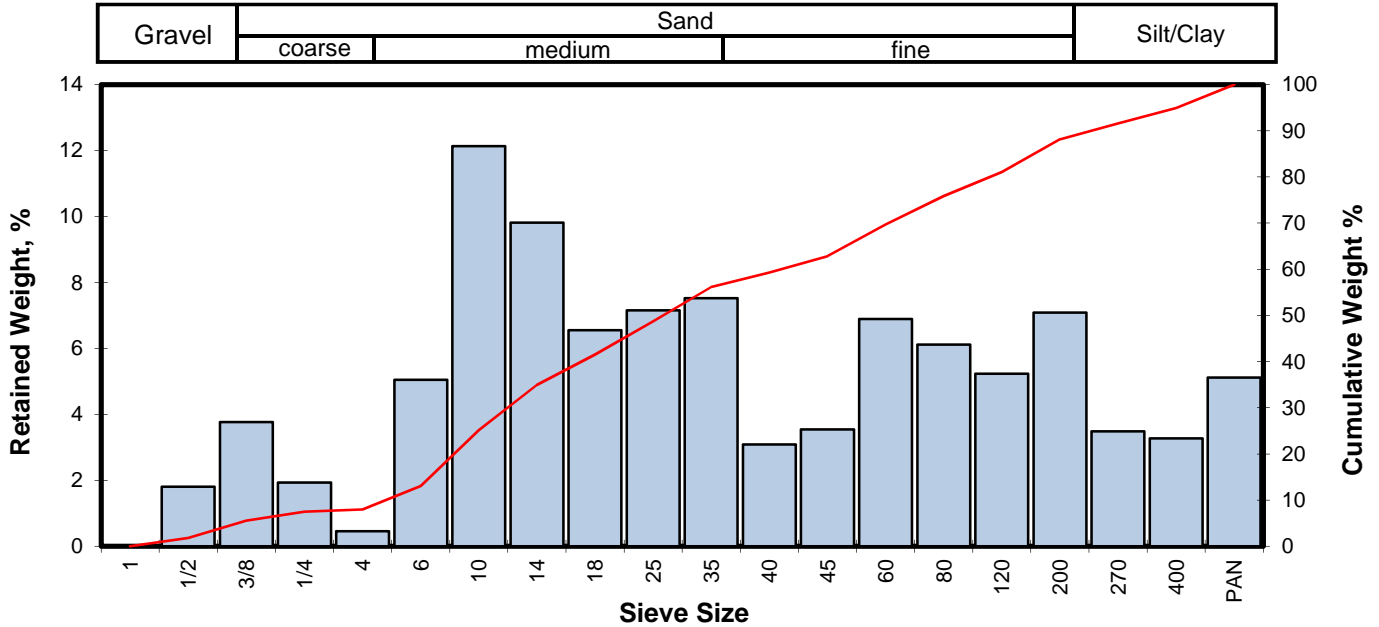
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.69	0.2535	6.439
10	-1.86	0.1427	3.625
16	-0.81	0.0689	1.750
25	0.49	0.0280	0.710
40	1.51	0.0138	0.351
50	1.90	0.0106	0.268
60	2.31	0.0079	0.202
75	3.12	0.0045	0.115
84	4.00	0.0025	0.062
90	4.21	0.0021	0.054
95	2.11	0.0092	0.232

Measure	Trask	Inman	Folk-Ward
Median, phi	1.90	1.90	1.90
Median, in.	0.0106	0.0106	0.0106
Median, mm	0.268	0.268	0.268
Mean, phi	1.28	1.60	1.70
Mean, in.	0.0162	0.0130	0.0121
Mean, mm	0.413	0.331	0.308
Sorting	2.486	2.404	1.928
Skewness	1.066	-0.126	-0.520
Kurtosis	0.083	-0.003	0.747
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	7.47
Coarse Sand	10	7.12
Medium Sand	40	20.01
Fine Sand	200	47.79
Silt/Clay	<200	17.61
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PCDB11-16.7-17.0
 Depth, ft: 16.7-17.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	2.94	1.81	1.81
0.3740	9.500	-3.25	3/8	6.12	3.77	5.58
0.2500	6.351	-2.67	1/4	3.14	1.93	7.51
0.1873	4.757	-2.25	4	0.74	0.46	7.96
0.1324	3.364	-1.75	6	8.20	5.05	13.01
0.0787	2.000	-1.00	10	19.71	12.13	25.14
0.0557	1.414	-0.50	14	15.94	9.81	34.95
0.0394	1.000	0.00	18	10.64	6.55	41.50
0.0278	0.707	0.50	25	11.62	7.15	48.65
0.0197	0.500	1.00	35	12.23	7.53	56.18
0.0166	0.420	1.25	40	5.01	3.08	59.26
0.0139	0.354	1.50	45	5.76	3.55	62.81
0.0098	0.250	2.00	60	11.20	6.89	69.70
0.0070	0.177	2.50	80	9.93	6.11	75.81
0.0049	0.125	3.00	120	8.50	5.23	81.04
0.0029	0.074	3.75	200	11.52	7.09	88.13
0.0021	0.053	4.25	270	5.66	3.48	91.62
0.0015	0.037	4.75	400	5.31	3.27	94.89
			PAN	8.31	5.11	100.00
TOTALS				162.48	100.00	100.00

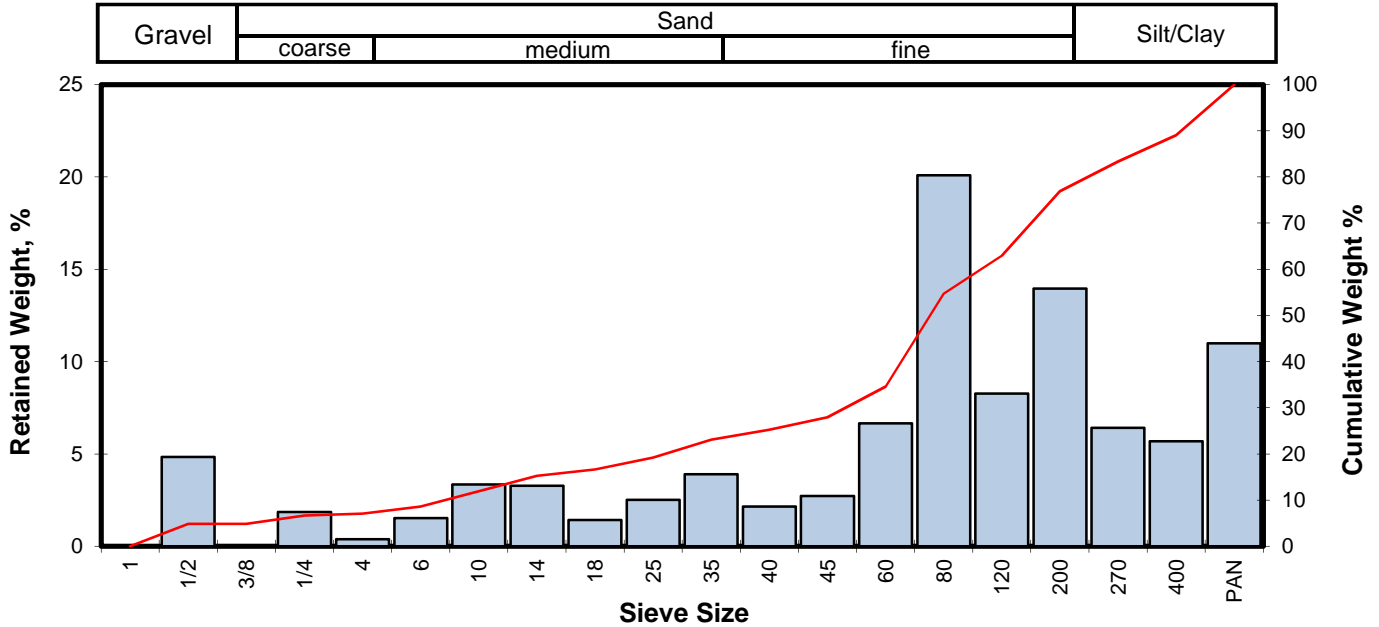
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.31	0.3901	9.908
10	-2.05	0.1628	4.136
16	-1.57	0.1165	2.959
25	-1.01	0.0792	2.012
40	-0.11	0.0426	1.083
50	0.59	0.0262	0.665
60	1.30	0.0160	0.406
75	2.43	0.0073	0.185
84	3.31	0.0040	0.101
90	4.02	0.0024	0.062
95	4.64	0.0016	0.040

Measure	Trask	Inman	Folk-Ward
Median, phi	0.59	0.59	0.59
Median, in.	0.0262	0.0262	0.0262
Median, mm	0.665	0.665	0.665
Mean, phi	-0.14	0.87	0.78
Mean, in.	0.0433	0.0215	0.0229
Mean, mm	1.099	0.546	0.583
Sorting	3.297	2.439	2.424
Skewness	0.918	0.117	0.068
Kurtosis	0.224	0.630	0.947
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	7.96
Coarse Sand	10	17.18
Medium Sand	40	34.12
Fine Sand	200	28.87
Silt/Clay	<200	11.87
Total		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PCDB11-29.0-29.5
 Depth, ft: 29.0-29.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	6.08	4.84	4.84
0.3740	9.500	-3.25	3/8	0.00	0.00	4.84
0.2500	6.351	-2.67	1/4	2.32	1.85	6.69
0.1873	4.757	-2.25	4	0.49	0.39	7.08
0.1324	3.364	-1.75	6	1.92	1.53	8.61
0.0787	2.000	-1.00	10	4.20	3.35	11.96
0.0557	1.414	-0.50	14	4.12	3.28	15.24
0.0394	1.000	0.00	18	1.79	1.43	16.67
0.0278	0.707	0.50	25	3.15	2.51	19.17
0.0197	0.500	1.00	35	4.89	3.90	23.07
0.0166	0.420	1.25	40	2.71	2.16	25.23
0.0139	0.354	1.50	45	3.42	2.72	27.95
0.0098	0.250	2.00	60	8.36	6.66	34.61
0.0070	0.177	2.50	80	25.21	20.08	54.70
0.0049	0.125	3.00	120	10.37	8.26	62.96
0.0029	0.074	3.75	200	17.51	13.95	76.91
0.0021	0.053	4.25	270	8.06	6.42	83.33
0.0015	0.037	4.75	400	7.13	5.68	89.01
			PAN	13.80	10.99	100.00

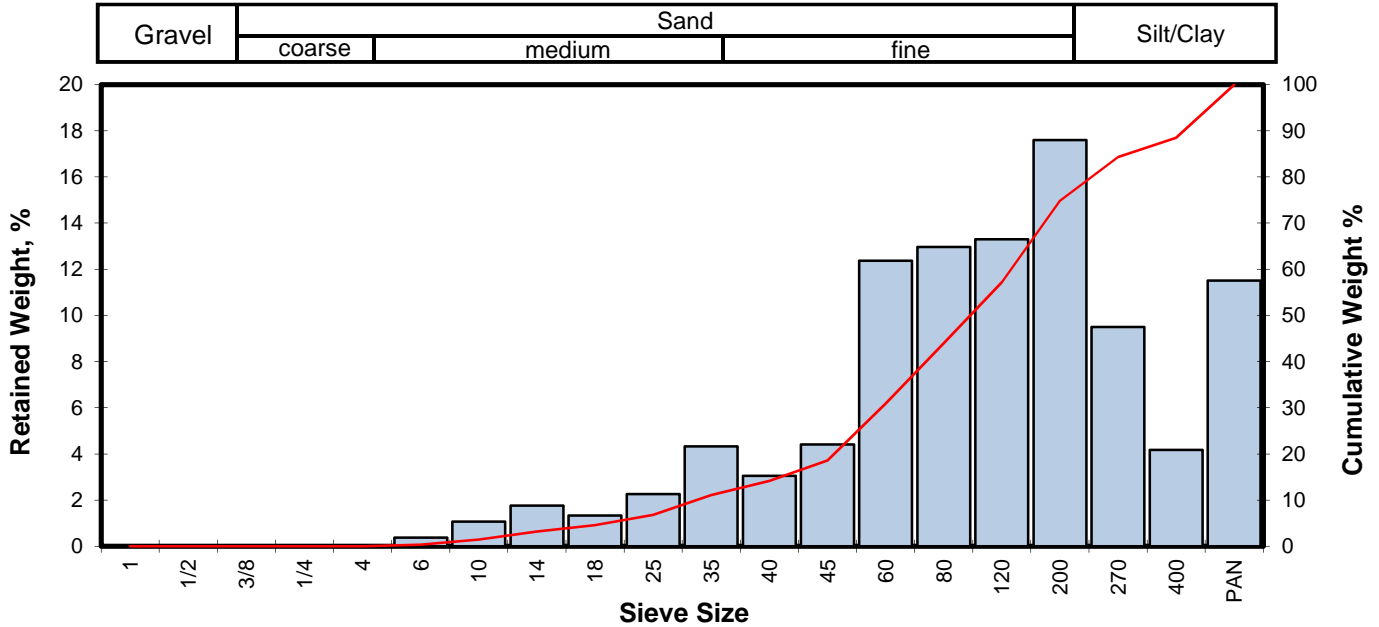
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.20	0.3615	9.182
10	-1.44	0.1067	2.711
16	-0.23	0.0463	1.176
25	1.22	0.0169	0.428
40	2.13	0.0090	0.228
50	2.38	0.0075	0.192
60	2.82	0.0056	0.142
75	3.65	0.0031	0.080
84	4.31	0.0020	0.050
90	4.32	0.0020	0.050
95	2.16	0.0088	0.224

Measure	Trask	Inman	Folk-Ward
Median, phi	2.38	2.38	2.38
Median, in.	0.0075	0.0075	0.0075
Median, mm	0.192	0.192	0.192
Mean, phi	1.98	2.04	2.15
Mean, in.	0.0100	0.0096	0.0089
Mean, mm	0.254	0.244	0.225
Sorting	2.317	2.271	1.948
Skewness	0.964	-0.152	-0.618
Kurtosis	0.065	0.180	0.906
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	7.08
Coarse Sand	10	4.88
Medium Sand	40	13.27
Fine Sand	200	51.68
Silt/Clay	<200	23.09
TOTALS		100

Client: Ramboll Environ
 Project: Nert
 Project No: 2141400C, MO3B

PTS File No: 47354
 Sample ID: PT-PCDB11-58.5-58.8
 Depth, ft: 58.5-58.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.40	0.38	0.38
0.0787	2.000	-1.00	10	1.13	1.07	1.45
0.0557	1.414	-0.50	14	1.85	1.76	3.21
0.0394	1.000	0.00	18	1.41	1.34	4.55
0.0278	0.707	0.50	25	2.38	2.26	6.81
0.0197	0.500	1.00	35	4.55	4.32	11.13
0.0166	0.420	1.25	40	3.21	3.05	14.18
0.0139	0.354	1.50	45	4.65	4.42	18.59
0.0098	0.250	2.00	60	13.02	12.36	30.95
0.0070	0.177	2.50	80	13.66	12.97	43.92
0.0049	0.125	3.00	120	14.01	13.30	57.23
0.0029	0.074	3.75	200	18.53	17.59	74.82
0.0021	0.053	4.25	270	10.00	9.49	84.31
0.0015	0.037	4.75	400	4.40	4.18	88.49
			PAN	12.12	11.51	100.00
TOTALS				105.32	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.10	0.0367	0.933
10	0.87	0.0215	0.547
16	1.35	0.0154	0.391
25	1.76	0.0116	0.295
40	2.35	0.0077	0.196
50	2.73	0.0059	0.151
60	3.12	0.0045	0.115
75	3.76	0.0029	0.074
84	4.23	0.0021	0.053
90	4.13	0.0023	0.057
95	2.06	0.0094	0.239

Measure	Trask	Inman	Folk-Ward
Median, phi	2.73	2.73	2.73
Median, in.	0.0059	0.0059	0.0059
Median, mm	0.151	0.151	0.151
Mean, phi	2.44	2.79	2.77
Mean, in.	0.0073	0.0057	0.0058
Mean, mm	0.185	0.144	0.146
Sorting	2.000	1.440	1.018
Skewness	0.979	0.045	-0.816
Kurtosis	0.226	-0.318	0.402
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	1.45
Medium Sand	40	12.72
Fine Sand	200	60.64
Silt/Clay	<200	25.18
Total		100

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 21-41400C, Phase M03D

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-RI15-54.5-55.0	54.5-55.0	Silt	0.007	0.00	0.00	0.00	4.88	53.52	41.60	95.12
PT-RI15-75.0-75.5	75.0-75.5	Silt	0.005	0.00	0.00	0.00	1.65	50.35	48.00	98.35
PT-RI15-96.0-96.5	96.0-96.5	Silt	0.009	0.00	0.00	0.00	1.67	63.07	35.26	98.33
PT-RI15-116.0-116.5	116.0-116.5	Silt	0.007	0.00	0.00	0.00	0.62	58.31	41.07	99.38
PT-RI15-134.0-134.5	134.0-134.5	Silt	0.006	0.00	0.00	0.00	1.44	54.01	44.54	98.56
PT-M195-46.5-47.0	46.5-47.0	Fine sand	0.078	0.00	0.00	40.83	9.89	35.40	13.88	49.28
PT-M195-60.0-60.5	60.0-60.5	Fine sand	0.079	0.00	0.00	11.72	40.06	38.54	9.68	48.22
PT-M195-67.5-67.8	67.5-67.8	Silt	0.047	0.00	0.00	0.47	33.91	52.16	13.46	65.62
PT-M195-79.5-80.0	79.5-80.0	Silt	0.026	0.00	0.00	0.39	16.54	68.57	14.51	83.08
PT-M195-101.0-101.5	101.0-101.5	Silt	0.019	0.00	0.00	0.00	9.42	70.40	20.19	90.58
PT-M195-146.0-146.5	146.0-146.5	Silt	0.023	0.00	0.00	0.00	12.04	68.96	19.01	87.96
PT-M197-52.5-53.0	52.5-53.0	Silt	0.040	0.00	0.00	3.24	25.21	58.33	13.22	71.55
PT-M197-64.2-64.5	64.2-64.5	Fine sand	0.072	0.00	0.00	17.79	31.33	39.08	11.80	50.88

(1) Based on Mean from Trask

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 21-41400C, Phase M03D

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-M197-82.5-83.0	82.5-83.0	Silt	0.012	0.00	0.00	1.27	11.10	59.62	28.01	87.63
PT-M197-135.0-135.4	135.0-135.4	Silt	0.009	0.00	0.00	0.00	3.94	66.82	29.24	96.06
PT-M197-138.5-139.0	138.5-139.0	Silt	0.009	0.00	0.00	0.00	6.73	56.50	36.77	93.27
PT-M197-145.5-146.0	145.5-146.0	Silt	0.008	0.00	0.00	0.00	5.21	57.41	37.38	94.79
PT-PC167-17.8-18.3	17.8-18.3	Silt	0.018	0.00	0.00	1.65	14.90	59.21	24.24	83.45
PT-PC167-21.3-21.8	21.3-21.8	Silt	0.009	0.00	0.00	0.00	7.22	57.08	35.71	92.78
PT-PC170-37.0-37.5	37.0-37.5	Fine sand	0.089	0.00	0.00	5.35	54.13	35.26	5.26	40.52
PT-PC170-43.5-44.0	43.5-44.0	Silt	0.008	0.00	0.00	0.00	7.43	54.27	38.29	92.57
PT-PC170-47.5-48.0	47.5-48.0	Silt	0.040	0.00	0.00	2.64	30.40	50.05	16.90	66.96
PT-PC170-49.0-49.5	49.0-49.5	Silt	0.051	0.00	0.00	0.86	33.44	50.68	15.02	65.70
PT-PC178-37.0-37.5	37.0-37.5	Silt	0.003	0.00	0.00	0.00	6.42	34.64	58.94	93.58
PT-PC178-45.0-45.5	45.0-45.5	Silt	0.04153357	0.00	0.00	3.93	31.65	48.42	15.99	64.42
PT-PC178-55.0-55.5	55.0-55.5	Fine sand	0.15891459	0.00	0.00	20.53	46.19	23.56	9.71	33.28

(1) Based on Mean from Trask

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: NERT
PROJECT NO: 21-41400C, Phase M03D

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-PC178-61.0-61.5	61.0-61.5	Fine sand	0.06563912	0.00	0.00	8.09	39.45	39.84	12.62	52.46
PT-PC178-72.5-73.0	72.5-73.0	Silt	0.03067354	0.00	0.00	0.82	26.31	57.25	15.62	72.88
PT-PC195-57.0-57.5	57.0-57.5	Silt	0.0401799	0.00	0.00	5.48	29.64	48.36	16.52	64.88
PT-PC195-68.5-69.0	68.5-69.0	Silt	0.01016203	0.00	0.00	0.00	15.49	47.66	36.86	84.51
PT-PCDB4-33.5-34.5	33.5-34.5	Silt	0.00358507	0.00	0.00	0.00	6.24	39.67	54.09	93.76
PT-PCDB4-43.5-44.5	43.5-44.5	Silt	0.00295664	0.00	0.00	0.00	14.68	29.52	55.80	85.32
PT-PCDB4-57.0-58.0	57.0-58.0	Silt	0.01300221	0.00	0.00	0.00	7.53	64.37	28.10	92.47
PT-PCDB4-68.0-69.0	68.0-69.0	Silt	0.01241061	0.00	0.00	0.00	8.50	61.80	29.70	91.50
PT-PCDB4-71.0-72.0	71.0-72.0	Silt	0.00436833	0.00	0.00	0.00	3.84	44.49	51.67	96.16
PT-PCDB7-34.5-35.5	34.5-35.5	Silt	0.01896768	0.00	0.00	0.39	19.86	54.56	25.19	79.75
PT-PCDB7-43.0-44.0	43.0-44.0	Silt	0.00382319	0.00	0.00	0.00	9.06	38.08	52.86	90.94
PT-PCDB7-48.0-49.0	48.0-49.0	Silt	0.00729372	0.00	0.00	1.29	19.03	35.00	44.68	79.69
PT-PCDB7-54.5-55.5	54.5-55.5	Silt	0.01675329	0.00	0.00	4.71	20.12	50.12	25.05	75.16

(1) Based on Mean from Trask

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

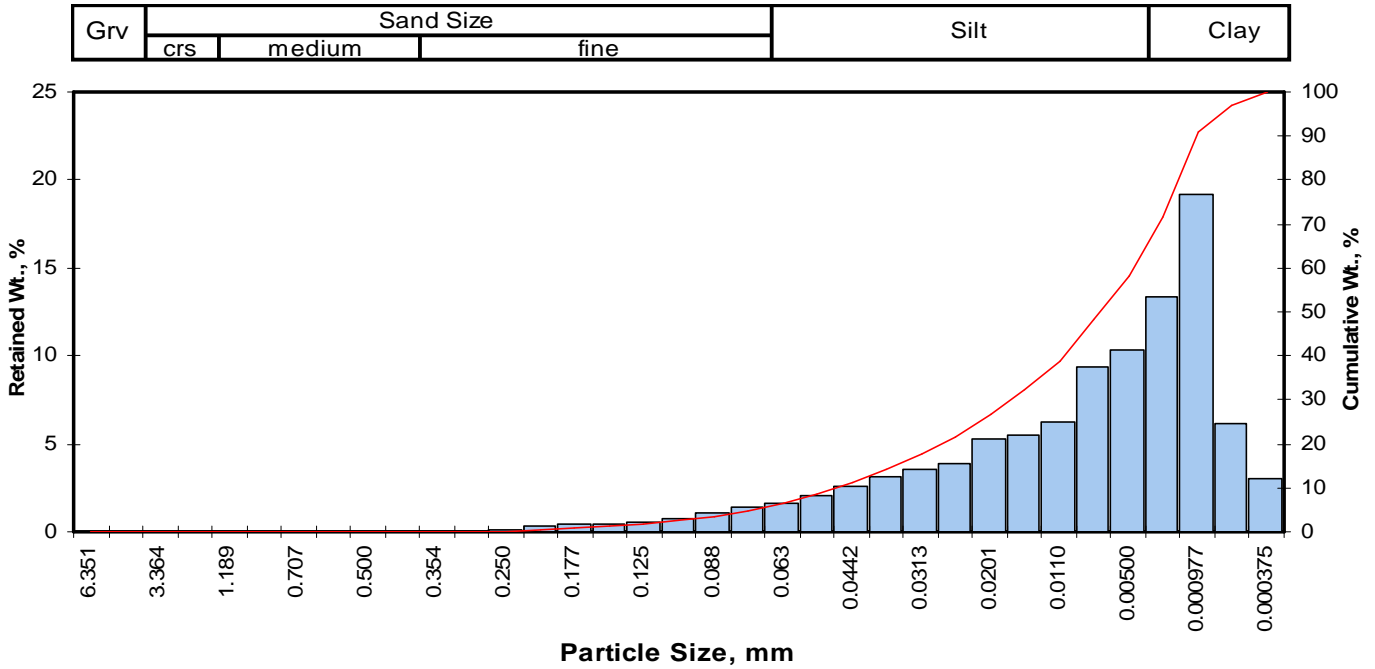
PROJECT NAME: NERT
PROJECT NO: 21-41400C, Phase M03D

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
PT-PCDB10-33.3-33.8	33.3-33.8	Fine sand	0.08370146	0.00	0.00	7.95	44.23	34.84	12.98	47.82
PT-PCDB10-40.4-40.9	40.4-40.9	Silt	0.0112373	0.00	0.00	0.32	8.12	62.42	29.14	91.56
PT-PCDB10-58.2-58.7	58.2-58.7	Silt	0.00771384	0.00	0.00	0.00	10.41	50.33	39.26	89.59
PT-PCDB10-68.5-69.0	68.5-69.0	Silt	0.01182567	0.00	0.00	0.31	12.42	55.31	31.97	87.27
PT-PCDB10-77.8-78.3	77.8-78.3	Silt	0.00828179	0.00	0.00	1.33	20.78	38.49	39.41	77.90
PT-PCDB10-85.5-86.0	85.5-86.0	Silt	0.02796808	0.00	0.00	0.56	16.99	66.06	16.40	82.45
PT-PCDB11-40.8-41.3	40.8-41.3	Silt	0.01055903	0.00	0.00	0.67	26.12	36.40	36.81	73.22
PT-PCDB11-50.0-50.5	50.0-50.5	Silt	0.02488176	0.00	0.00	0.61	23.99	53.44	21.96	75.41
PT-PCDB11-68.3-68.8	68.3-68.8	Silt	0.00498976	0.00	0.00	0.00	1.45	48.53	50.02	98.55
PT-PCDB11-78.7-79.2	78.7-79.2	Fine sand	0.0540509	0.00	0.00	1.94	39.66	45.45	12.95	58.40
PT-PCDB11-86.2-86.7	86.2-86.7	Fine sand	0.05960705	0.00	0.00	1.93	41.00	47.65	9.42	57.07

(1) Based on Mean from Trask

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-RI15-54.5-55.0
Depth, ft: 54.5-55.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.10	0.10	0.10
0.0083	0.210	2.25	70	0.29	0.29	0.39
0.0070	0.177	2.50	80	0.39	0.39	0.78
0.0059	0.149	2.75	100	0.38	0.38	1.16
0.0049	0.125	3.00	120	0.49	0.49	1.65
0.0041	0.105	3.25	140	0.78	0.78	2.44
0.0035	0.088	3.50	170	1.09	1.09	3.53
0.0029	0.074	3.75	200	1.35	1.35	4.88
0.0025	0.063	4.00	230	1.64	1.64	6.53
0.0021	0.053	4.25	270	2.04	2.05	8.57
0.00174	0.0442	4.50	325	2.54	2.55	11.12
0.00146	0.0372	4.75	400	3.10	3.11	14.23
0.00123	0.0313	5.00	450	3.55	3.56	17.79
0.000986	0.0250	5.32	500	3.87	3.88	21.67
0.000790	0.0201	5.64	635	5.22	5.24	26.91
0.000615	0.0156	6.00		5.46	5.48	32.38
0.000435	0.0110	6.50		6.25	6.27	38.65
0.000308	0.00781	7.00		9.39	9.42	48.07
0.000197	0.00500	7.65		10.30	10.33	58.40
0.000077	0.00195	9.00		13.30	13.34	71.74
0.000038	0.000977	10.00		19.10	19.16	90.89
0.000019	0.000488	11.00		6.08	6.10	96.99
0.000015	0.000375	11.38		3.00	3.01	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.77	0.0029	0.073
10	4.39	0.0019	0.048
16	4.87	0.0013	0.034
25	5.52	0.0009	0.022
40	6.57	0.0004	0.011
50	7.12	0.0003	0.007
60	7.81	0.0002	0.004
75	9.17	0.0001	0.002
84	9.64	0.0000	0.001
90	9.95	0.0000	0.001
95	10.67	0.0000	0.001

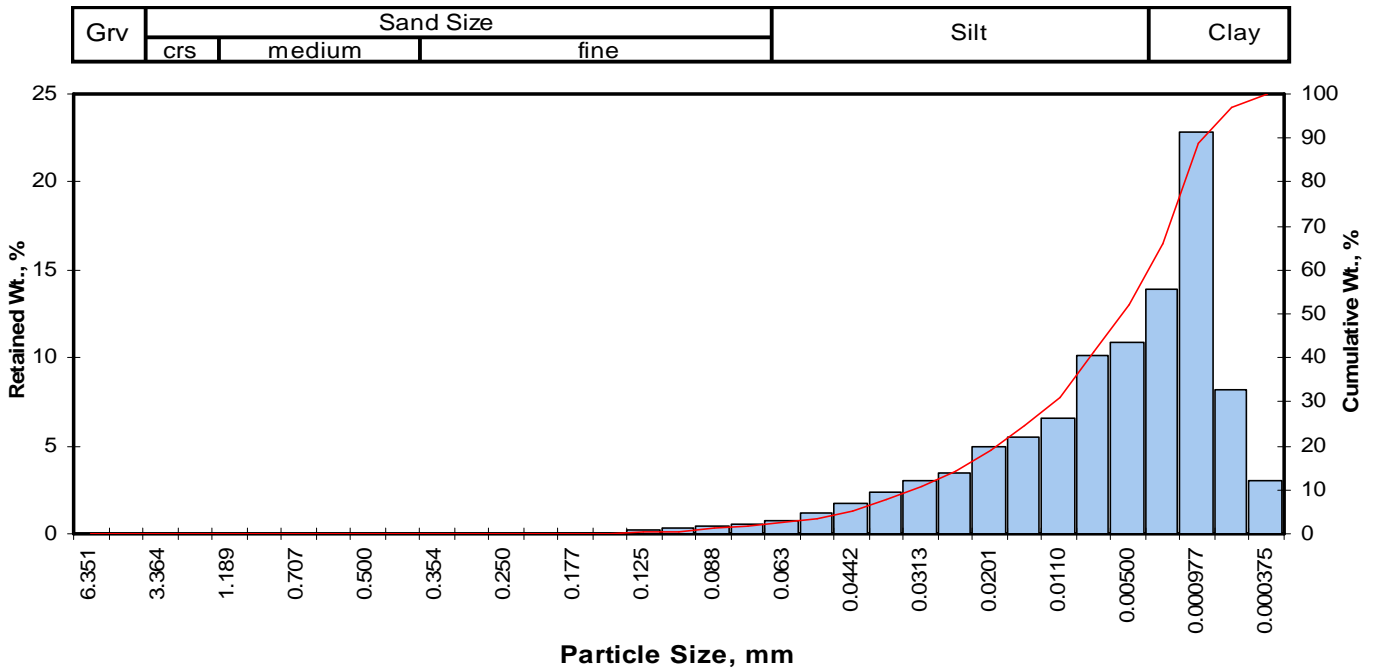
Measure	Trask	Inman	Folk-Ward
Median, phi	7.12	7.12	7.12
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.007	0.007	0.007
Mean, phi	6.41	7.26	7.21
Mean, in.	0.0005	0.0003	0.0003
Mean, mm	0.012	0.007	0.007
Sorting	3.539	2.383	2.238
Skewness	0.855	0.057	0.043
Kurtosis	0.214	0.449	0.776

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	4.88
Silt	>0.005 mm	53.52
Clay	<0.005 mm	41.60
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-RI15-75.0-75.5
Depth, ft: 75.0-75.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.04	0.04	0.04
0.0049	0.125	3.00	120	0.21	0.21	0.25
0.0041	0.105	3.25	140	0.37	0.37	0.62
0.0035	0.088	3.50	170	0.46	0.46	1.08
0.0029	0.074	3.75	200	0.56	0.56	1.65
0.0025	0.063	4.00	230	0.78	0.78	2.43
0.0021	0.053	4.25	270	1.14	1.14	3.57
0.00174	0.0442	4.50	325	1.67	1.67	5.25
0.00146	0.0372	4.75	400	2.36	2.37	7.61
0.00123	0.0313	5.00	450	2.99	3.00	10.61
0.000986	0.0250	5.32	500	3.46	3.47	14.08
0.000790	0.0201	5.64	635	4.89	4.90	18.99
0.000615	0.0156	6.00		5.43	5.45	24.43
0.000435	0.0110	6.50		6.58	6.60	31.03
0.000308	0.00781	7.00		10.10	10.13	41.16
0.000197	0.00500	7.65		10.80	10.83	52.00
0.000077	0.00195	9.00		13.90	13.94	65.94
0.000038	0.000977	10.00		22.80	22.87	88.81
0.000019	0.000488	11.00		8.15	8.17	96.98
0.000015	0.000375	11.38		3.01	3.02	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.46	0.0018	0.045
10	4.95	0.0013	0.032
16	5.45	0.0009	0.023
25	6.04	0.0006	0.015
40	6.94	0.0003	0.008
50	7.53	0.0002	0.005
60	8.42	0.0001	0.003
75	9.40	0.0001	0.001
84	9.79	0.0000	0.001
90	10.15	0.0000	0.001
95	10.76	0.0000	0.001

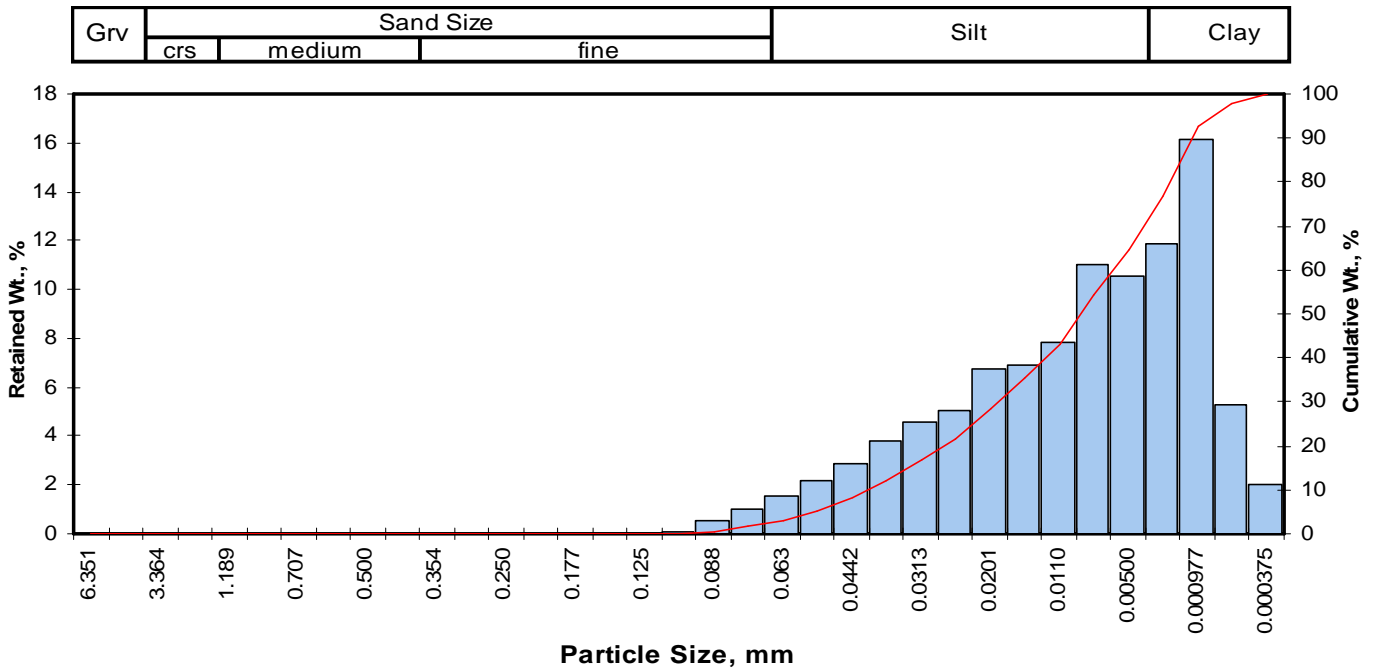
Measure	Trask	Inman	Folk-Ward
Median, phi	7.53	7.53	7.53
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.005	0.005	0.005
Mean, phi	6.91	7.62	7.59
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.008	0.005	0.005
Sorting	3.197	2.172	2.040
Skewness	0.875	0.042	0.034
Kurtosis	0.217	0.449	0.769

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	1.65
Silt	>0.005 mm	50.35
Clay	<0.005 mm	48.00
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-RI15-96.0-96.5
Depth, ft: 96.0-96.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.00	0.00	0.00
0.0041	0.105	3.25	140	0.11	0.11	0.11
0.0035	0.088	3.50	170	0.51	0.51	0.63
0.0029	0.074	3.75	200	1.04	1.04	1.67
0.0025	0.063	4.00	230	1.55	1.55	3.22
0.0021	0.053	4.25	270	2.13	2.14	5.36
0.00174	0.0442	4.50	325	2.89	2.90	8.26
0.00146	0.0372	4.75	400	3.81	3.82	12.08
0.00123	0.0313	5.00	450	4.58	4.59	16.67
0.000986	0.0250	5.32	500	5.06	5.07	21.75
0.000790	0.0201	5.64	635	6.72	6.74	28.49
0.000615	0.0156	6.00		6.87	6.89	35.38
0.000435	0.0110	6.50		7.78	7.80	43.18
0.000308	0.00781	7.00		11.00	11.03	54.21
0.000197	0.00500	7.65		10.50	10.53	64.74
0.000077	0.00195	9.00		11.80	11.83	76.57
0.000038	0.000977	10.00		16.10	16.15	92.72
0.000019	0.000488	11.00		5.24	5.26	97.97
0.000015	0.000375	11.38		2.02	2.03	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.21	0.0021	0.054
10	4.61	0.0016	0.041
16	4.96	0.0013	0.032
25	5.47	0.0009	0.022
40	6.30	0.0005	0.013
50	6.81	0.0004	0.009
60	7.35	0.0002	0.006
75	8.82	0.0001	0.002
84	9.46	0.0001	0.001
90	9.83	0.0000	0.001
95	10.43	0.0000	0.001

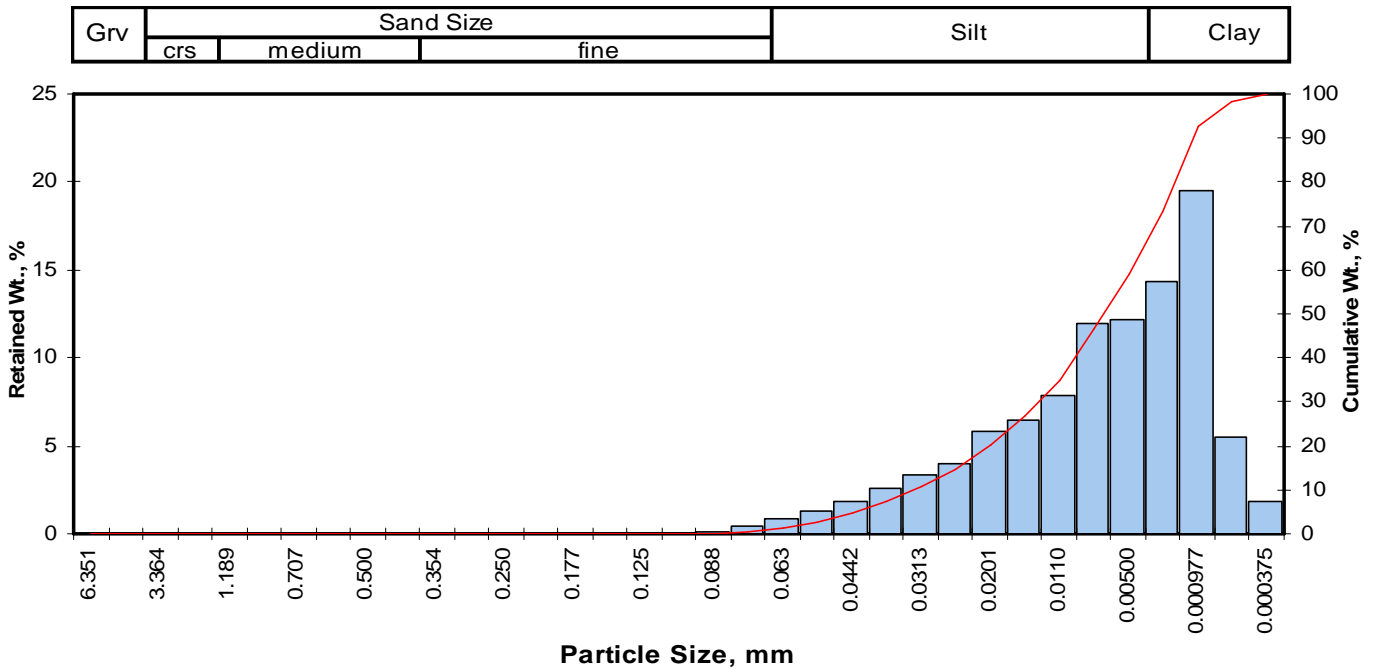
Measure	Trask	Inman	Folk-Ward
Median, phi	6.81	6.81	6.81
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.009	0.009	0.009
Mean, phi	6.34	7.21	7.08
Mean, in.	0.0005	0.0003	0.0003
Mean, mm	0.012	0.007	0.007
Sorting	3.188	2.248	2.067
Skewness	0.791	0.179	0.172
Kurtosis	0.255	0.385	0.763

Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	1.67
Silt	>0.005 mm	63.07
Clay	<0.005 mm	35.26
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-RI15-116.0-116.5
 Depth, ft: 116.0-116.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.00	0.00	0.00
0.0041	0.105	3.25	140	0.02	0.02	0.02
0.0035	0.088	3.50	170	0.15	0.15	0.17
0.0029	0.074	3.75	200	0.45	0.45	0.62
0.0025	0.063	4.00	230	0.86	0.86	1.48
0.0021	0.053	4.25	270	1.32	1.32	2.80
0.00174	0.0442	4.50	325	1.86	1.86	4.66
0.00146	0.0372	4.75	400	2.59	2.59	7.25
0.00123	0.0313	5.00	450	3.34	3.34	10.59
0.000986	0.0250	5.32	500	3.98	3.98	14.57
0.000790	0.0201	5.64	635	5.77	5.77	20.34
0.000615	0.0156	6.00		6.48	6.48	26.83
0.000435	0.0110	6.50		7.89	7.89	34.72
0.000308	0.00781	7.00		12.00	12.00	46.72
0.000197	0.00500	7.65		12.20	12.20	58.93
0.000077	0.00195	9.00		14.30	14.30	73.23
0.000038	0.000977	10.00		19.50	19.51	92.74
0.000019	0.000488	11.00		5.48	5.48	98.22
0.000015	0.000375	11.38		1.78	1.78	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.53	0.0017	0.043
10	4.96	0.0013	0.032
16	5.40	0.0009	0.024
25	5.90	0.0007	0.017
40	6.72	0.0004	0.009
50	7.17	0.0003	0.007
60	7.75	0.0002	0.005
75	9.09	0.0001	0.002
84	9.55	0.0001	0.001
90	9.86	0.0000	0.001
95	10.41	0.0000	0.001

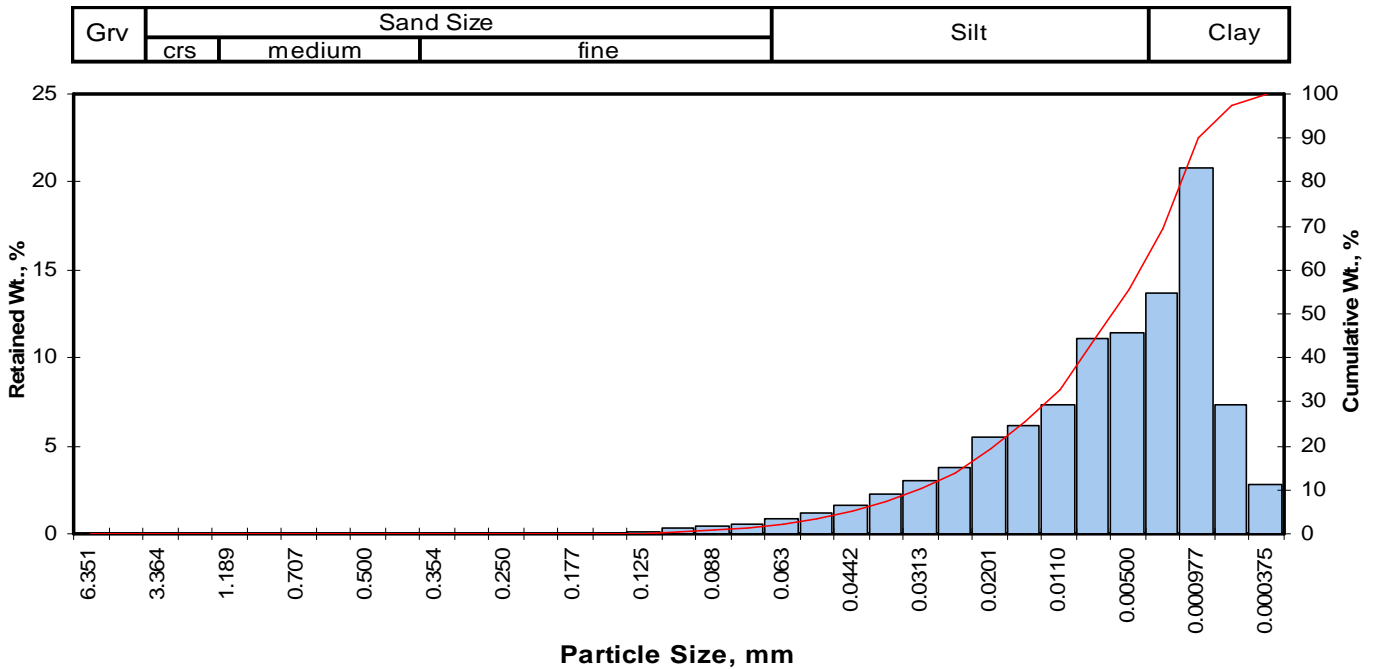
Measure	Trask	Inman	Folk-Ward
Median, phi	7.17	7.17	7.17
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.007	0.007	0.007
Mean, phi	6.75	7.48	7.37
Mean, in.	0.0004	0.0002	0.0002
Mean, mm	0.009	0.006	0.006
Sorting	3.023	2.076	1.929
Skewness	0.800	0.146	0.124
Kurtosis	0.240	0.416	0.755

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	0.62
Silt	>0.005 mm	58.31
Clay	<0.005 mm	41.07
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-RI15-134.0-134.5
Depth, ft: 134.0-134.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.04	0.04	0.04
0.0049	0.125	3.00	120	0.15	0.15	0.19
0.0041	0.105	3.25	140	0.28	0.28	0.47
0.0035	0.088	3.50	170	0.40	0.40	0.87
0.0029	0.074	3.75	200	0.57	0.57	1.44
0.0025	0.063	4.00	230	0.81	0.81	2.25
0.0021	0.053	4.25	270	1.15	1.15	3.41
0.00174	0.0442	4.50	325	1.59	1.59	5.00
0.00146	0.0372	4.75	400	2.25	2.25	7.25
0.00123	0.0313	5.00	450	3.01	3.02	10.27
0.000986	0.0250	5.32	500	3.71	3.72	13.99
0.000790	0.0201	5.64	635	5.46	5.47	19.46
0.000615	0.0156	6.00		6.08	6.09	25.55
0.000435	0.0110	6.50		7.34	7.36	32.91
0.000308	0.00781	7.00		11.10	11.12	44.03
0.000197	0.00500	7.65		11.40	11.42	55.46
0.000077	0.00195	9.00		13.70	13.73	69.19
0.000038	0.000977	10.00		20.70	20.74	89.93
0.000019	0.000488	11.00		7.30	7.32	97.24
0.000015	0.000375	11.38		2.75	2.76	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.50	0.0017	0.044
10	4.98	0.0012	0.032
16	5.44	0.0009	0.023
25	5.97	0.0006	0.016
40	6.82	0.0003	0.009
50	7.34	0.0002	0.006
60	8.09	0.0001	0.004
75	9.28	0.0001	0.002
84	9.71	0.0000	0.001
90	10.01	0.0000	0.001
95	10.69	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	7.34	7.34	7.34
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.006	0.006	0.006
Mean, phi	6.83	7.58	7.50
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.009	0.005	0.006
Sorting	3.153	2.138	2.008
Skewness	0.820	0.112	0.098
Kurtosis	0.234	0.448	0.766

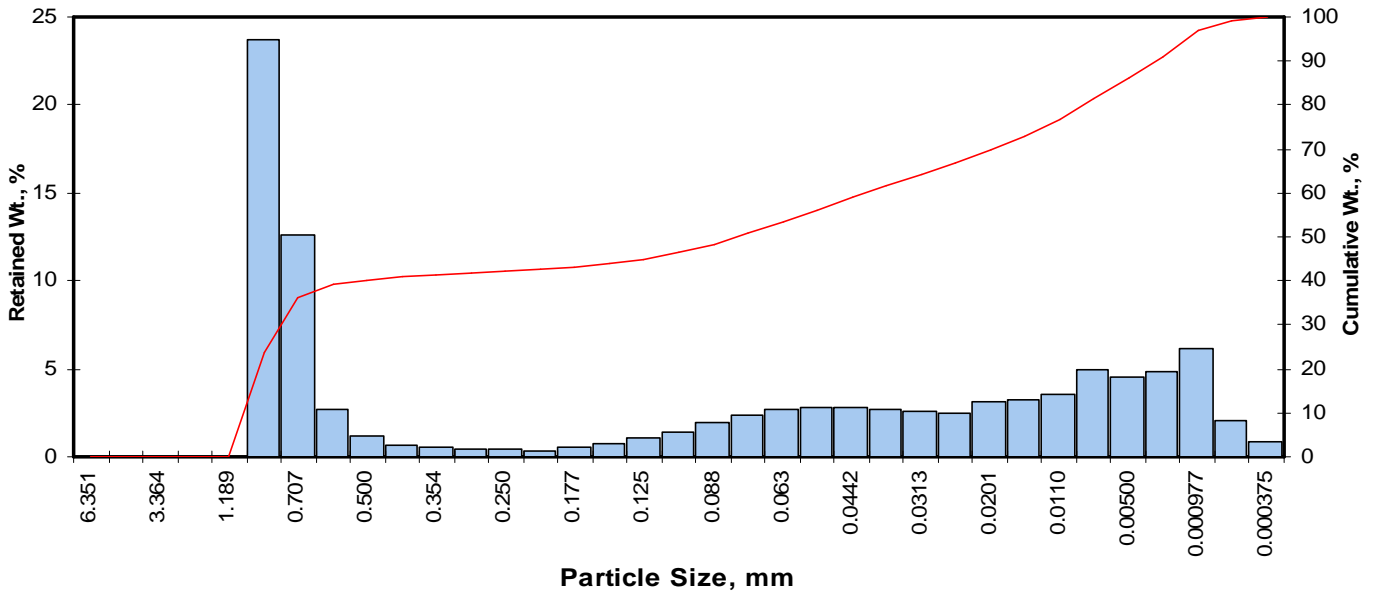
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	1.44
Silt	>0.005 mm	54.01
Clay	<0.005 mm	44.54
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-M195-46.5-47.0
 Depth, ft: 46.5-47.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	23.70	23.72	23.72
0.0278	0.707	0.50	25	12.60	12.61	36.33
0.0234	0.595	0.75	30	2.74	2.74	39.07
0.0197	0.500	1.00	35	1.14	1.14	40.21
0.0166	0.420	1.25	40	0.62	0.62	40.83
0.0139	0.354	1.50	45	0.56	0.56	41.39
0.0117	0.297	1.75	50	0.40	0.40	41.79
0.0098	0.250	2.00	60	0.42	0.42	42.21
0.0083	0.210	2.25	70	0.35	0.35	42.56
0.0070	0.177	2.50	80	0.53	0.53	43.09
0.0059	0.149	2.75	100	0.79	0.79	43.88
0.0049	0.125	3.00	120	1.09	1.09	44.97
0.0041	0.105	3.25	140	1.45	1.45	46.42
0.0035	0.088	3.50	170	1.91	1.91	48.33
0.0029	0.074	3.75	200	2.38	2.38	50.72
0.0025	0.063	4.00	230	2.70	2.70	53.42
0.0021	0.053	4.25	270	2.81	2.81	56.23
0.00174	0.0442	4.50	325	2.75	2.75	58.98
0.00146	0.0372	4.75	400	2.65	2.65	61.63
0.00123	0.0313	5.00	450	2.56	2.56	64.19
0.000986	0.0250	5.32	500	2.51	2.51	66.71
0.000790	0.0201	5.64	635	3.16	3.16	69.87
0.000615	0.0156	6.00		3.18	3.18	73.05
0.000435	0.0110	6.50		3.58	3.58	76.63
0.000308	0.00781	7.00		4.95	4.95	81.59
0.000197	0.00500	7.65		4.53	4.53	86.12
0.000077	0.00195	9.00		4.83	4.83	90.95
0.000038	0.000977	10.00		6.12	6.12	97.08
0.000019	0.000488	11.00		2.01	2.01	99.09
0.000015	0.000375	11.38		0.91	0.91	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.14	0.0435	1.105
10	-0.04	0.0405	1.028
16	0.09	0.0371	0.941
25	0.28	0.0325	0.826
40	0.95	0.0203	0.516
50	3.67	0.0031	0.078
60	4.60	0.0016	0.041
75	6.27	0.0005	0.013
84	7.34	0.0002	0.006
90	8.73	0.0001	0.002
95	9.66	0.0000	0.001

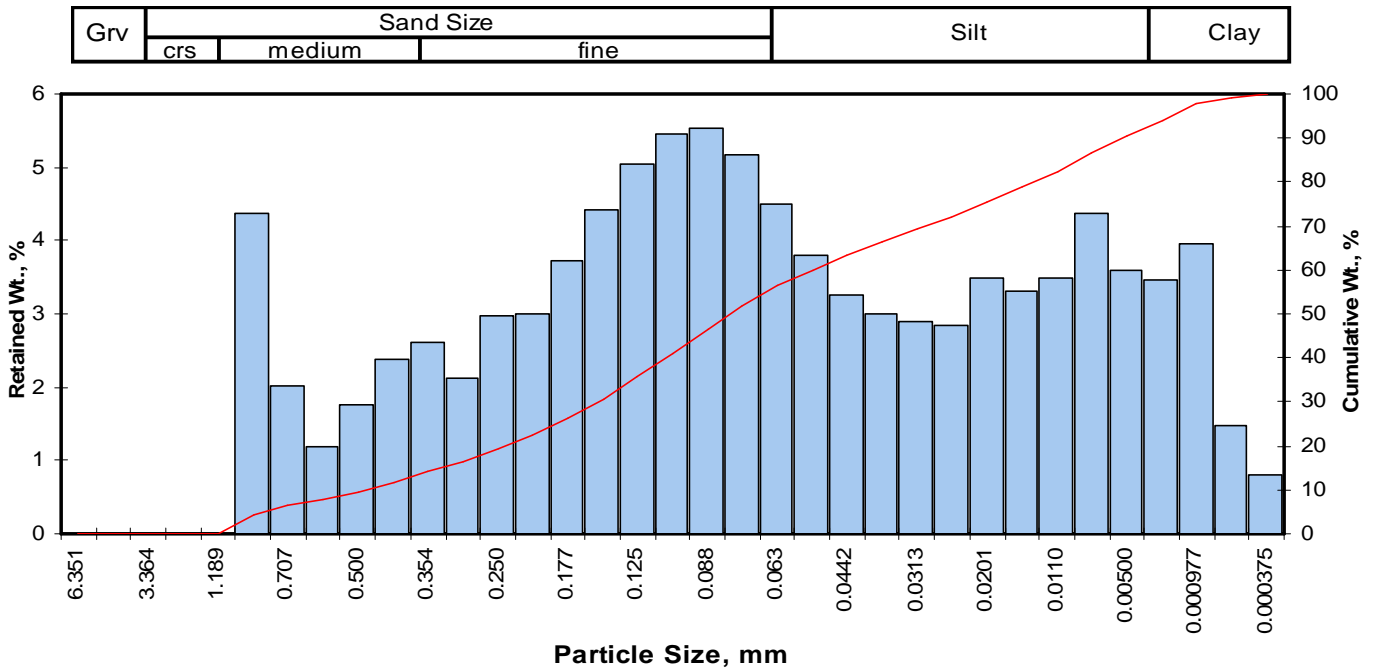
Measure	Trask	Inman	Folk-Ward
Median, phi	3.67	3.67	3.67
Median, in.	0.0031	0.0031	0.0031
Median, mm	0.078	0.078	0.078
Mean, phi	1.25	3.72	3.70
Mean, in.	0.0165	0.0030	0.0030
Mean, mm	0.420	0.076	0.077
Sorting	7.990	3.628	3.300
Skewness	1.321	0.011	0.116
Kurtosis	0.397	0.351	0.670

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	40.83
Fine Sand	200	9.89
Silt	>0.005 mm	35.40
Clay	<0.005 mm	13.88
Total	Total	100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-M195-60.0-60.5
 Depth, ft: 60.0-60.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	4.36	4.36	4.36
0.0278	0.707	0.50	25	2.02	2.02	6.39
0.0234	0.595	0.75	30	1.19	1.19	7.58
0.0197	0.500	1.00	35	1.75	1.75	9.33
0.0166	0.420	1.25	40	2.39	2.39	11.72
0.0139	0.354	1.50	45	2.60	2.60	14.32
0.0117	0.297	1.75	50	2.11	2.11	16.43
0.0098	0.250	2.00	60	2.97	2.97	19.41
0.0083	0.210	2.25	70	3.00	3.00	22.41
0.0070	0.177	2.50	80	3.72	3.72	26.13
0.0059	0.149	2.75	100	4.42	4.42	30.56
0.0049	0.125	3.00	120	5.04	5.04	35.60
0.0041	0.105	3.25	140	5.46	5.46	41.07
0.0035	0.088	3.50	170	5.53	5.53	46.60
0.0029	0.074	3.75	200	5.17	5.17	51.78
0.0025	0.063	4.00	230	4.50	4.50	56.28
0.0021	0.053	4.25	270	3.79	3.79	60.07
0.00174	0.0442	4.50	325	3.26	3.26	63.34
0.00146	0.0372	4.75	400	3.00	3.00	66.34
0.00123	0.0313	5.00	450	2.89	2.89	69.23
0.000986	0.0250	5.32	500	2.83	2.83	72.06
0.000790	0.0201	5.64	635	3.48	3.48	75.55
0.000615	0.0156	6.00		3.31	3.31	78.86
0.000435	0.0110	6.50		3.48	3.48	82.34
0.000308	0.00781	7.00		4.37	4.37	86.72
0.000197	0.00500	7.65		3.60	3.60	90.32
0.000077	0.00195	9.00		3.45	3.45	93.77
0.000038	0.000977	10.00		3.96	3.96	97.74
0.000019	0.000488	11.00		1.47	1.47	99.21
0.000015	0.000375	11.38		0.79	0.79	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.33	0.0313	0.796
10	1.07	0.0188	0.476
16	1.70	0.0121	0.308
25	2.42	0.0073	0.186
40	3.20	0.0043	0.109
50	3.66	0.0031	0.079
60	4.25	0.0021	0.053
75	5.59	0.0008	0.021
84	6.69	0.0004	0.010
90	7.59	0.0002	0.005
95	9.31	0.0001	0.002

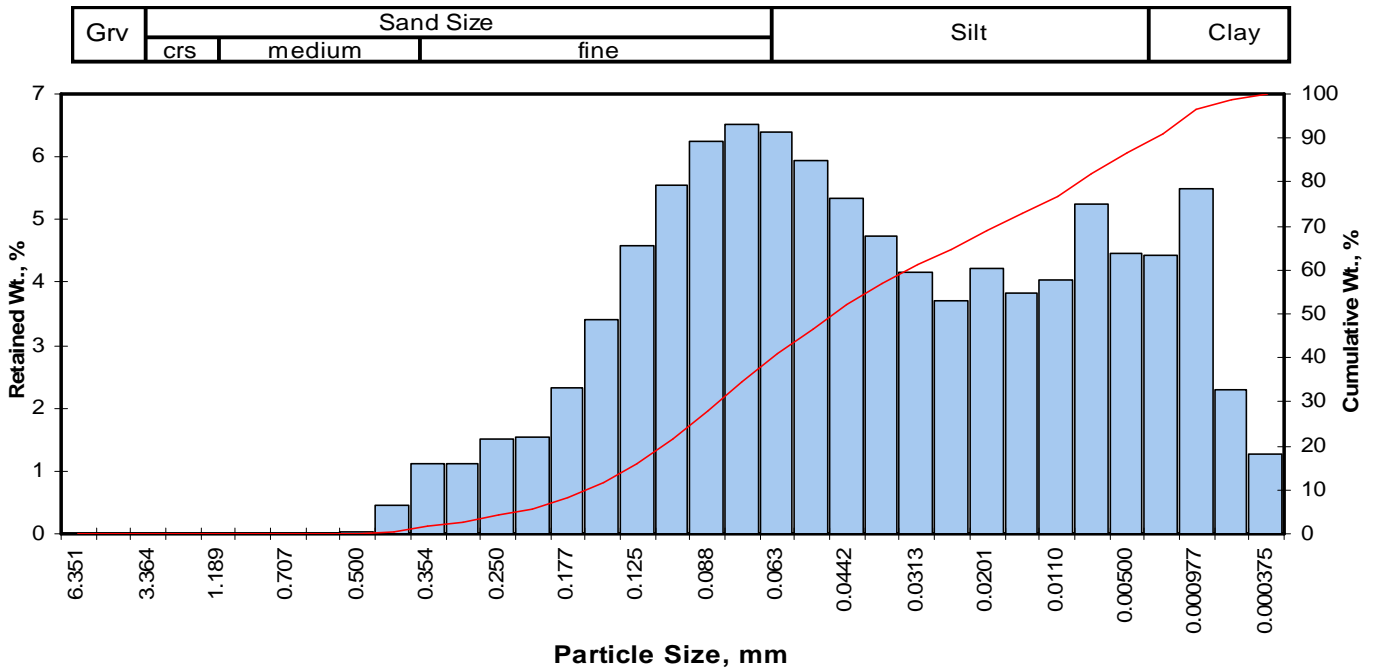
Measure	Trask	Inman	Folk-Ward
Median, phi	3.66	3.66	3.66
Median, in.	0.0031	0.0031	0.0031
Median, mm	0.079	0.079	0.079
Mean, phi	3.27	4.19	4.02
Mean, in.	0.0041	0.0022	0.0024
Mean, mm	0.104	0.055	0.062
Sorting	2.996	2.495	2.608
Skewness	0.789	0.212	0.235
Kurtosis	0.176	0.799	1.163

Grain Size Description	Fine sand
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	11.72
Fine Sand	200	40.06
Silt	>0.005 mm	38.54
Clay	<0.005 mm	9.68
Total	Total	100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-M195-67.5-67.8
Depth, ft: 67.5-67.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.03	0.03	0.03
0.0166	0.420	1.25	40	0.44	0.44	0.47
0.0139	0.354	1.50	45	1.12	1.12	1.59
0.0117	0.297	1.75	50	1.12	1.12	2.72
0.0098	0.250	2.00	60	1.50	1.50	4.22
0.0083	0.210	2.25	70	1.53	1.53	5.75
0.0070	0.177	2.50	80	2.31	2.31	8.06
0.0059	0.149	2.75	100	3.40	3.40	11.47
0.0049	0.125	3.00	120	4.58	4.59	16.05
0.0041	0.105	3.25	140	5.55	5.56	21.61
0.0035	0.088	3.50	170	6.23	6.24	27.85
0.0029	0.074	3.75	200	6.52	6.53	34.38
0.0025	0.063	4.00	230	6.40	6.41	40.79
0.0021	0.053	4.25	270	5.95	5.96	46.75
0.00174	0.0442	4.50	325	5.34	5.35	52.09
0.00146	0.0372	4.75	400	4.73	4.74	56.83
0.00123	0.0313	5.00	450	4.17	4.18	61.01
0.000986	0.0250	5.32	500	3.71	3.72	64.72
0.000790	0.0201	5.64	635	4.21	4.22	68.94
0.000615	0.0156	6.00		3.84	3.85	72.78
0.000435	0.0110	6.50		4.05	4.06	76.84
0.000308	0.00781	7.00		5.23	5.24	82.08
0.000197	0.00500	7.65		4.46	4.47	86.54
0.000077	0.00195	9.00		4.43	4.44	90.98
0.000038	0.000977	10.00		5.47	5.48	96.46
0.000019	0.000488	11.00		2.28	2.28	98.74
0.000015	0.000375	11.38		1.26	1.26	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.13	0.0090	0.229
10	2.64	0.0063	0.160
16	3.00	0.0049	0.125
25	3.39	0.0038	0.096
40	3.97	0.0025	0.064
50	4.40	0.0019	0.047
60	4.94	0.0013	0.033
75	6.27	0.0005	0.013
84	7.28	0.0003	0.006
90	8.70	0.0001	0.002
95	9.73	0.0000	0.001

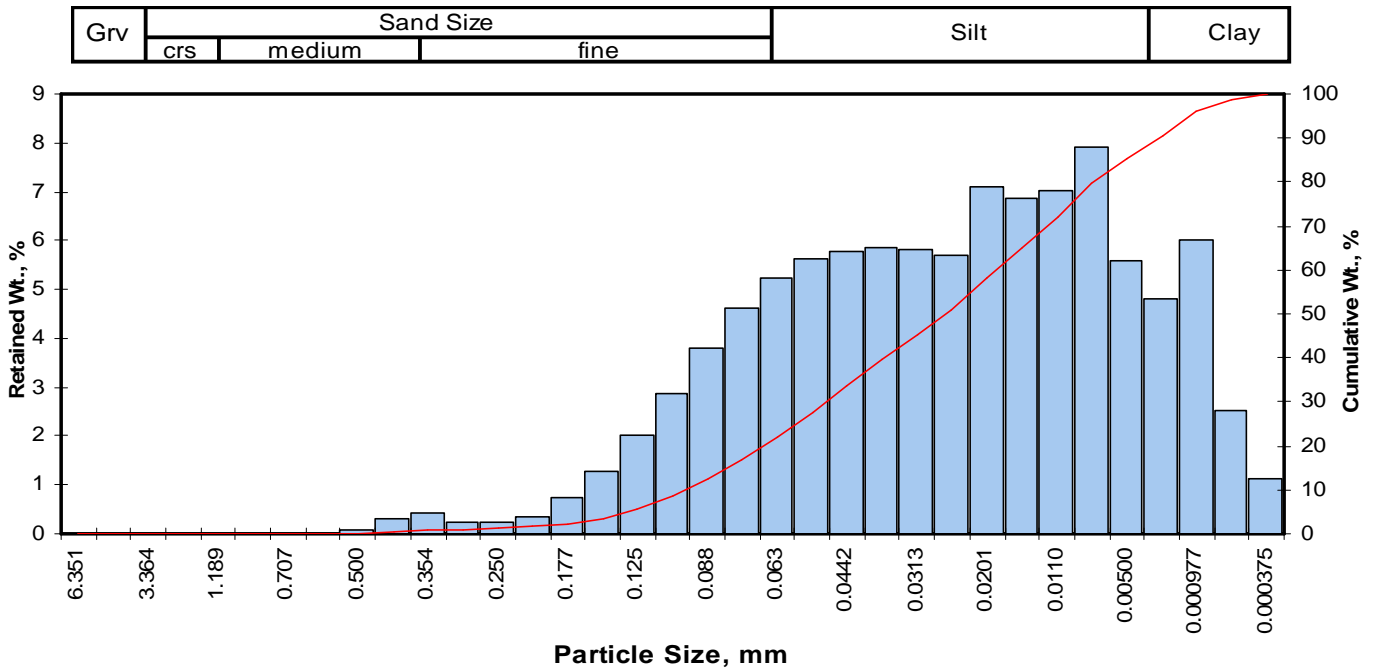
Measure	Trask	Inman	Folk-Ward
Median, phi	4.40	4.40	4.40
Median, in.	0.0019	0.0019	0.0019
Median, mm	0.047	0.047	0.047
Mean, phi	4.20	5.14	4.89
Mean, in.	0.0021	0.0011	0.0013
Mean, mm	0.054	0.028	0.034
Sorting	2.720	2.140	2.223
Skewness	0.744	0.344	0.373
Kurtosis	0.262	0.777	1.080

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.47
Fine Sand	200	33.91
Silt	>0.005 mm	52.16
Clay	<0.005 mm	13.46
Total	Total	100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-M195-79.5-80.0
 Depth, ft: 79.5-80.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.07	0.07	0.08
0.0166	0.420	1.25	40	0.31	0.31	0.39
0.0139	0.354	1.50	45	0.41	0.41	0.80
0.0117	0.297	1.75	50	0.25	0.25	1.05
0.0098	0.250	2.00	60	0.23	0.23	1.28
0.0083	0.210	2.25	70	0.33	0.33	1.61
0.0070	0.177	2.50	80	0.72	0.72	2.33
0.0059	0.149	2.75	100	1.29	1.29	3.62
0.0049	0.125	3.00	120	2.02	2.02	5.64
0.0041	0.105	3.25	140	2.88	2.88	8.52
0.0035	0.088	3.50	170	3.79	3.79	12.32
0.0029	0.074	3.75	200	4.60	4.60	16.92
0.0025	0.063	4.00	230	5.23	5.24	22.16
0.0021	0.053	4.25	270	5.62	5.63	27.78
0.00174	0.0442	4.50	325	5.79	5.80	33.58
0.00146	0.0372	4.75	400	5.86	5.87	39.45
0.00123	0.0313	5.00	450	5.81	5.82	45.26
0.000986	0.0250	5.32	500	5.71	5.72	50.98
0.000790	0.0201	5.64	635	7.11	7.12	58.10
0.000615	0.0156	6.00		6.87	6.88	64.97
0.000435	0.0110	6.50		7.02	7.03	72.00
0.000308	0.00781	7.00		7.89	7.90	79.90
0.000197	0.00500	7.65		5.59	5.60	85.49
0.000077	0.00195	9.00		4.82	4.83	90.32
0.000038	0.000977	10.00		6.00	6.01	96.33
0.000019	0.000488	11.00		2.53	2.53	98.86
0.000015	0.000375	11.38		1.14	1.14	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.92	0.0052	0.132
10	3.35	0.0039	0.098
16	3.70	0.0030	0.077
25	4.13	0.0023	0.057
40	4.77	0.0014	0.037
50	5.27	0.0010	0.026
60	5.74	0.0007	0.019
75	6.69	0.0004	0.010
84	7.47	0.0002	0.006
90	8.91	0.0001	0.002
95	9.78	0.0000	0.001

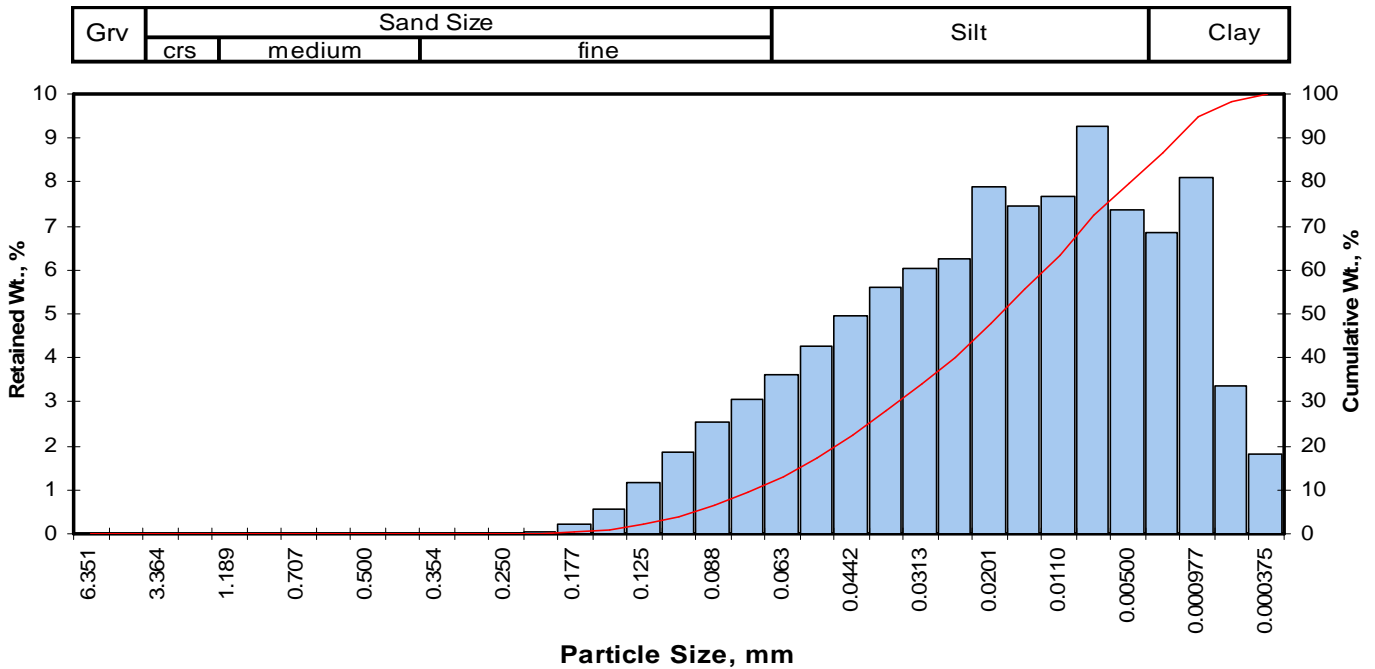
Measure	Trask	Inman	Folk-Ward
Median, phi	5.27	5.27	5.27
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.026	0.026	0.026
Mean, phi	4.90	5.59	5.48
Mean, in.	0.0013	0.0008	0.0009
Mean, mm	0.033	0.021	0.022
Sorting	2.431	1.886	1.982
Skewness	0.906	0.170	0.243
Kurtosis	0.247	0.818	1.096

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.39
Fine Sand	200	16.54
Silt	>0.005 mm	68.57
Clay	<0.005 mm	14.51
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-M195-101.0-101.5
Depth, ft: 101.0-101.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.03	0.03	0.03
0.0070	0.177	2.50	80	0.21	0.21	0.24
0.0059	0.149	2.75	100	0.56	0.56	0.80
0.0049	0.125	3.00	120	1.15	1.15	1.96
0.0041	0.105	3.25	140	1.86	1.86	3.82
0.0035	0.088	3.50	170	2.52	2.52	6.34
0.0029	0.074	3.75	200	3.07	3.08	9.42
0.0025	0.063	4.00	230	3.62	3.63	13.04
0.0021	0.053	4.25	270	4.27	4.28	17.32
0.00174	0.0442	4.50	325	4.94	4.95	22.27
0.00146	0.0372	4.75	400	5.60	5.61	27.88
0.00123	0.0313	5.00	450	6.02	6.03	33.91
0.000986	0.0250	5.32	500	6.22	6.23	40.14
0.000790	0.0201	5.64	635	7.86	7.87	48.02
0.000615	0.0156	6.00		7.46	7.47	55.49
0.000435	0.0110	6.50		7.65	7.66	63.15
0.000308	0.00781	7.00		9.27	9.29	72.44
0.000197	0.00500	7.65		7.36	7.37	79.81
0.000077	0.00195	9.00		6.86	6.87	86.69
0.000038	0.000977	10.00		8.10	8.11	94.80
0.000019	0.000488	11.00		3.37	3.38	98.18
0.000015	0.000375	11.38		1.82	1.82	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.37	0.0038	0.097
10	3.79	0.0028	0.072
16	4.17	0.0022	0.055
25	4.62	0.0016	0.041
40	5.31	0.0010	0.025
50	5.74	0.0007	0.019
60	6.29	0.0005	0.013
75	7.22	0.0003	0.007
84	8.47	0.0001	0.003
90	9.41	0.0001	0.001
95	10.06	0.0000	0.001

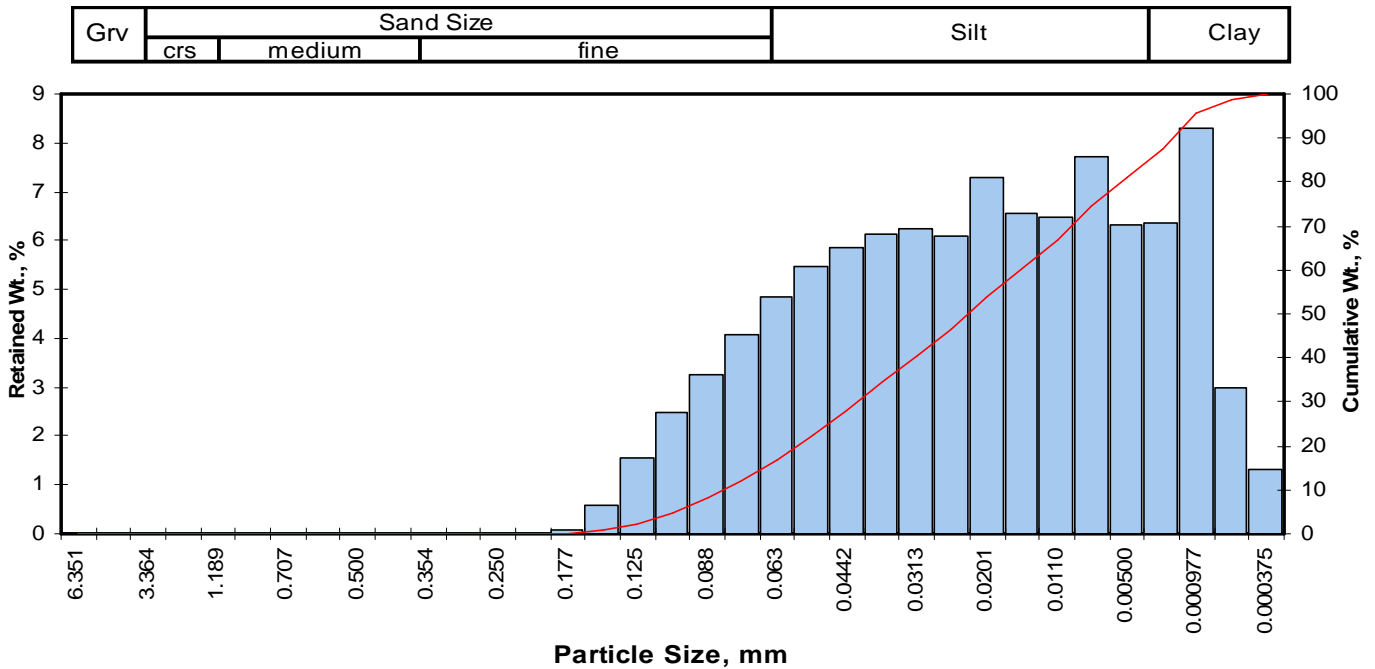
Measure	Trask	Inman	Folk-Ward
Median, phi	5.74	5.74	5.74
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.019	0.019	0.019
Mean, phi	5.40	6.32	6.13
Mean, in.	0.0009	0.0005	0.0006
Mean, mm	0.024	0.013	0.014
Sorting	2.464	2.149	2.088
Skewness	0.878	0.273	0.282
Kurtosis	0.240	0.557	1.054

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	94.42
Silt	>0.005 mm	70.40
Clay	<0.005 mm	20.19
Total	Total	100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-M195-146.0-146.5
Depth, ft: 146.0-146.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.09	0.09	0.09
0.0059	0.149	2.75	100	0.57	0.57	0.66
0.0049	0.125	3.00	120	1.55	1.55	2.21
0.0041	0.105	3.25	140	2.49	2.49	4.71
0.0035	0.088	3.50	170	3.27	3.27	7.98
0.0029	0.074	3.75	200	4.05	4.06	12.04
0.0025	0.063	4.00	230	4.84	4.85	16.89
0.0021	0.053	4.25	270	5.46	5.47	22.35
0.00174	0.0442	4.50	325	5.84	5.85	28.20
0.00146	0.0372	4.75	400	6.12	6.13	34.33
0.00123	0.0313	5.00	450	6.22	6.23	40.56
0.000986	0.0250	5.32	500	6.10	6.11	46.67
0.000790	0.0201	5.64	635	7.28	7.29	53.96
0.000615	0.0156	6.00		6.54	6.55	60.51
0.000435	0.0110	6.50		6.47	6.48	66.98
0.000308	0.00781	7.00		7.69	7.70	74.69
0.000197	0.00500	7.65		6.30	6.31	80.99
0.000077	0.00195	9.00		6.37	6.38	87.37
0.000038	0.000977	10.00		8.30	8.31	95.68
0.000019	0.000488	11.00		2.99	2.99	98.68
0.000015	0.000375	11.38		1.32	1.32	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.27	0.0041	0.104
10	3.62	0.0032	0.081
16	3.95	0.0025	0.065
25	4.36	0.0019	0.049
40	4.98	0.0012	0.032
50	5.47	0.0009	0.023
60	5.97	0.0006	0.016
75	7.03	0.0003	0.008
84	8.28	0.0001	0.003
90	9.32	0.0001	0.002
95	9.92	0.0000	0.001

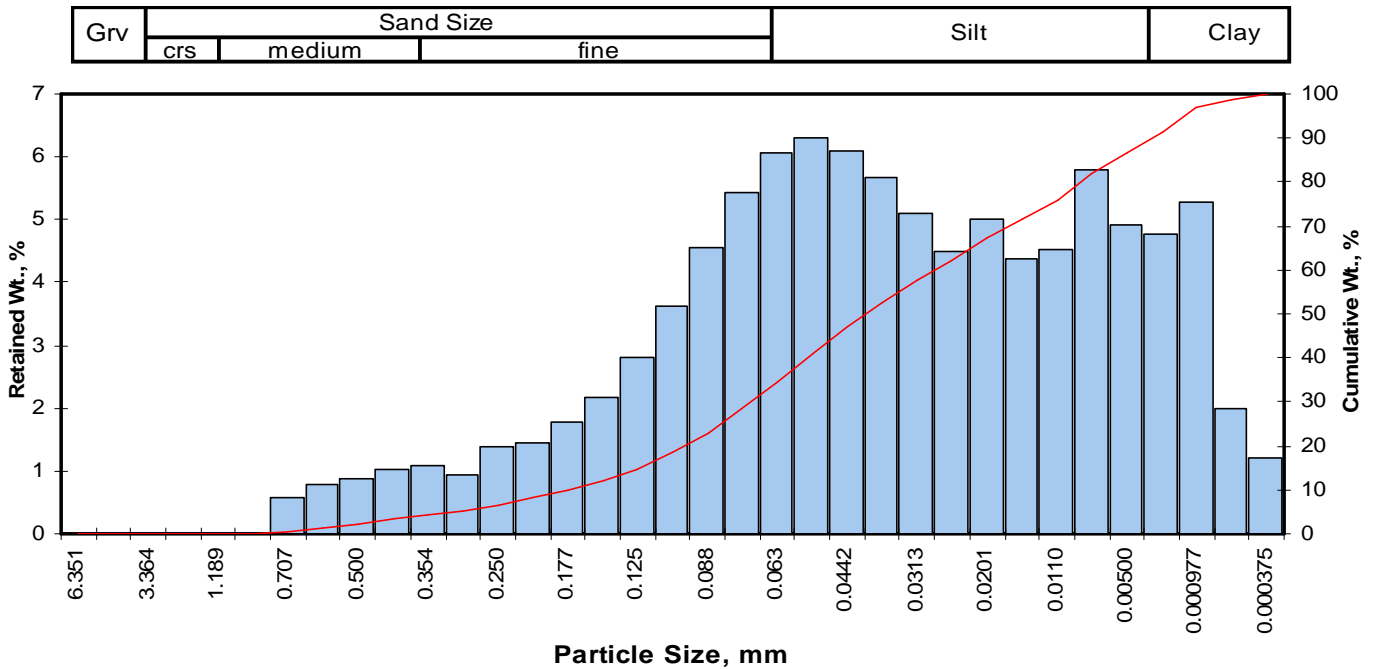
Measure	Trask	Inman	Folk-Ward
Median, phi	5.47	5.47	5.47
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.023	0.023	0.023
Mean, phi	5.15	6.12	5.90
Mean, in.	0.0011	0.0006	0.0007
Mean, mm	0.028	0.014	0.017
Sorting	2.522	2.165	2.089
Skewness	0.852	0.301	0.321
Kurtosis	0.257	0.535	1.020

Grain Size Description	Silt
(ASTM-USCS Scale)	(based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	12.04
Silt	>0.005 mm	68.96
Clay	<0.005 mm	19.01
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-M197-52.5-53.0
 Depth, ft: 52.5-53.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.57	0.57	0.57
0.0234	0.595	0.75	30	0.78	0.78	1.35
0.0197	0.500	1.00	35	0.87	0.87	2.22
0.0166	0.420	1.25	40	1.01	1.01	3.24
0.0139	0.354	1.50	45	1.09	1.09	4.33
0.0117	0.297	1.75	50	0.92	0.92	5.25
0.0098	0.250	2.00	60	1.38	1.38	6.63
0.0083	0.210	2.25	70	1.44	1.44	8.07
0.0070	0.177	2.50	80	1.77	1.77	9.85
0.0059	0.149	2.75	100	2.17	2.17	12.02
0.0049	0.125	3.00	120	2.80	2.80	14.82
0.0041	0.105	3.25	140	3.63	3.64	18.46
0.0035	0.088	3.50	170	4.56	4.57	23.02
0.0029	0.074	3.75	200	5.42	5.43	28.45
0.0025	0.063	4.00	230	6.05	6.06	34.51
0.0021	0.053	4.25	270	6.29	6.30	40.81
0.00174	0.0442	4.50	325	6.10	6.11	46.92
0.00146	0.0372	4.75	400	5.66	5.67	52.58
0.00123	0.0313	5.00	450	5.08	5.09	57.67
0.000986	0.0250	5.32	500	4.50	4.51	62.18
0.000790	0.0201	5.64	635	4.99	5.00	67.17
0.000615	0.0156	6.00		4.37	4.38	71.55
0.000435	0.0110	6.50		4.51	4.52	76.07
0.000308	0.00781	7.00		5.79	5.80	81.86
0.000197	0.00500	7.65		4.91	4.92	86.78
0.000077	0.00195	9.00		4.75	4.76	91.54
0.000038	0.000977	10.00		5.26	5.27	96.81
0.000019	0.000488	11.00		1.98	1.98	98.79
0.000015	0.000375	11.38		1.21	1.21	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.68	0.0123	0.312
10	2.52	0.0069	0.175
16	3.08	0.0047	0.118
25	3.59	0.0033	0.083
40	4.22	0.0021	0.054
50	4.64	0.0016	0.040
60	5.17	0.0011	0.028
75	6.38	0.0005	0.012
84	7.28	0.0003	0.006
90	8.56	0.0001	0.003
95	9.66	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.64	4.64	4.64
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.040	0.040	0.040
Mean, phi	4.40	5.18	5.00
Mean, in.	0.0019	0.0011	0.0012
Mean, mm	0.047	0.028	0.031
Sorting	2.631	2.100	2.258
Skewness	0.784	0.259	0.259
Kurtosis	0.206	0.899	1.171

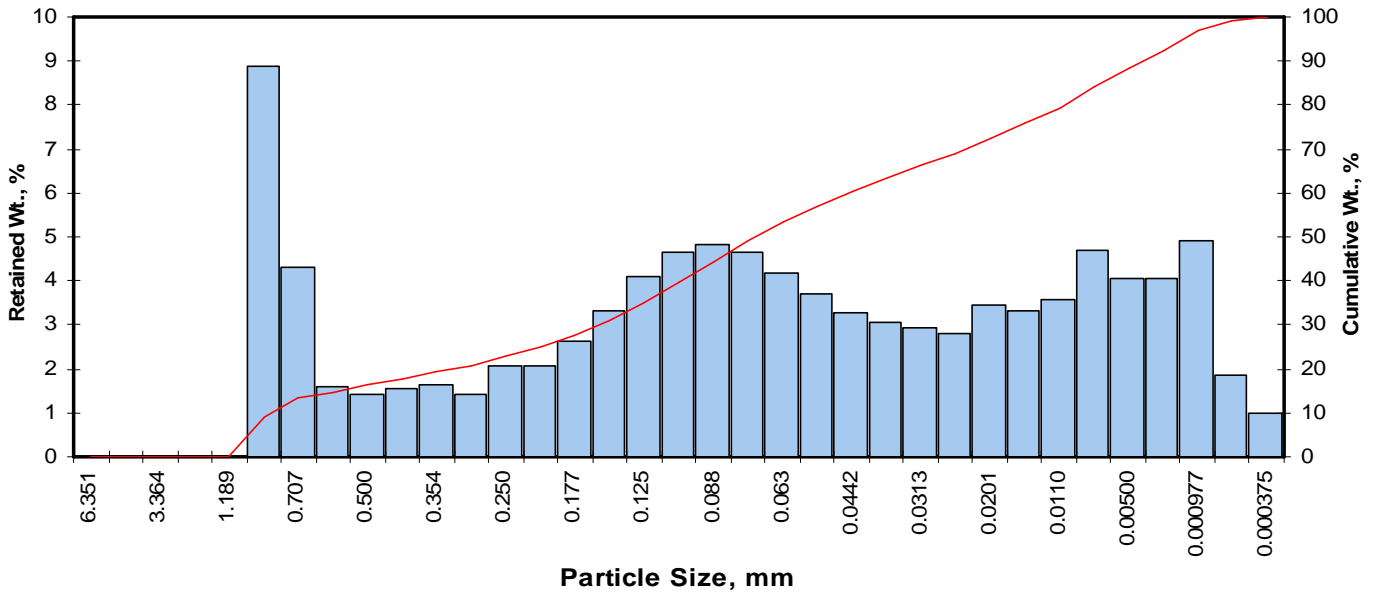
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.24
Fine Sand	200	25.21
Silt	>0.005 mm	58.33
Clay	<0.005 mm	13.22
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-M197-64.2-64.5
 Depth, ft: 64.2-64.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	8.88	8.89	8.89
0.0278	0.707	0.50	25	4.31	4.31	13.20
0.0234	0.595	0.75	30	1.60	1.60	14.80
0.0197	0.500	1.00	35	1.44	1.44	16.25
0.0166	0.420	1.25	40	1.54	1.54	17.79
0.0139	0.354	1.50	45	1.65	1.65	19.44
0.0117	0.297	1.75	50	1.41	1.41	20.85
0.0098	0.250	2.00	60	2.05	2.05	22.90
0.0083	0.210	2.25	70	2.06	2.06	24.96
0.0070	0.177	2.50	80	2.61	2.61	27.58
0.0059	0.149	2.75	100	3.32	3.32	30.90
0.0049	0.125	3.00	120	4.09	4.09	34.99
0.0041	0.105	3.25	140	4.64	4.64	39.64
0.0035	0.088	3.50	170	4.83	4.83	44.47
0.0029	0.074	3.75	200	4.64	4.64	49.12
0.0025	0.063	4.00	230	4.19	4.19	53.31
0.0021	0.053	4.25	270	3.69	3.69	57.01
0.00174	0.0442	4.50	325	3.29	3.29	60.30
0.00146	0.0372	4.75	400	3.05	3.05	63.35
0.00123	0.0313	5.00	450	2.92	2.92	66.28
0.000986	0.0250	5.32	500	2.81	2.81	69.09
0.000790	0.0201	5.64	635	3.45	3.45	72.54
0.000615	0.0156	6.00		3.33	3.33	75.88
0.000435	0.0110	6.50		3.58	3.58	79.46
0.000308	0.00781	7.00		4.68	4.68	84.14
0.000197	0.00500	7.65		4.05	4.05	88.20
0.000077	0.00195	9.00		4.06	4.06	92.26
0.000038	0.000977	10.00		4.89	4.89	97.16
0.000019	0.000488	11.00		1.84	1.84	99.00
0.000015	0.000375	11.38		1.00	1.00	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.03	0.0385	0.979
10	0.31	0.0317	0.804
16	0.96	0.0203	0.515
25	2.25	0.0083	0.210
40	3.27	0.0041	0.104
50	3.80	0.0028	0.072
60	4.48	0.0018	0.045
75	5.91	0.0007	0.017
84	6.98	0.0003	0.008
90	8.25	0.0001	0.003
95	9.56	0.0001	0.001

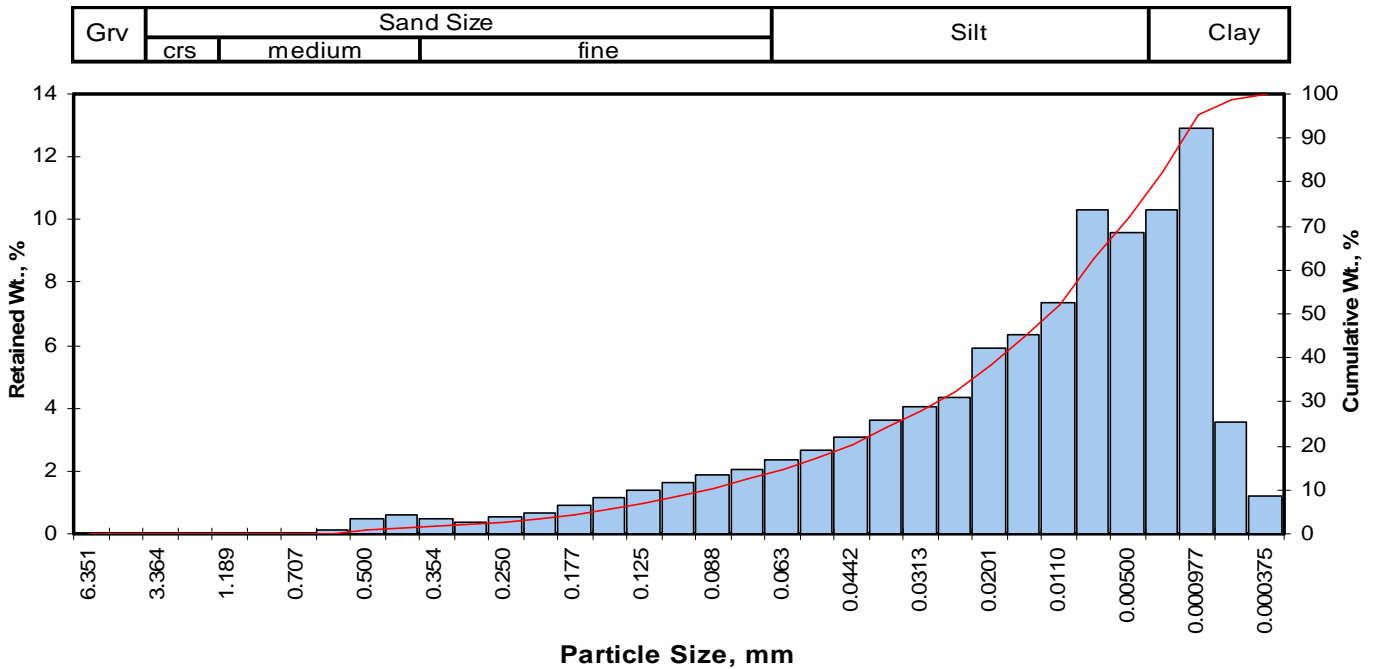
Measure	Trask	Inman	Folk-Ward
Median, phi	3.80	3.80	3.80
Median, in.	0.0028	0.0028	0.0028
Median, mm	0.072	0.072	0.072
Mean, phi	3.14	3.97	3.91
Mean, in.	0.0045	0.0025	0.0026
Mean, mm	0.113	0.064	0.066
Sorting	3.546	3.014	2.950
Skewness	0.825	0.056	0.132
Kurtosis	0.121	0.581	1.069

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	17.79
Fine Sand	200	31.33
Silt	>0.005 mm	39.08
Clay	<0.005 mm	11.80
Total	Total	100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-M197-82.5-83.0
 Depth, ft: 82.5-83.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.01	0.01	0.01
0.0234	0.595	0.75	30	0.15	0.15	0.16
0.0197	0.500	1.00	35	0.50	0.50	0.66
0.0166	0.420	1.25	40	0.61	0.61	1.27
0.0139	0.354	1.50	45	0.50	0.50	1.77
0.0117	0.297	1.75	50	0.36	0.36	2.13
0.0098	0.250	2.00	60	0.57	0.57	2.70
0.0083	0.210	2.25	70	0.67	0.67	3.38
0.0070	0.177	2.50	80	0.92	0.92	4.30
0.0059	0.149	2.75	100	1.16	1.16	5.46
0.0049	0.125	3.00	120	1.39	1.39	6.85
0.0041	0.105	3.25	140	1.61	1.61	8.47
0.0035	0.088	3.50	170	1.84	1.84	10.31
0.0029	0.074	3.75	200	2.06	2.06	12.37
0.0025	0.063	4.00	230	2.32	2.32	14.70
0.0021	0.053	4.25	270	2.66	2.67	17.36
0.00174	0.0442	4.50	325	3.10	3.11	20.47
0.00146	0.0372	4.75	400	3.62	3.63	24.10
0.00123	0.0313	5.00	450	4.04	4.05	28.15
0.000986	0.0250	5.32	500	4.35	4.36	32.50
0.000790	0.0201	5.64	635	5.89	5.90	38.41
0.000615	0.0156	6.00		6.30	6.31	44.72
0.000435	0.0110	6.50		7.34	7.35	52.07
0.000308	0.00781	7.00		10.30	10.32	62.39
0.000197	0.00500	7.65		9.58	9.60	71.99
0.000077	0.00195	9.00		10.30	10.32	82.31
0.000038	0.000977	10.00		12.90	12.93	95.24
0.000019	0.000488	11.00		3.56	3.57	98.81
0.000015	0.000375	11.38		1.19	1.19	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.65	0.0063	0.159
10	3.46	0.0036	0.091
16	4.12	0.0023	0.057
25	4.81	0.0014	0.036
40	5.73	0.0007	0.019
50	6.36	0.0005	0.012
60	6.88	0.0003	0.008
75	8.04	0.0001	0.004
84	9.13	0.0001	0.002
90	9.59	0.0001	0.001
95	9.98	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.36	6.36	6.36
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.012	0.012	0.012
Mean, phi	5.66	6.63	6.54
Mean, in.	0.0008	0.0004	0.0004
Mean, mm	0.020	0.010	0.011
Sorting	3.067	2.504	2.363
Skewness	0.957	0.107	0.048
Kurtosis	0.178	0.464	0.929

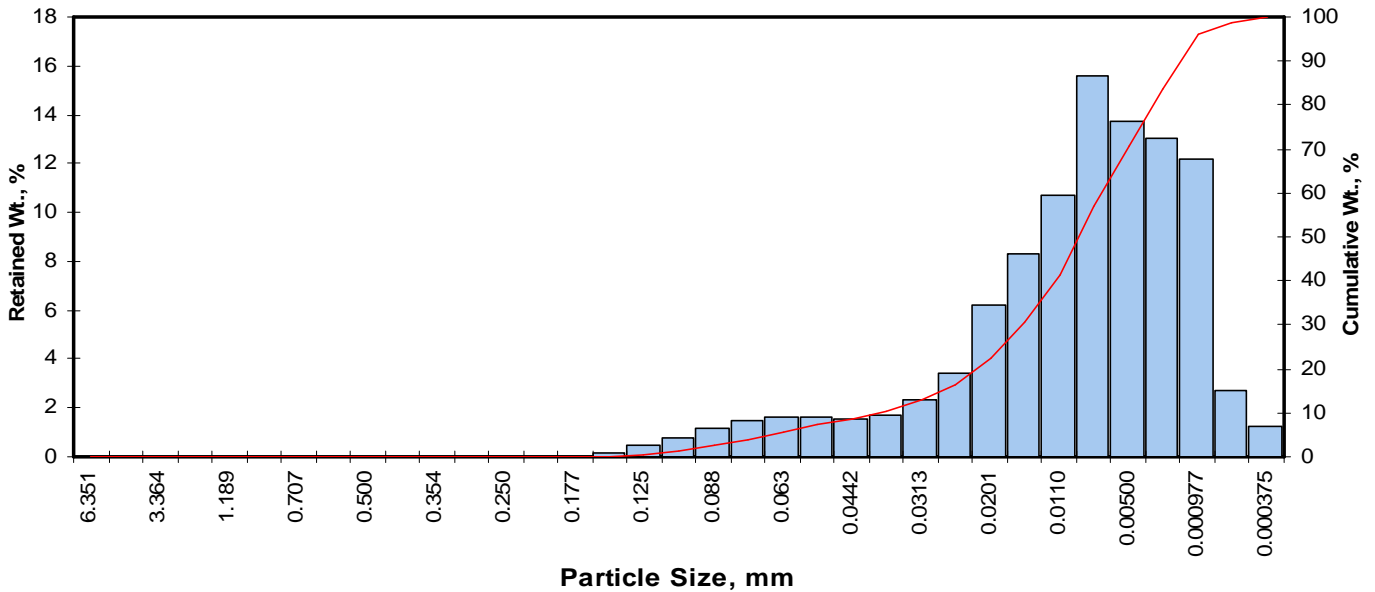
Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.27
Fine Sand	200	11.10
Silt	>0.005 mm	59.62
Clay	<0.005 mm	28.01
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-M197-135.0-135.4
 Depth, ft: 135.0-135.4

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.01	0.01	0.01
0.0059	0.149	2.75	100	0.13	0.13	0.14
0.0049	0.125	3.00	120	0.43	0.43	0.57
0.0041	0.105	3.25	140	0.78	0.78	1.36
0.0035	0.088	3.50	170	1.13	1.13	2.49
0.0029	0.074	3.75	200	1.45	1.45	3.94
0.0025	0.063	4.00	230	1.64	1.64	5.58
0.0021	0.053	4.25	270	1.63	1.63	7.21
0.00174	0.0442	4.50	325	1.54	1.54	8.75
0.00146	0.0372	4.75	400	1.71	1.71	10.47
0.00123	0.0313	5.00	450	2.34	2.34	12.81
0.000986	0.0250	5.32	500	3.42	3.42	16.23
0.000790	0.0201	5.64	635	6.20	6.21	22.44
0.000615	0.0156	6.00		8.27	8.28	30.72
0.000435	0.0110	6.50		10.70	10.71	41.43
0.000308	0.00781	7.00		15.60	15.62	57.04
0.000197	0.00500	7.65		13.70	13.71	70.76
0.000077	0.00195	9.00		13.00	13.01	83.77
0.000038	0.000977	10.00		12.20	12.21	95.99
0.000019	0.000488	11.00		2.75	2.75	98.74
0.000015	0.000375	11.38		1.26	1.26	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.91	0.0026	0.066
10	4.68	0.0015	0.039
16	5.30	0.0010	0.025
25	5.75	0.0007	0.019
40	6.43	0.0005	0.012
50	6.77	0.0004	0.009
60	7.14	0.0003	0.007
75	8.09	0.0001	0.004
84	9.02	0.0001	0.002
90	9.51	0.0001	0.001
95	9.92	0.0000	0.001

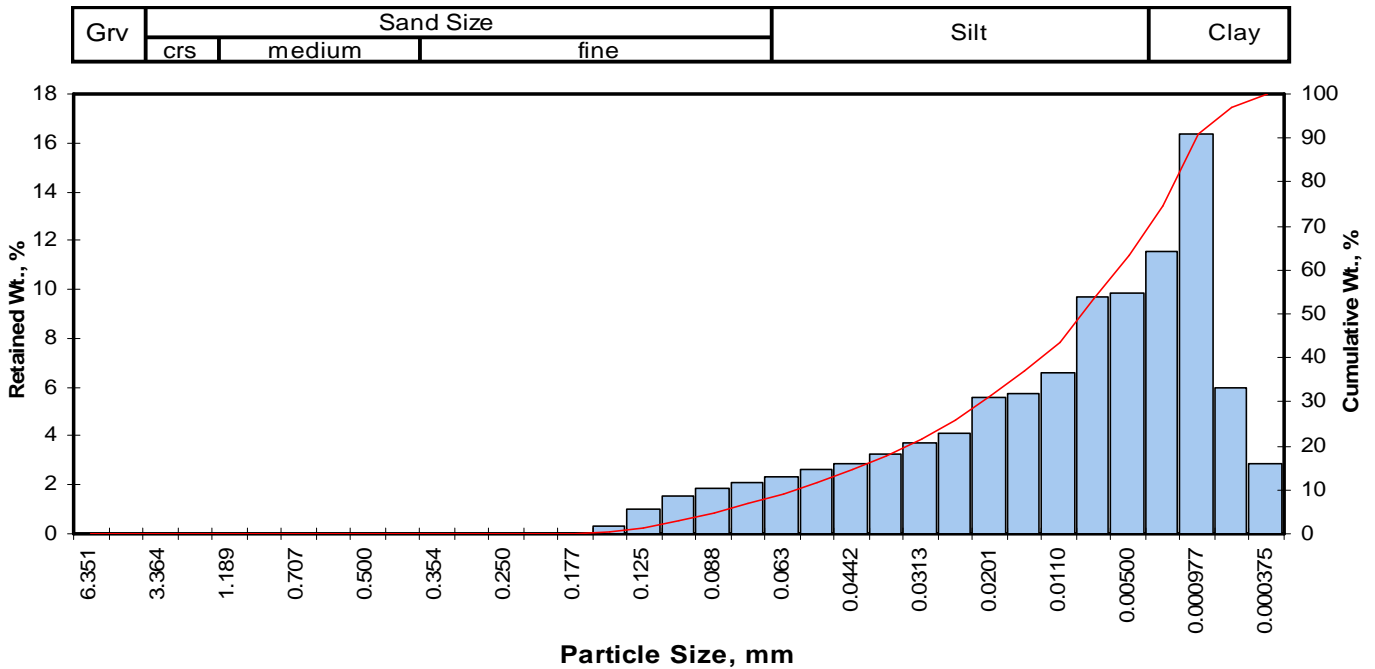
Measure	Trask	Inman	Folk-Ward
Median, phi	6.77	6.77	6.77
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.009	0.009	0.009
Mean, phi	6.49	7.16	7.03
Mean, in.	0.0004	0.0003	0.0003
Mean, mm	0.011	0.007	0.008
Sorting	2.246	1.860	1.840
Skewness	0.905	0.206	0.127
Kurtosis	0.198	0.615	1.054

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	3.94
Silt	>0.005 mm	66.82
Clay	<0.005 mm	29.24
Total	Total	100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-M197-138.5-139.0
Depth, ft: 138.5-139.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.03	0.03	0.03
0.0059	0.149	2.75	100	0.28	0.28	0.31
0.0049	0.125	3.00	120	0.98	0.98	1.29
0.0041	0.105	3.25	140	1.55	1.56	2.85
0.0035	0.088	3.50	170	1.82	1.83	4.67
0.0029	0.074	3.75	200	2.05	2.06	6.73
0.0025	0.063	4.00	230	2.35	2.36	9.09
0.0021	0.053	4.25	270	2.62	2.63	11.72
0.00174	0.0442	4.50	325	2.85	2.86	14.58
0.00146	0.0372	4.75	400	3.23	3.24	17.82
0.00123	0.0313	5.00	450	3.71	3.72	21.54
0.000986	0.0250	5.32	500	4.13	4.14	25.68
0.000790	0.0201	5.64	635	5.58	5.60	31.28
0.000615	0.0156	6.00		5.74	5.76	37.04
0.000435	0.0110	6.50		6.59	6.61	43.66
0.000308	0.00781	7.00		9.69	9.72	53.38
0.000197	0.00500	7.65		9.82	9.85	63.23
0.000077	0.00195	9.00		11.50	11.54	74.77
0.000038	0.000977	10.00		16.30	16.36	91.13
0.000019	0.000488	11.00		5.96	5.98	97.11
0.000015	0.000375	11.38		2.88	2.89	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.54	0.0034	0.086
10	4.09	0.0023	0.059
16	4.61	0.0016	0.041
25	5.27	0.0010	0.026
40	6.22	0.0005	0.013
50	6.83	0.0003	0.009
60	7.43	0.0002	0.006
75	9.01	0.0001	0.002
84	9.56	0.0001	0.001
90	9.93	0.0000	0.001
95	10.65	0.0000	0.001

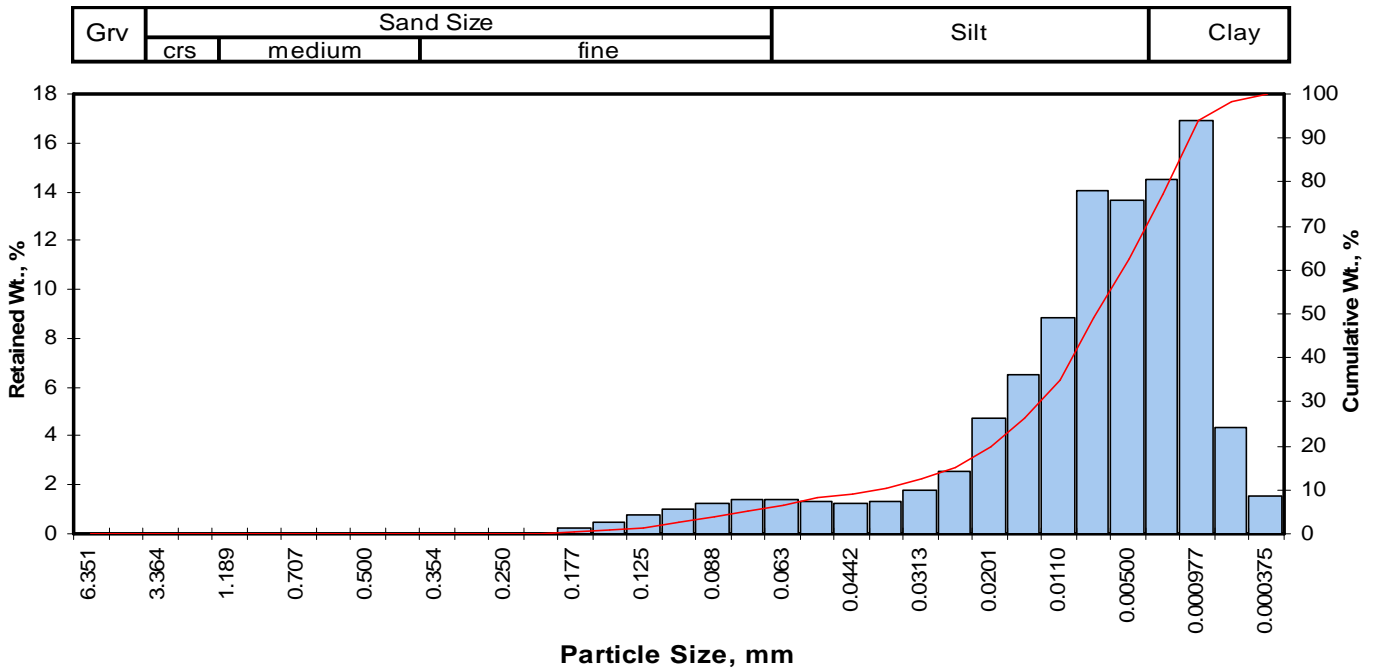
Measure	Trask	Inman	Folk-Ward
Median, phi	6.83	6.83	6.83
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.009	0.009	0.009
Mean, phi	6.16	7.09	7.00
Mean, in.	0.0005	0.0003	0.0003
Mean, mm	0.014	0.007	0.008
Sorting	3.664	2.477	2.315
Skewness	0.804	0.105	0.090
Kurtosis	0.208	0.435	0.777

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	6.73
Silt	>0.005 mm	56.50
Clay	<0.005 mm	36.77
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-M197-145.5-146.0
Depth, ft: 145.5-146.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.03	0.03	0.03
0.0070	0.177	2.50	80	0.20	0.20	0.23
0.0059	0.149	2.75	100	0.49	0.49	0.73
0.0049	0.125	3.00	120	0.78	0.78	1.51
0.0041	0.105	3.25	140	1.03	1.03	2.54
0.0035	0.088	3.50	170	1.26	1.26	3.80
0.0029	0.074	3.75	200	1.41	1.41	5.21
0.0025	0.063	4.00	230	1.43	1.43	6.65
0.0021	0.053	4.25	270	1.34	1.34	7.99
0.00174	0.0442	4.50	325	1.23	1.23	9.22
0.00146	0.0372	4.75	400	1.33	1.33	10.55
0.00123	0.0313	5.00	450	1.78	1.78	12.33
0.000986	0.0250	5.32	500	2.58	2.58	14.92
0.000790	0.0201	5.64	635	4.71	4.72	19.64
0.000615	0.0156	6.00		6.48	6.49	26.13
0.000435	0.0110	6.50		8.83	8.84	34.97
0.000308	0.00781	7.00		14.00	14.02	49.00
0.000197	0.00500	7.65		13.60	13.62	62.62
0.000077	0.00195	9.00		14.50	14.52	77.14
0.000038	0.000977	10.00		16.90	16.93	94.07
0.000019	0.000488	11.00		4.37	4.38	98.45
0.000015	0.000375	11.38		1.55	1.55	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.71	0.0030	0.076
10	4.65	0.0016	0.040
16	5.39	0.0009	0.024
25	5.94	0.0006	0.016
40	6.68	0.0004	0.010
50	7.05	0.0003	0.008
60	7.52	0.0002	0.005
75	8.80	0.0001	0.002
84	9.41	0.0001	0.001
90	9.76	0.0000	0.001
95	10.21	0.0000	0.001

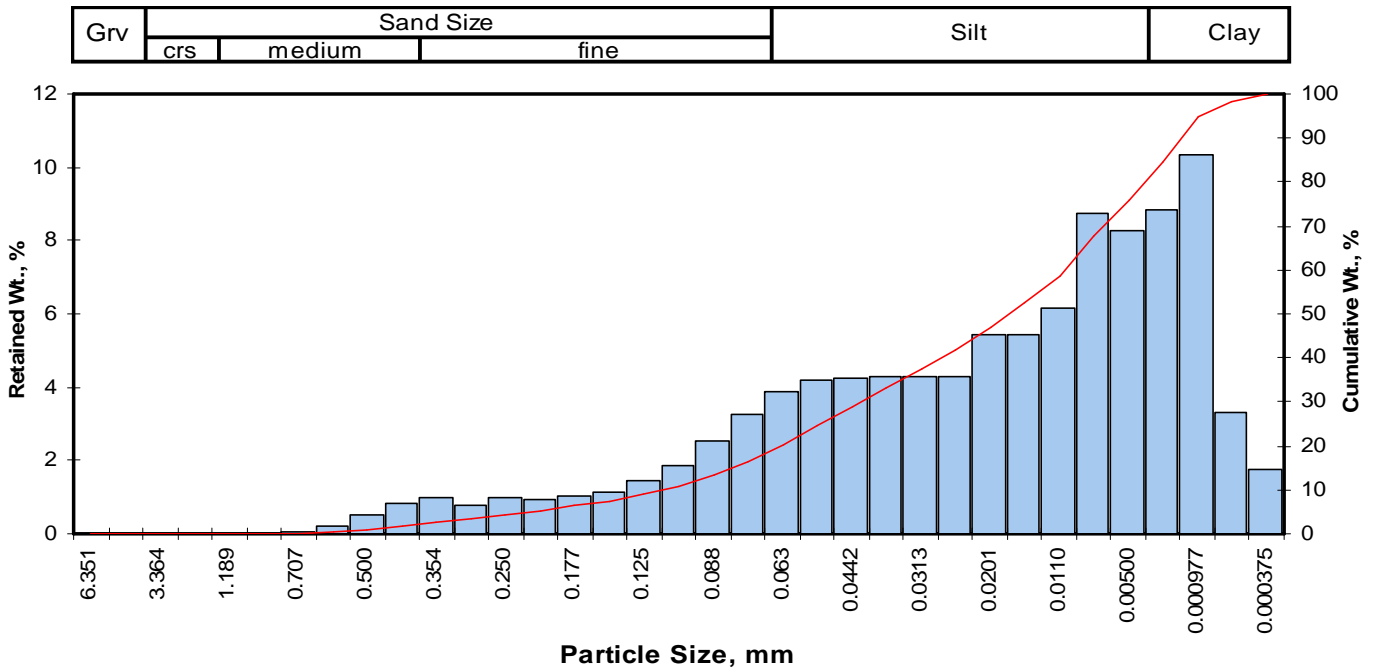
Measure	Trask	Inman	Folk-Ward
Median, phi	7.05	7.05	7.05
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.008	0.008	0.008
Mean, phi	6.75	7.40	7.28
Mean, in.	0.0004	0.0002	0.0003
Mean, mm	0.009	0.006	0.006
Sorting	2.697	2.006	1.988
Skewness	0.800	0.175	0.075
Kurtosis	0.181	0.620	0.931

Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	5.21
Silt	>0.005 mm	57.41
Clay	<0.005 mm	37.38
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PC167-17.8-18.3
Depth, ft: 17.8-18.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.06	0.06	0.06
0.0234	0.595	0.75	30	0.23	0.23	0.29
0.0197	0.500	1.00	35	0.51	0.51	0.80
0.0166	0.420	1.25	40	0.84	0.84	1.65
0.0139	0.354	1.50	45	0.96	0.96	2.61
0.0117	0.297	1.75	50	0.76	0.76	3.37
0.0098	0.250	2.00	60	1.00	1.00	4.37
0.0083	0.210	2.25	70	0.91	0.91	5.28
0.0070	0.177	2.50	80	1.01	1.01	6.30
0.0059	0.149	2.75	100	1.16	1.16	7.46
0.0049	0.125	3.00	120	1.42	1.42	8.88
0.0041	0.105	3.25	140	1.86	1.86	10.75
0.0035	0.088	3.50	170	2.52	2.53	13.27
0.0029	0.074	3.75	200	3.27	3.28	16.55
0.0025	0.063	4.00	230	3.87	3.88	20.43
0.0021	0.053	4.25	270	4.17	4.18	24.61
0.00174	0.0442	4.50	325	4.23	4.24	28.85
0.00146	0.0372	4.75	400	4.27	4.28	33.12
0.00123	0.0313	5.00	450	4.29	4.30	37.42
0.000986	0.0250	5.32	500	4.29	4.30	41.72
0.000790	0.0201	5.64	635	5.40	5.41	47.14
0.000615	0.0156	6.00		5.41	5.42	52.56
0.000435	0.0110	6.50		6.13	6.14	58.70
0.000308	0.00781	7.00		8.74	8.76	67.46
0.000197	0.00500	7.65		8.28	8.30	75.76
0.000077	0.00195	9.00		8.82	8.84	84.60
0.000038	0.000977	10.00		10.30	10.32	94.92
0.000019	0.000488	11.00		3.31	3.32	98.24
0.000015	0.000375	11.38		1.76	1.76	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.17	0.0087	0.222
10	3.15	0.0044	0.113
16	3.71	0.0030	0.077
25	4.27	0.0020	0.052
40	5.19	0.0011	0.027
50	5.83	0.0007	0.018
60	6.57	0.0004	0.010
75	7.59	0.0002	0.005
84	8.91	0.0001	0.002
90	9.52	0.0001	0.001
95	10.02	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.83	5.83	5.83
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.018	0.018	0.018
Mean, phi	5.13	6.31	6.15
Mean, in.	0.0011	0.0005	0.0006
Mean, mm	0.028	0.013	0.014
Sorting	3.152	2.600	2.490
Skewness	0.933	0.184	0.126
Kurtosis	0.209	0.510	0.971

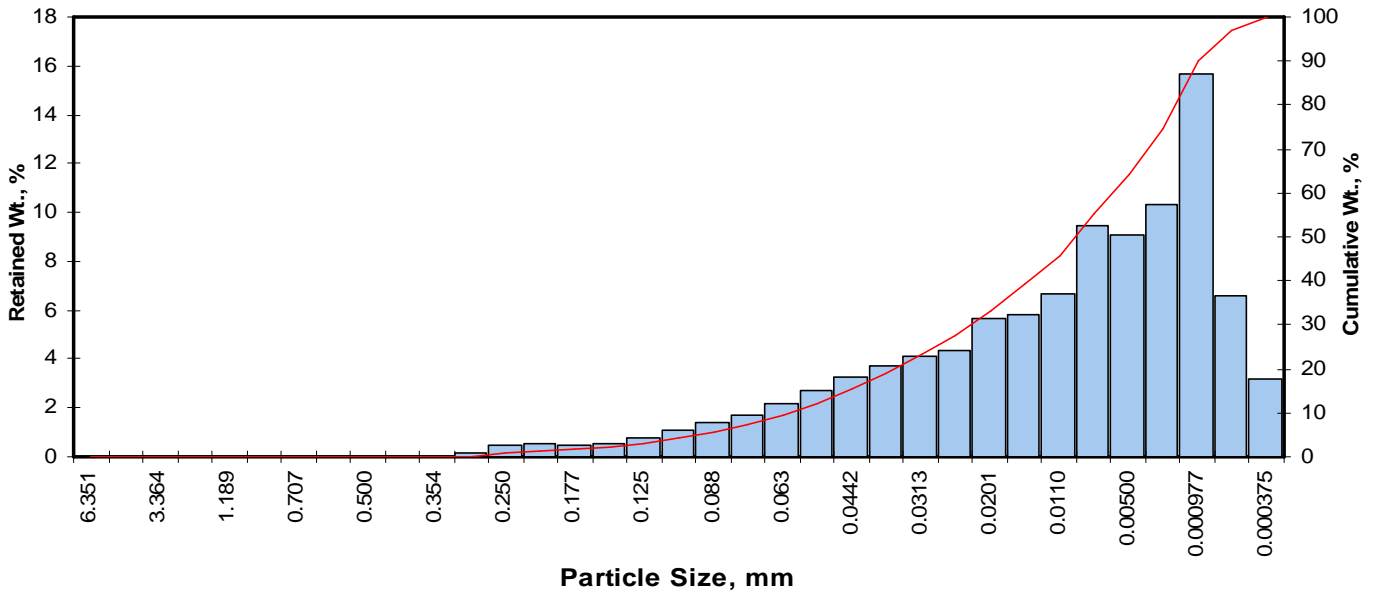
Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.65
Fine Sand	200	14.90
Silt	>0.005 mm	59.21
Clay	<0.005 mm	24.24
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PC167-21.3-21.8
Depth, ft: 21.3-21.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.03	0.03	0.03
0.0117	0.297	1.75	50	0.15	0.15	0.18
0.0098	0.250	2.00	60	0.50	0.50	0.68
0.0083	0.210	2.25	70	0.51	0.51	1.19
0.0070	0.177	2.50	80	0.47	0.47	1.66
0.0059	0.149	2.75	100	0.54	0.54	2.20
0.0049	0.125	3.00	120	0.80	0.80	3.00
0.0041	0.105	3.25	140	1.09	1.09	4.10
0.0035	0.088	3.50	170	1.38	1.38	5.48
0.0029	0.074	3.75	200	1.73	1.74	7.22
0.0025	0.063	4.00	230	2.19	2.20	9.42
0.0021	0.053	4.25	270	2.70	2.71	12.12
0.00174	0.0442	4.50	325	3.21	3.22	15.35
0.00146	0.0372	4.75	400	3.72	3.73	19.08
0.00123	0.0313	5.00	450	4.10	4.11	23.19
0.000986	0.0250	5.32	500	4.33	4.34	27.53
0.000790	0.0201	5.64	635	5.65	5.67	33.20
0.000615	0.0156	6.00		5.81	5.83	39.03
0.000435	0.0110	6.50		6.65	6.67	45.70
0.000308	0.00781	7.00		9.45	9.48	55.18
0.000197	0.00500	7.65		9.08	9.11	64.29
0.000077	0.00195	9.00		10.30	10.33	74.63
0.000038	0.000977	10.00		15.60	15.65	90.28
0.000019	0.000488	11.00		6.55	6.57	96.85
0.000015	0.000375	11.38		3.14	3.15	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.41	0.0037	0.094
10	4.05	0.0024	0.060
16	4.54	0.0017	0.043
25	5.13	0.0011	0.028
40	6.07	0.0006	0.015
50	6.73	0.0004	0.009
60	7.34	0.0002	0.006
75	9.02	0.0001	0.002
84	9.60	0.0001	0.001
90	9.98	0.0000	0.001
95	10.72	0.0000	0.001

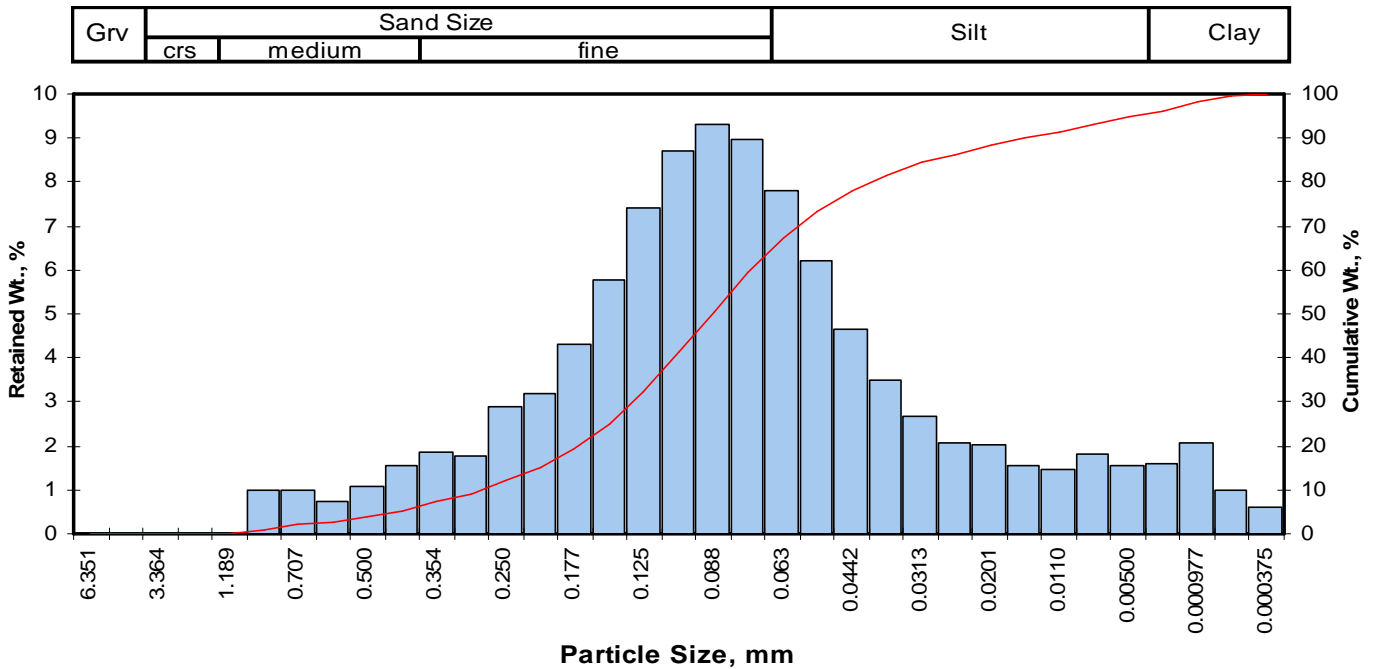
Measure	Trask	Inman	Folk-Ward
Median, phi	6.73	6.73	6.73
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.009	0.009	0.009
Mean, phi	6.04	7.07	6.96
Mean, in.	0.0006	0.0003	0.0003
Mean, mm	0.015	0.007	0.008
Sorting	3.851	2.527	2.371
Skewness	0.784	0.136	0.115
Kurtosis	0.224	0.445	0.770

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	7.22
Silt	>0.005 mm	57.08
Clay	<0.005 mm	35.71
Total	Total	100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PC170-37.0-37.5
Depth, ft: 37.0-37.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	1.00	1.00	1.00
0.0278	0.707	0.50	25	0.98	0.98	1.98
0.0234	0.595	0.75	30	0.75	0.75	2.73
0.0197	0.500	1.00	35	1.09	1.09	3.82
0.0166	0.420	1.25	40	1.53	1.53	5.35
0.0139	0.354	1.50	45	1.87	1.87	7.22
0.0117	0.297	1.75	50	1.77	1.77	8.99
0.0098	0.250	2.00	60	2.87	2.87	11.87
0.0083	0.210	2.25	70	3.18	3.18	15.05
0.0070	0.177	2.50	80	4.30	4.30	19.35
0.0059	0.149	2.75	100	5.76	5.76	25.11
0.0049	0.125	3.00	120	7.41	7.41	32.53
0.0041	0.105	3.25	140	8.70	8.70	41.23
0.0035	0.088	3.50	170	9.29	9.29	50.53
0.0029	0.074	3.75	200	8.95	8.95	59.48
0.0025	0.063	4.00	230	7.79	7.79	67.27
0.0021	0.053	4.25	270	6.20	6.20	73.48
0.00174	0.0442	4.50	325	4.67	4.67	78.15
0.00146	0.0372	4.75	400	3.48	3.48	81.63
0.00123	0.0313	5.00	450	2.65	2.65	84.28
0.000986	0.0250	5.32	500	2.06	2.06	86.34
0.000790	0.0201	5.64	635	2.01	2.01	88.35
0.000615	0.0156	6.00		1.56	1.56	89.91
0.000435	0.0110	6.50		1.47	1.47	91.39
0.000308	0.00781	7.00		1.80	1.80	93.19
0.000197	0.00500	7.65		1.55	1.55	94.74
0.000077	0.00195	9.00		1.59	1.59	96.33
0.000038	0.000977	10.00		2.06	2.06	98.39
0.000019	0.000488	11.00		0.99	0.99	99.38
0.000015	0.000375	11.38		0.62	0.62	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.19	0.0172	0.438
10	1.84	0.0110	0.280
16	2.31	0.0080	0.202
25	2.75	0.0059	0.149
40	3.21	0.0042	0.108
50	3.49	0.0035	0.089
60	3.77	0.0029	0.073
75	4.33	0.0020	0.050
84	4.97	0.0013	0.032
90	6.03	0.0006	0.015
95	7.87	0.0002	0.004

Measure	Trask	Inman	Folk-Ward
Median, phi	3.49	3.49	3.49
Median, in.	0.0035	0.0035	0.0035
Median, mm	0.089	0.089	0.089
Mean, phi	3.33	3.64	3.59
Mean, in.	0.0039	0.0032	0.0033
Mean, mm	0.099	0.080	0.083
Sorting	1.733	1.334	1.679
Skewness	0.964	0.115	0.214
Kurtosis	0.188	1.502	1.725

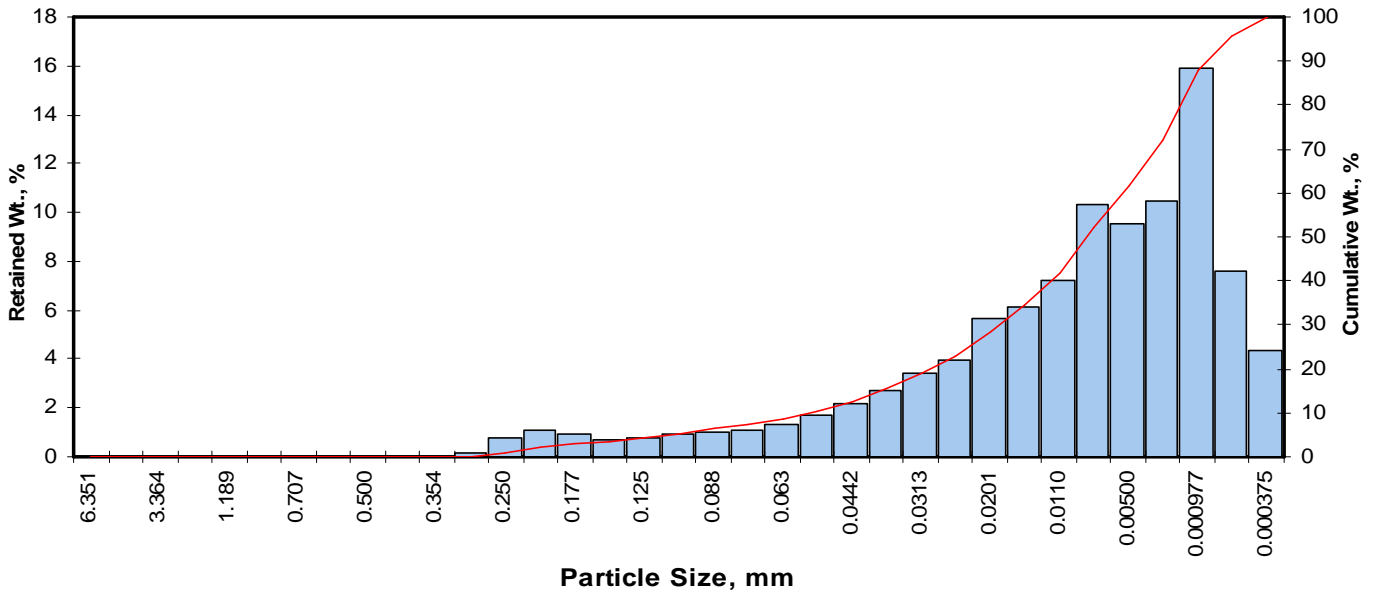
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.35
Fine Sand	200	54.13
Silt	>0.005 mm	35.26
Clay	<0.005 mm	5.26
Total	Total	100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PC170-43.5-44.0
 Depth, ft: 43.5-44.0

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.01	0.01	0.01
0.0117	0.297	1.75	50	0.15	0.15	0.16
0.0098	0.250	2.00	60	0.80	0.80	0.97
0.0083	0.210	2.25	70	1.05	1.05	2.02
0.0070	0.177	2.50	80	0.90	0.90	2.92
0.0059	0.149	2.75	100	0.69	0.69	3.62
0.0049	0.125	3.00	120	0.77	0.77	4.39
0.0041	0.105	3.25	140	0.94	0.94	5.33
0.0035	0.088	3.50	170	1.00	1.00	6.34
0.0029	0.074	3.75	200	1.09	1.09	7.43
0.0025	0.063	4.00	230	1.34	1.35	8.78
0.0021	0.053	4.25	270	1.71	1.72	10.50
0.00174	0.0442	4.50	325	2.14	2.15	12.65
0.00146	0.0372	4.75	400	2.72	2.73	15.38
0.00123	0.0313	5.00	450	3.37	3.38	18.76
0.000986	0.0250	5.32	500	3.97	3.99	22.75
0.000790	0.0201	5.64	635	5.64	5.66	28.41
0.000615	0.0156	6.00		6.13	6.16	34.57
0.000435	0.0110	6.50		7.22	7.25	41.82
0.000308	0.00781	7.00		10.30	10.34	52.17
0.000197	0.00500	7.65		9.50	9.54	61.71
0.000077	0.00195	9.00		10.40	10.44	72.15
0.000038	0.000977	10.00		15.80	15.87	88.02
0.000019	0.000488	11.00		7.57	7.60	95.62
0.000015	0.000375	11.38		4.36	4.38	100.00
TOTALS				99.60	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.16	0.0044	0.112
10	4.18	0.0022	0.055
16	4.80	0.0014	0.036
25	5.45	0.0009	0.023
40	6.37	0.0005	0.012
50	6.90	0.0003	0.008
60	7.53	0.0002	0.005
75	9.18	0.0001	0.002
84	9.75	0.0000	0.001
90	10.26	0.0000	0.001
95	10.92	0.0000	0.001

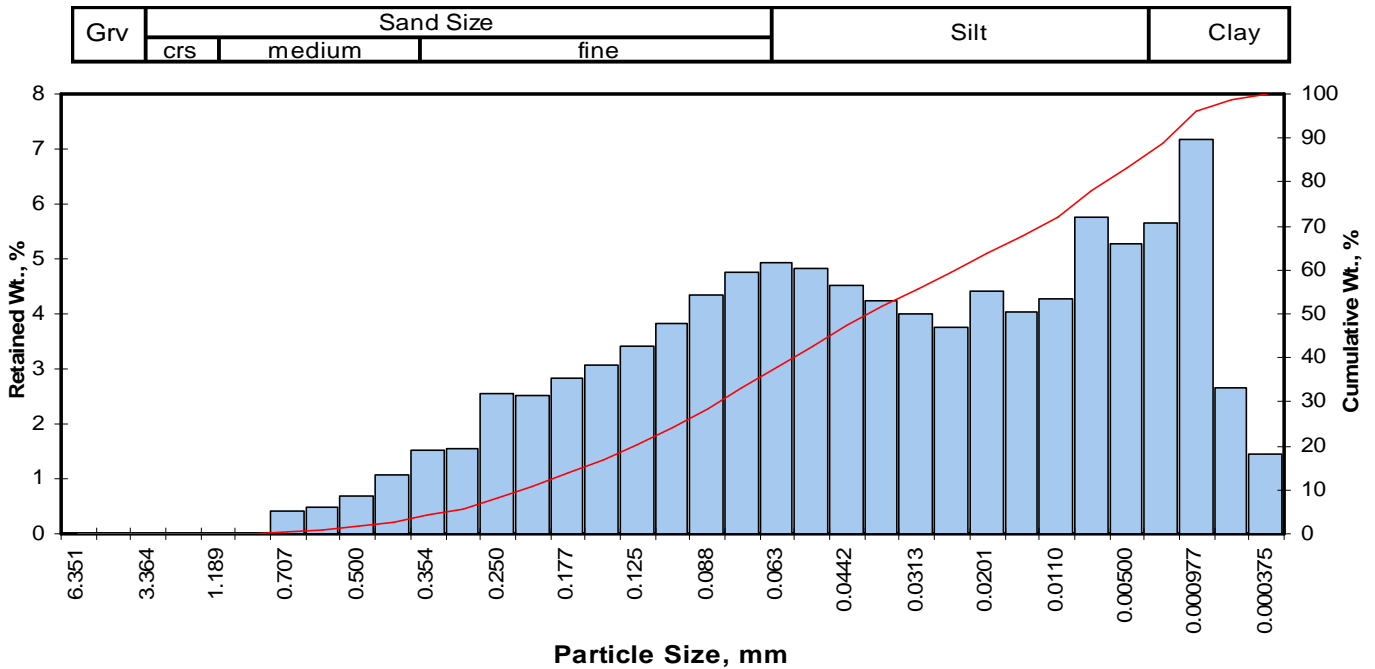
Measure	Trask	Inman	Folk-Ward
Median, phi	6.90	6.90	6.90
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.008	0.008	0.008
Mean, phi	6.34	7.27	7.15
Mean, in.	0.0005	0.0003	0.0003
Mean, mm	0.012	0.006	0.007
Sorting	3.646	2.475	2.413
Skewness	0.748	0.152	0.095
Kurtosis	0.195	0.567	0.852

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	7.43
Silt	>0.005 mm	54.27
Clay	<0.005 mm	38.29
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PC170-47.5-48.0
 Depth, ft: 47.5-48.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.01	0.01	0.01
0.0278	0.707	0.50	25	0.40	0.40	0.41
0.0234	0.595	0.75	30	0.47	0.47	0.88
0.0197	0.500	1.00	35	0.68	0.68	1.56
0.0166	0.420	1.25	40	1.08	1.08	2.64
0.0139	0.354	1.50	45	1.52	1.52	4.16
0.0117	0.297	1.75	50	1.56	1.56	5.72
0.0098	0.250	2.00	60	2.56	2.56	8.29
0.0083	0.210	2.25	70	2.53	2.53	10.82
0.0070	0.177	2.50	80	2.81	2.81	13.64
0.0059	0.149	2.75	100	3.07	3.07	16.71
0.0049	0.125	3.00	120	3.40	3.40	20.11
0.0041	0.105	3.25	140	3.83	3.84	23.95
0.0035	0.088	3.50	170	4.33	4.34	28.29
0.0029	0.074	3.75	200	4.75	4.76	33.04
0.0025	0.063	4.00	230	4.93	4.94	37.98
0.0021	0.053	4.25	270	4.81	4.82	42.80
0.00174	0.0442	4.50	325	4.50	4.51	47.30
0.00146	0.0372	4.75	400	4.23	4.24	51.54
0.00123	0.0313	5.00	450	3.99	4.00	55.54
0.000986	0.0250	5.32	500	3.77	3.78	59.31
0.000790	0.0201	5.64	635	4.42	4.43	63.74
0.000615	0.0156	6.00		4.04	4.05	67.78
0.000435	0.0110	6.50		4.27	4.28	72.06
0.000308	0.00781	7.00		5.75	5.76	77.82
0.000197	0.00500	7.65		5.27	5.28	83.10
0.000077	0.00195	9.00		5.63	5.64	88.73
0.000038	0.000977	10.00		7.17	7.18	95.91
0.000019	0.000488	11.00		2.65	2.65	98.57
0.000015	0.000375	11.38		1.43	1.43	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.63	0.0127	0.322
10	2.17	0.0088	0.222
16	2.69	0.0061	0.155
25	3.31	0.0040	0.101
40	4.10	0.0023	0.058
50	4.66	0.0016	0.040
60	5.37	0.0010	0.024
75	6.76	0.0004	0.009
84	7.86	0.0002	0.004
90	9.18	0.0001	0.002
95	9.87	0.0000	0.001

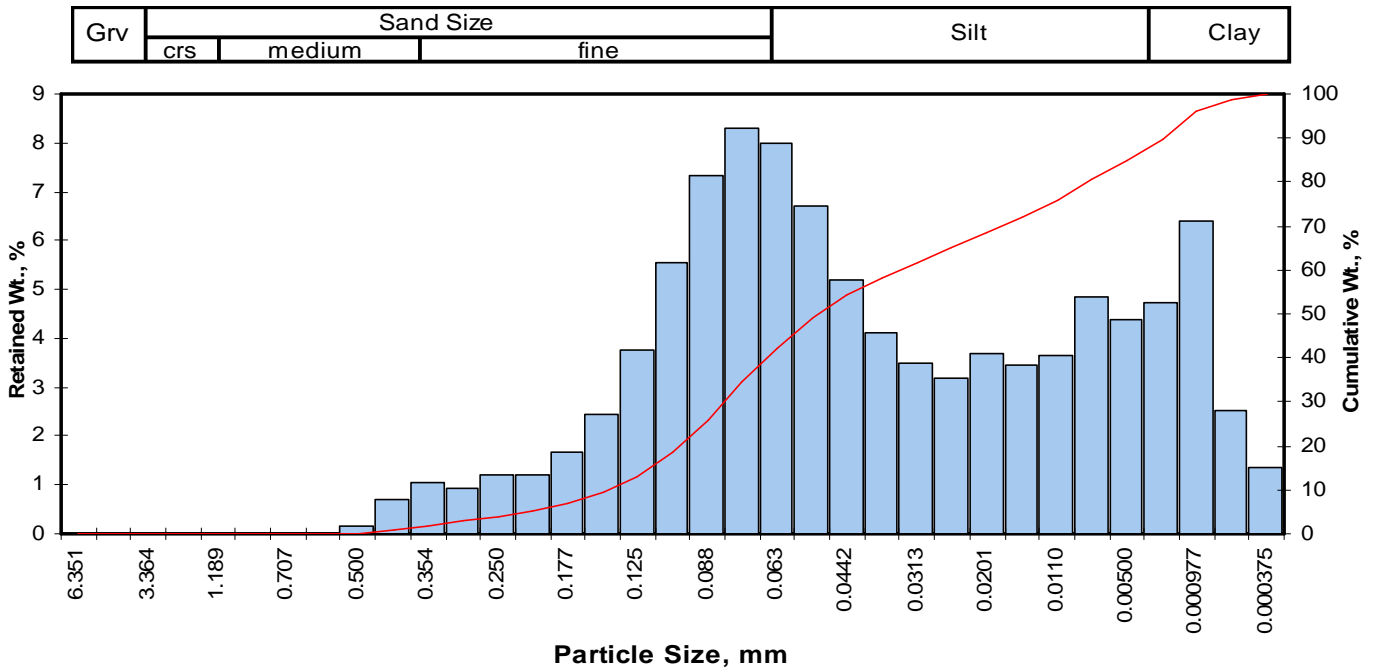
Measure	Trask	Inman	Folk-Ward
Median, phi	4.66	4.66	4.66
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.040	0.040	0.040
Mean, phi	4.18	5.28	5.07
Mean, in.	0.0022	0.0010	0.0012
Mean, mm	0.055	0.026	0.030
Sorting	3.300	2.585	2.541
Skewness	0.772	0.239	0.252
Kurtosis	0.207	0.594	0.980

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.64
Fine Sand	200	30.40
Silt	>0.005 mm	50.05
Clay	<0.005 mm	16.90
Total	Total	100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PC170-49.0-49.5
 Depth, ft: 49.0-49.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.17	0.17	0.18
0.0166	0.420	1.25	40	0.68	0.68	0.86
0.0139	0.354	1.50	45	1.06	1.06	1.92
0.0117	0.297	1.75	50	0.92	0.92	2.84
0.0098	0.250	2.00	60	1.21	1.21	4.06
0.0083	0.210	2.25	70	1.20	1.20	5.26
0.0070	0.177	2.50	80	1.67	1.67	6.93
0.0059	0.149	2.75	100	2.44	2.44	9.37
0.0049	0.125	3.00	120	3.74	3.74	13.12
0.0041	0.105	3.25	140	5.53	5.54	18.65
0.0035	0.088	3.50	170	7.33	7.34	25.99
0.0029	0.074	3.75	200	8.30	8.31	34.30
0.0025	0.063	4.00	230	8.00	8.01	42.31
0.0021	0.053	4.25	270	6.70	6.71	49.02
0.00174	0.0442	4.50	325	5.19	5.20	54.22
0.00146	0.0372	4.75	400	4.09	4.09	58.31
0.00123	0.0313	5.00	450	3.50	3.50	61.81
0.000986	0.0250	5.32	500	3.17	3.17	64.99
0.000790	0.0201	5.64	635	3.69	3.69	68.68
0.000615	0.0156	6.00		3.43	3.43	72.12
0.000435	0.0110	6.50		3.65	3.65	75.77
0.000308	0.00781	7.00		4.83	4.84	80.61
0.000197	0.00500	7.65		4.37	4.38	84.98
0.000077	0.00195	9.00		4.73	4.74	89.72
0.000038	0.000977	10.00		6.39	6.40	96.12
0.000019	0.000488	11.00		2.52	2.52	98.64
0.000015	0.000375	11.38		1.36	1.36	100.00
TOTALS				99.90	100.00	100.00

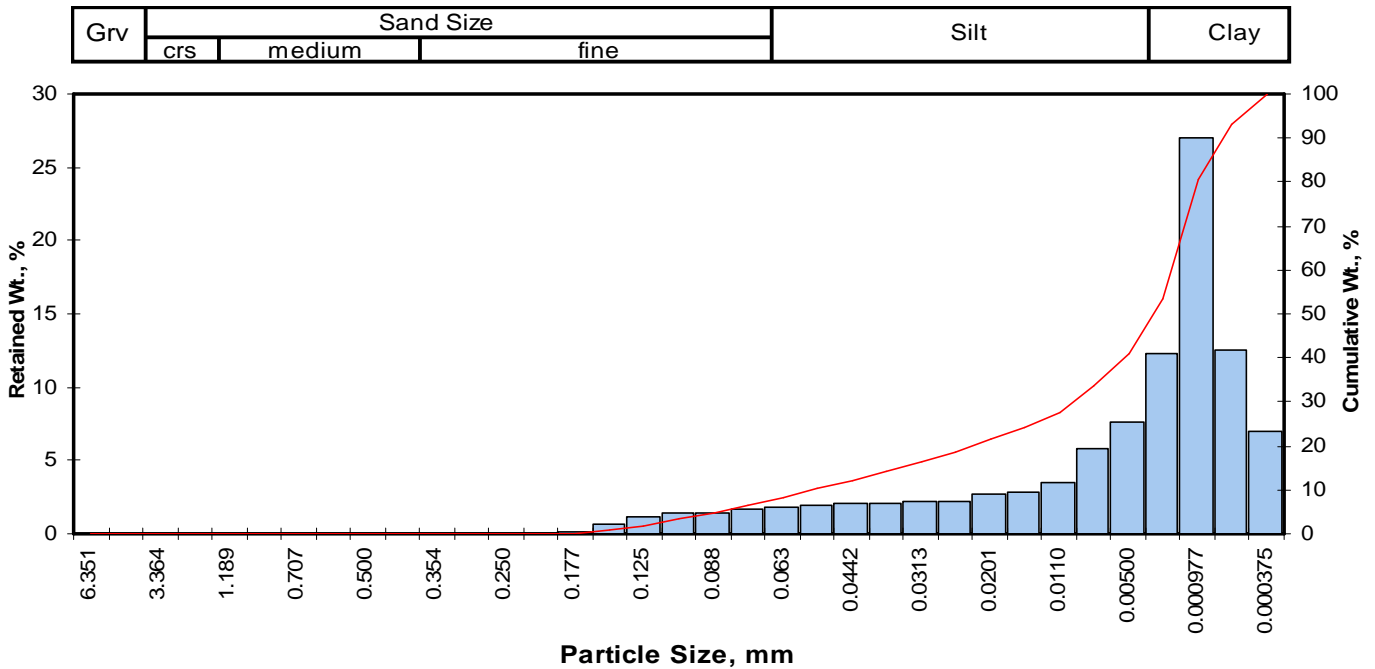
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.20	0.0086	0.218
10	2.79	0.0057	0.144
16	3.13	0.0045	0.114
25	3.47	0.0036	0.090
40	3.93	0.0026	0.066
50	4.30	0.0020	0.051
60	4.87	0.0013	0.034
75	6.39	0.0005	0.012
84	7.50	0.0002	0.006
90	9.04	0.0001	0.002
95	9.83	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.30	4.30	4.30
Median, in.	0.0020	0.0020	0.0020
Median, mm	0.051	0.051	0.051
Mean, phi	4.29	5.32	4.98
Mean, in.	0.0020	0.0010	0.0013
Mean, mm	0.051	0.025	0.032
Sorting	2.759	2.185	2.248
Skewness	0.645	0.466	0.458
Kurtosis	0.276	0.746	1.068
Grain Size Description		Silt	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.86
Fine Sand	200	33.44
Silt	>0.005 mm	50.68
Clay	<0.005 mm	15.02
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PC178-37.0-37.5
Depth, ft: 37.0-37.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.01	0.01	0.01
0.0070	0.177	2.50	80	0.13	0.13	0.14
0.0059	0.149	2.75	100	0.59	0.60	0.73
0.0049	0.125	3.00	120	1.15	1.16	1.89
0.0041	0.105	3.25	140	1.38	1.39	3.28
0.0035	0.088	3.50	170	1.47	1.48	4.77
0.0029	0.074	3.75	200	1.64	1.65	6.42
0.0025	0.063	4.00	230	1.84	1.86	8.28
0.0021	0.053	4.25	270	1.95	1.97	10.24
0.00174	0.0442	4.50	325	1.99	2.01	12.25
0.00146	0.0372	4.75	400	2.08	2.10	14.35
0.00123	0.0313	5.00	450	2.16	2.18	16.53
0.000986	0.0250	5.32	500	2.15	2.17	18.70
0.000790	0.0201	5.64	635	2.66	2.68	21.38
0.000615	0.0156	6.00		2.80	2.82	24.20
0.000435	0.0110	6.50		3.47	3.50	27.70
0.000308	0.00781	7.00		5.71	5.76	33.46
0.000197	0.00500	7.65		7.53	7.59	41.06
0.000077	0.00195	9.00		12.20	12.31	53.36
0.000038	0.000977	10.00		26.80	27.03	80.39
0.000019	0.000488	11.00		12.50	12.61	93.00
0.000015	0.000375	11.38		6.94	7.00	100.00
TOTALS				99.10	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.54	0.0034	0.086
10	4.22	0.0021	0.054
16	4.94	0.0013	0.033
25	6.11	0.0006	0.014
40	7.56	0.0002	0.005
50	8.63	0.0001	0.003
60	9.25	0.0001	0.002
75	9.80	0.0000	0.001
84	10.29	0.0000	0.001
90	10.76	0.0000	0.001
95	11.11	0.0000	0.000

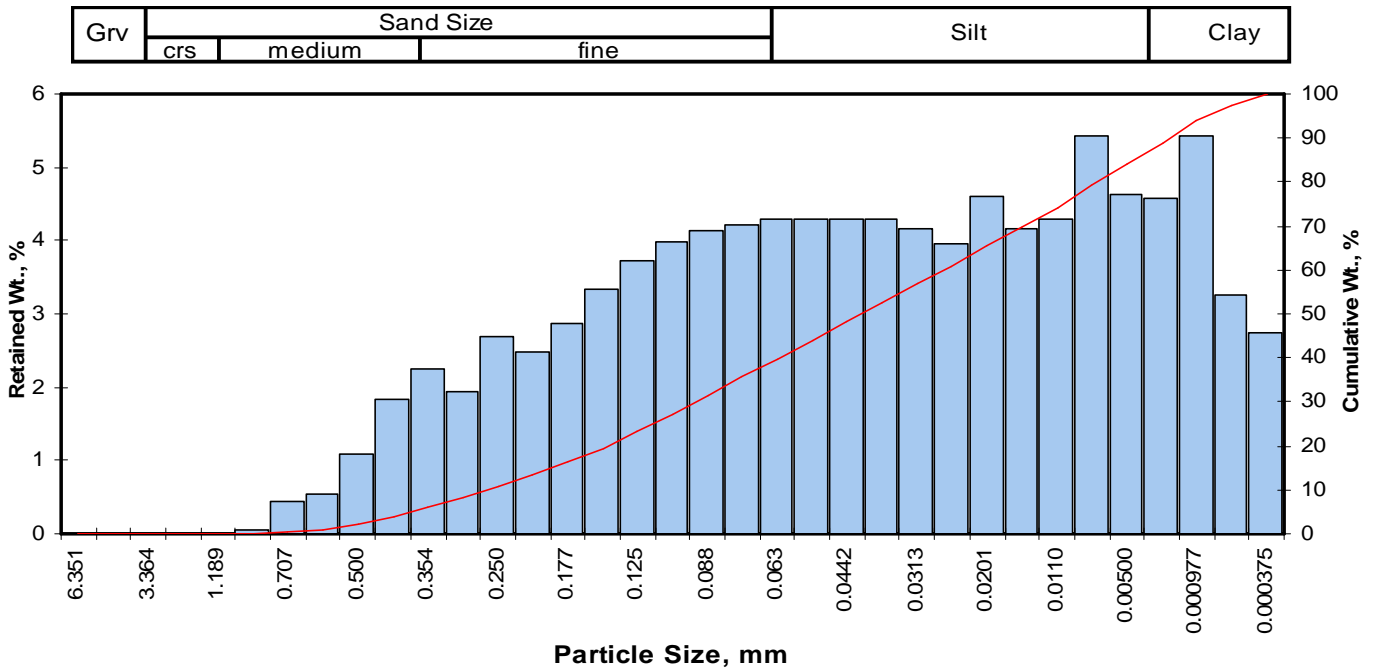
Measure	Trask	Inman	Folk-Ward
Median, phi	8.63	8.63	8.63
Median, in.	0.0001	0.0001	0.0001
Median, mm	0.003	0.003	0.003
Mean, phi	7.01	7.61	7.95
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.008	0.005	0.004
Sorting	3.588	2.673	2.484
Skewness	1.594	-0.380	-0.363
Kurtosis	0.125	0.416	0.842

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	6.42
Silt	>0.005 mm	34.64
Clay	<0.005 mm	58.94
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PC178-45.0-45.5
Depth, ft: 45.0-45.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.04	0.04	0.04
0.0278	0.707	0.50	25	0.45	0.45	0.49
0.0234	0.595	0.75	30	0.53	0.53	1.02
0.0197	0.500	1.00	35	1.08	1.08	2.11
0.0166	0.420	1.25	40	1.82	1.83	3.93
0.0139	0.354	1.50	45	2.24	2.25	6.18
0.0117	0.297	1.75	50	1.93	1.94	8.12
0.0098	0.250	2.00	60	2.68	2.69	10.81
0.0083	0.210	2.25	70	2.48	2.49	13.30
0.0070	0.177	2.50	80	2.87	2.88	16.17
0.0059	0.149	2.75	100	3.32	3.33	19.51
0.0049	0.125	3.00	120	3.72	3.73	23.24
0.0041	0.105	3.25	140	3.97	3.98	27.22
0.0035	0.088	3.50	170	4.12	4.13	31.36
0.0029	0.074	3.75	200	4.21	4.22	35.58
0.0025	0.063	4.00	230	4.27	4.28	39.87
0.0021	0.053	4.25	270	4.29	4.30	44.17
0.00174	0.0442	4.50	325	4.28	4.29	48.46
0.00146	0.0372	4.75	400	4.27	4.28	52.75
0.00123	0.0313	5.00	450	4.16	4.17	56.92
0.000986	0.0250	5.32	500	3.94	3.95	60.88
0.000790	0.0201	5.64	635	4.60	4.62	65.49
0.000615	0.0156	6.00		4.16	4.17	69.67
0.000435	0.0110	6.50		4.27	4.28	73.95
0.000308	0.00781	7.00		5.40	5.42	79.37
0.000197	0.00500	7.65		4.62	4.64	84.01
0.000077	0.00195	9.00		4.56	4.58	88.58
0.000038	0.000977	10.00		5.40	5.42	94.00
0.000019	0.000488	11.00		3.26	3.27	97.27
0.000015	0.000375	11.38		2.72	2.73	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.37	0.0152	0.387
10	1.93	0.0104	0.263
16	2.48	0.0070	0.179
25	3.11	0.0046	0.116
40	4.01	0.0024	0.062
50	4.59	0.0016	0.042
60	5.25	0.0010	0.026
75	6.60	0.0004	0.010
84	7.64	0.0002	0.005
90	9.26	0.0001	0.002
95	10.31	0.0000	0.001

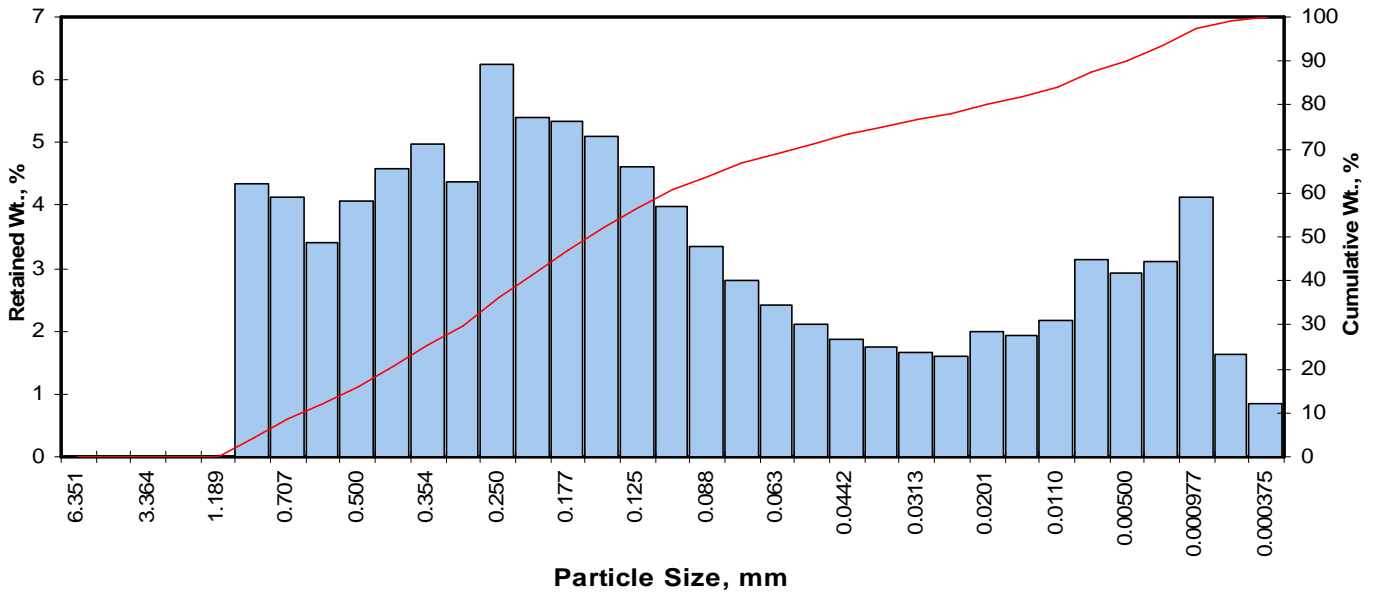
Measure	Trask	Inman	Folk-Ward
Median, phi	4.59	4.59	4.59
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.042	0.042	0.042
Mean, phi	3.99	5.06	4.91
Mean, in.	0.0025	0.0012	0.0013
Mean, mm	0.063	0.030	0.033
Sorting	3.348	2.580	2.644
Skewness	0.833	0.184	0.232
Kurtosis	0.201	0.732	1.051
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	3.93
Fine Sand	200	31.65
Silt	>0.005 mm	48.42
Clay	<0.005 mm	15.99
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PC178-55.0-55.5
 Depth, ft: 55.0-55.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	4.33	4.33	4.33
0.0278	0.707	0.50	25	4.12	4.12	8.45
0.0234	0.595	0.75	30	3.40	3.40	11.86
0.0197	0.500	1.00	35	4.08	4.08	15.94
0.0166	0.420	1.25	40	4.59	4.59	20.53
0.0139	0.354	1.50	45	4.98	4.98	25.51
0.0117	0.297	1.75	50	4.38	4.38	29.89
0.0098	0.250	2.00	60	6.23	6.23	36.13
0.0083	0.210	2.25	70	5.39	5.39	41.52
0.0070	0.177	2.50	80	5.34	5.34	46.86
0.0059	0.149	2.75	100	5.10	5.10	51.97
0.0049	0.125	3.00	120	4.62	4.62	56.59
0.0041	0.105	3.25	140	3.98	3.98	60.57
0.0035	0.088	3.50	170	3.34	3.34	63.91
0.0029	0.074	3.75	200	2.81	2.81	66.72
0.0025	0.063	4.00	230	2.41	2.41	69.13
0.0021	0.053	4.25	270	2.11	2.11	71.25
0.00174	0.0442	4.50	325	1.88	1.88	73.13
0.00146	0.0372	4.75	400	1.74	1.74	74.87
0.00123	0.0313	5.00	450	1.66	1.66	76.53
0.000986	0.0250	5.32	500	1.61	1.61	78.14
0.000790	0.0201	5.64	635	1.98	1.98	80.12
0.000615	0.0156	6.00		1.93	1.93	82.05
0.000435	0.0110	6.50		2.18	2.18	84.23
0.000308	0.00781	7.00		3.13	3.13	87.36
0.000197	0.00500	7.65		2.92	2.92	90.29
0.000077	0.00195	9.00		3.11	3.11	93.40
0.000038	0.000977	10.00		4.13	4.13	97.53
0.000019	0.000488	11.00		1.62	1.62	99.15
0.000015	0.000375	11.38		0.85	0.85	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.29	0.0322	0.818
10	0.61	0.0257	0.654
16	1.00	0.0196	0.499
25	1.47	0.0142	0.360
40	2.18	0.0087	0.221
50	2.65	0.0063	0.159
60	3.21	0.0042	0.108
75	4.77	0.0014	0.037
84	6.45	0.0005	0.011
90	7.58	0.0002	0.005
95	9.39	0.0001	0.001

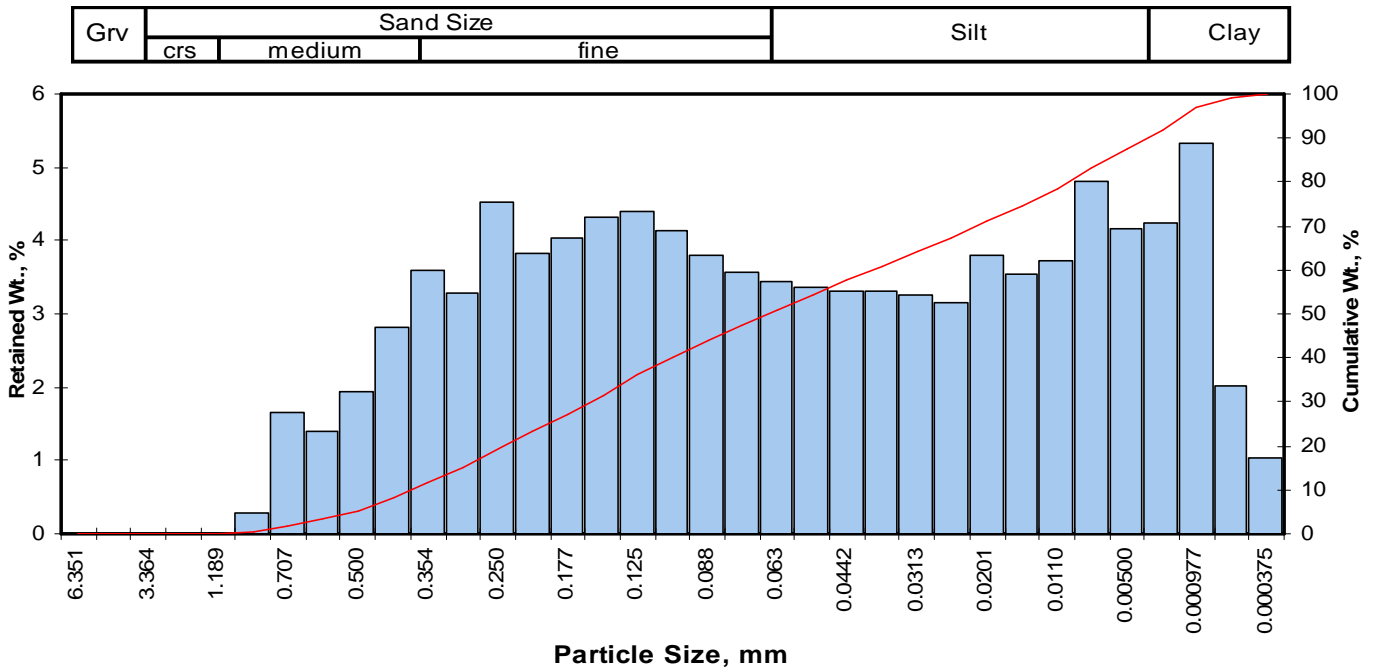
Measure	Trask	Inman	Folk-Ward
Median, phi	2.65	2.65	2.65
Median, in.	0.0063	0.0063	0.0063
Median, mm	0.159	0.159	0.159
Mean, phi	2.33	3.73	3.37
Mean, in.	0.0078	0.0030	0.0038
Mean, mm	0.198	0.076	0.097
Sorting	3.134	2.722	2.739
Skewness	0.723	0.394	0.437
Kurtosis	0.249	0.671	1.131

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	20.53
Fine Sand	200	46.19
Silt	>0.005 mm	23.56
Clay	<0.005 mm	9.71
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PC178-61.0-61.5
 Depth, ft: 61.0-61.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.28	0.28	0.28
0.0278	0.707	0.50	25	1.65	1.65	1.93
0.0234	0.595	0.75	30	1.39	1.39	3.32
0.0197	0.500	1.00	35	1.94	1.94	5.27
0.0166	0.420	1.25	40	2.82	2.82	8.09
0.0139	0.354	1.50	45	3.58	3.58	11.67
0.0117	0.297	1.75	50	3.27	3.27	14.94
0.0098	0.250	2.00	60	4.51	4.51	19.46
0.0083	0.210	2.25	70	3.82	3.82	23.28
0.0070	0.177	2.50	80	4.03	4.03	27.32
0.0059	0.149	2.75	100	4.32	4.32	31.64
0.0049	0.125	3.00	120	4.39	4.39	36.04
0.0041	0.105	3.25	140	4.13	4.13	40.17
0.0035	0.088	3.50	170	3.80	3.80	43.97
0.0029	0.074	3.75	200	3.56	3.56	47.54
0.0025	0.063	4.00	230	3.43	3.43	50.97
0.0021	0.053	4.25	270	3.36	3.36	54.33
0.00174	0.0442	4.50	325	3.31	3.31	57.65
0.00146	0.0372	4.75	400	3.30	3.30	60.95
0.00123	0.0313	5.00	450	3.25	3.25	64.20
0.000986	0.0250	5.32	500	3.15	3.15	67.36
0.000790	0.0201	5.64	635	3.79	3.79	71.15
0.000615	0.0156	6.00		3.53	3.53	74.68
0.000435	0.0110	6.50		3.72	3.72	78.41
0.000308	0.00781	7.00		4.80	4.80	83.21
0.000197	0.00500	7.65		4.16	4.16	87.38
0.000077	0.00195	9.00		4.24	4.24	91.62
0.000038	0.000977	10.00		5.31	5.32	96.94
0.000019	0.000488	11.00		2.02	2.02	98.96
0.000015	0.000375	11.38		1.04	1.04	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.97	0.0202	0.512
10	1.38	0.0151	0.383
16	1.81	0.0112	0.286
25	2.36	0.0077	0.195
40	3.24	0.0042	0.106
50	3.93	0.0026	0.066
60	4.68	0.0015	0.039
75	6.04	0.0006	0.015
84	7.12	0.0003	0.007
90	8.48	0.0001	0.003
95	9.64	0.0000	0.001

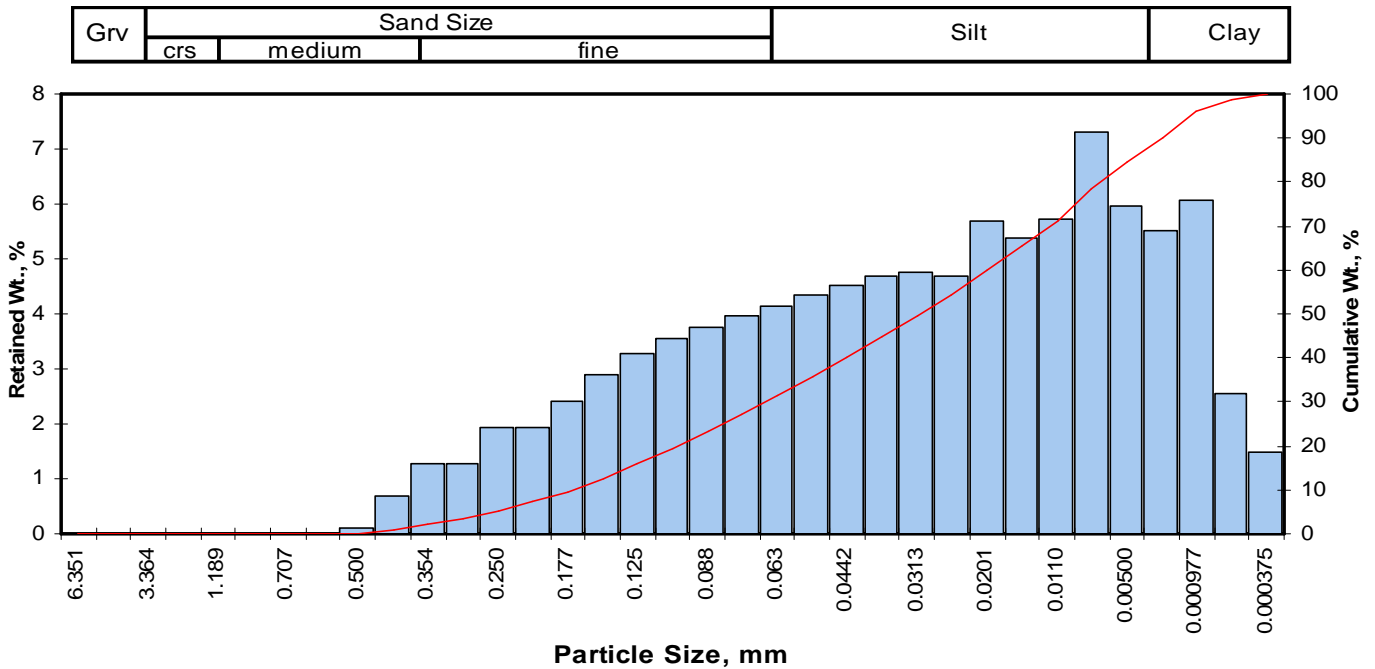
Measure	Trask	Inman	Folk-Ward
Median, phi	3.93	3.93	3.93
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.066	0.066	0.066
Mean, phi	3.25	4.47	4.29
Mean, in.	0.0041	0.0018	0.0020
Mean, mm	0.105	0.045	0.051
Sorting	3.587	2.657	2.642
Skewness	0.829	0.202	0.259
Kurtosis	0.237	0.632	0.964

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	8.09
Fine Sand	200	39.45
Silt	>0.005 mm	39.84
Clay	<0.005 mm	12.62
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PC178-72.5-73.0
Depth, ft: 72.5-73.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.12	0.12	0.12
0.0166	0.420	1.25	40	0.69	0.69	0.82
0.0139	0.354	1.50	45	1.29	1.29	2.11
0.0117	0.297	1.75	50	1.29	1.29	3.40
0.0098	0.250	2.00	60	1.92	1.92	5.32
0.0083	0.210	2.25	70	1.94	1.94	7.26
0.0070	0.177	2.50	80	2.41	2.41	9.68
0.0059	0.149	2.75	100	2.88	2.88	12.56
0.0049	0.125	3.00	120	3.27	3.27	15.84
0.0041	0.105	3.25	140	3.55	3.56	19.39
0.0035	0.088	3.50	170	3.77	3.78	23.17
0.0029	0.074	3.75	200	3.95	3.96	27.12
0.0025	0.063	4.00	230	4.14	4.15	31.27
0.0021	0.053	4.25	270	4.34	4.35	35.62
0.00174	0.0442	4.50	325	4.51	4.52	40.13
0.00146	0.0372	4.75	400	4.70	4.71	44.84
0.00123	0.0313	5.00	450	4.76	4.77	49.61
0.000986	0.0250	5.32	500	4.68	4.69	54.29
0.000790	0.0201	5.64	635	5.68	5.69	59.98
0.000615	0.0156	6.00		5.37	5.38	65.36
0.000435	0.0110	6.50		5.72	5.73	71.09
0.000308	0.00781	7.00		7.30	7.31	78.40
0.000197	0.00500	7.65		5.97	5.98	84.38
0.000077	0.00195	9.00		5.51	5.52	89.90
0.000038	0.000977	10.00		6.07	6.08	95.97
0.000019	0.000488	11.00		2.54	2.54	98.52
0.000015	0.000375	11.38		1.48	1.48	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.96	0.0101	0.257
10	2.53	0.0068	0.173
16	3.01	0.0049	0.124
25	3.62	0.0032	0.082
40	4.49	0.0017	0.044
50	5.03	0.0012	0.031
60	5.64	0.0008	0.020
75	6.77	0.0004	0.009
84	7.60	0.0002	0.005
90	9.02	0.0001	0.002
95	9.84	0.0000	0.001

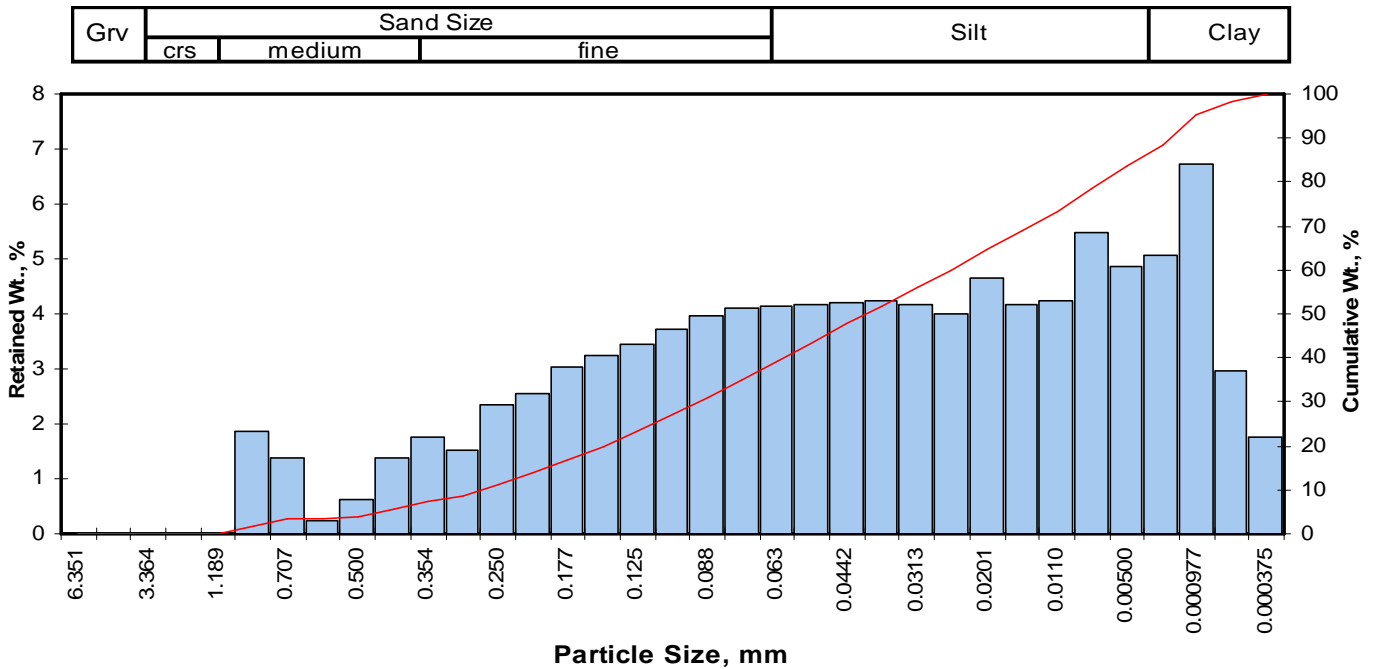
Measure	Trask	Inman	Folk-Ward
Median, phi	5.03	5.03	5.03
Median, in.	0.0012	0.0012	0.0012
Median, mm	0.031	0.031	0.031
Mean, phi	4.46	5.31	5.21
Mean, in.	0.0018	0.0010	0.0011
Mean, mm	0.045	0.025	0.027
Sorting	2.981	2.296	2.342
Skewness	0.892	0.122	0.172
Kurtosis	0.211	0.716	1.025

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.82
Fine Sand	200	26.31
Silt	>0.005 mm	57.25
Clay	<0.005 mm	15.62
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PC195-57.0-57.5
Depth, ft: 57.0-57.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	1.87	1.87	1.87
0.0278	0.707	0.50	25	1.36	1.36	3.24
0.0234	0.595	0.75	30	0.23	0.23	3.47
0.0197	0.500	1.00	35	0.62	0.62	4.09
0.0166	0.420	1.25	40	1.39	1.39	5.48
0.0139	0.354	1.50	45	1.74	1.74	7.22
0.0117	0.297	1.75	50	1.50	1.50	8.73
0.0098	0.250	2.00	60	2.33	2.33	11.06
0.0083	0.210	2.25	70	2.55	2.55	13.61
0.0070	0.177	2.50	80	3.03	3.04	16.65
0.0059	0.149	2.75	100	3.25	3.26	19.91
0.0049	0.125	3.00	120	3.43	3.44	23.34
0.0041	0.105	3.25	140	3.71	3.72	27.06
0.0035	0.088	3.50	170	3.96	3.97	31.03
0.0029	0.074	3.75	200	4.09	4.10	35.12
0.0025	0.063	4.00	230	4.14	4.15	39.27
0.0021	0.053	4.25	270	4.18	4.19	43.46
0.00174	0.0442	4.50	325	4.20	4.21	47.67
0.00146	0.0372	4.75	400	4.24	4.25	51.91
0.00123	0.0313	5.00	450	4.17	4.18	56.09
0.000986	0.0250	5.32	500	3.98	3.99	60.08
0.000790	0.0201	5.64	635	4.66	4.67	64.75
0.000615	0.0156	6.00		4.16	4.17	68.91
0.000435	0.0110	6.50		4.24	4.25	73.16
0.000308	0.00781	7.00		5.46	5.47	78.63
0.000197	0.00500	7.65		4.84	4.85	83.48
0.000077	0.00195	9.00		5.07	5.08	88.56
0.000038	0.000977	10.00		6.72	6.73	95.29
0.000019	0.000488	11.00		2.96	2.97	98.26
0.000015	0.000375	11.38		1.74	1.74	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.16	0.0176	0.446
10	1.89	0.0106	0.270
16	2.45	0.0072	0.183
25	3.11	0.0046	0.116
40	4.04	0.0024	0.061
50	4.64	0.0016	0.040
60	5.31	0.0010	0.025
75	6.67	0.0004	0.010
84	7.78	0.0002	0.005
90	9.21	0.0001	0.002
95	9.96	0.0000	0.001

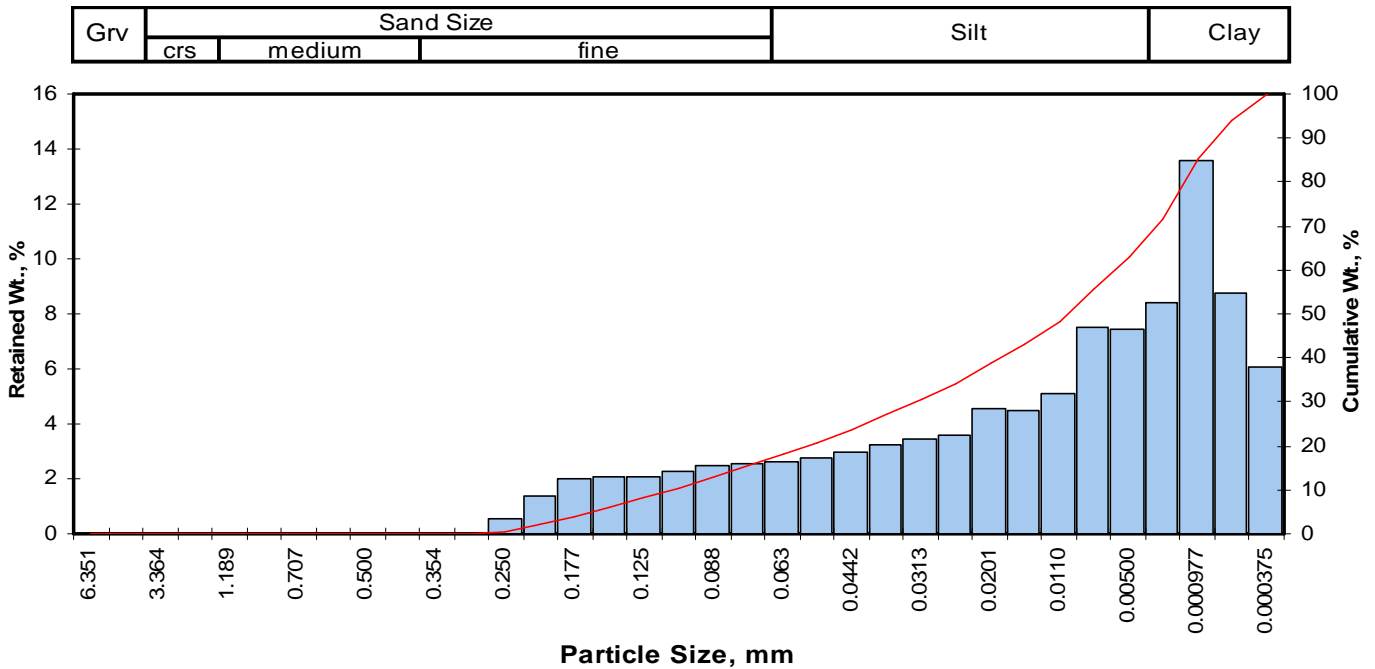
Measure	Trask	Inman	Folk-Ward
Median, phi	4.64	4.64	4.64
Median, in.	0.0016	0.0016	0.0016
Median, mm	0.040	0.040	0.040
Mean, phi	3.99	5.12	4.96
Mean, in.	0.0025	0.0011	0.0013
Mean, mm	0.063	0.029	0.032
Sorting	3.430	2.669	2.667
Skewness	0.839	0.179	0.194
Kurtosis	0.197	0.647	1.013

Grain Size Description (ASTM-USCS Scale) Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.48
Fine Sand	200	29.64
Silt	>0.005 mm	48.36
Clay	<0.005 mm	16.52
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PC195-68.5-69.0
Depth, ft: 68.5-69.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.03	0.03	0.03
0.0098	0.250	2.00	60	0.54	0.54	0.58
0.0083	0.210	2.25	70	1.40	1.41	1.99
0.0070	0.177	2.50	80	2.00	2.01	4.00
0.0059	0.149	2.75	100	2.07	2.08	6.08
0.0049	0.125	3.00	120	2.08	2.09	8.18
0.0041	0.105	3.25	140	2.28	2.30	10.47
0.0035	0.088	3.50	170	2.45	2.47	12.94
0.0029	0.074	3.75	200	2.53	2.55	15.49
0.0025	0.063	4.00	230	2.62	2.64	18.13
0.0021	0.053	4.25	270	2.75	2.77	20.89
0.00174	0.0442	4.50	325	2.92	2.94	23.83
0.00146	0.0372	4.75	400	3.19	3.21	27.04
0.00123	0.0313	5.00	450	3.44	3.46	30.51
0.000986	0.0250	5.32	500	3.58	3.60	34.11
0.000790	0.0201	5.64	635	4.51	4.54	38.65
0.000615	0.0156	6.00		4.42	4.45	43.10
0.000435	0.0110	6.50		5.05	5.08	48.19
0.000308	0.00781	7.00		7.47	7.52	55.71
0.000197	0.00500	7.65		7.39	7.44	63.14
0.000077	0.00195	9.00		8.38	8.44	71.58
0.000038	0.000977	10.00		13.50	13.59	85.17
0.000019	0.000488	11.00		8.68	8.74	93.91
0.000015	0.000375	11.38		6.05	6.09	100.00
TOTALS				99.30	100.00	100.00

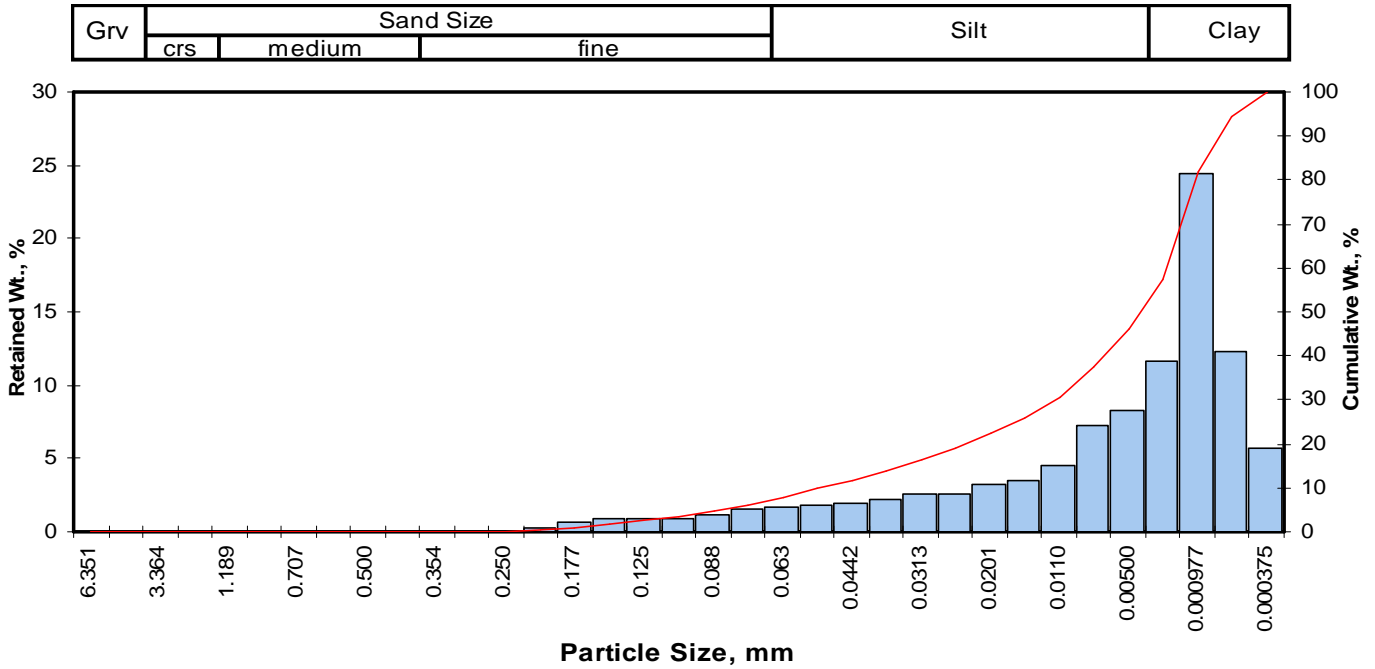
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.62	0.0064	0.163
10	3.20	0.0043	0.109
16	3.80	0.0028	0.072
25	4.59	0.0016	0.041
40	5.75	0.0007	0.019
50	6.62	0.0004	0.010
60	7.37	0.0002	0.006
75	9.25	0.0001	0.002
84	9.91	0.0000	0.001
90	10.55	0.0000	0.001
95	11.07	0.0000	0.000

Measure	Trask	Inman	Folk-Ward
Median, phi	6.62	6.62	6.62
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.010	0.010	0.010
Mean, phi	5.53	6.86	6.78
Mean, in.	0.0008	0.0003	0.0004
Mean, mm	0.022	0.009	0.009
Sorting	5.029	3.058	2.809
Skewness	0.812	0.077	0.065
Kurtosis	0.184	0.381	0.743
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	15.49
Silt	>0.005 mm	47.66
Clay	<0.005 mm	36.86
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB4-33.5-34.5
Depth, ft: 33.5-34.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.02	0.02	0.02
0.0083	0.210	2.25	70	0.22	0.22	0.24
0.0070	0.177	2.50	80	0.63	0.63	0.88
0.0059	0.149	2.75	100	0.90	0.91	1.79
0.0049	0.125	3.00	120	0.88	0.89	2.67
0.0041	0.105	3.25	140	0.90	0.91	3.58
0.0035	0.088	3.50	170	1.15	1.16	4.74
0.0029	0.074	3.75	200	1.49	1.50	6.24
0.0025	0.063	4.00	230	1.71	1.72	7.96
0.0021	0.053	4.25	270	1.77	1.78	9.74
0.00174	0.0442	4.50	325	1.90	1.91	11.66
0.00146	0.0372	4.75	400	2.24	2.26	13.91
0.00123	0.0313	5.00	450	2.53	2.55	16.46
0.000986	0.0250	5.32	500	2.59	2.61	19.07
0.000790	0.0201	5.64	635	3.26	3.28	22.35
0.000615	0.0156	6.00		3.53	3.56	25.91
0.000435	0.0110	6.50		4.47	4.50	30.41
0.000308	0.00781	7.00		7.14	7.19	37.60
0.000197	0.00500	7.65		8.25	8.31	45.91
0.000077	0.00195	9.00		11.50	11.58	57.49
0.000038	0.000977	10.00		24.30	24.47	81.96
0.000019	0.000488	11.00		12.20	12.29	94.25
0.000015	0.000375	11.38		5.71	5.75	100.00
TOTALS				99.30	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.54	0.0034	0.086
10	4.28	0.0020	0.051
16	4.95	0.0013	0.032
25	5.91	0.0007	0.017
40	7.19	0.0003	0.007
50	8.12	0.0001	0.004
60	9.10	0.0001	0.002
75	9.72	0.0000	0.001
84	10.17	0.0000	0.001
90	10.65	0.0000	0.001
95	11.05	0.0000	0.000

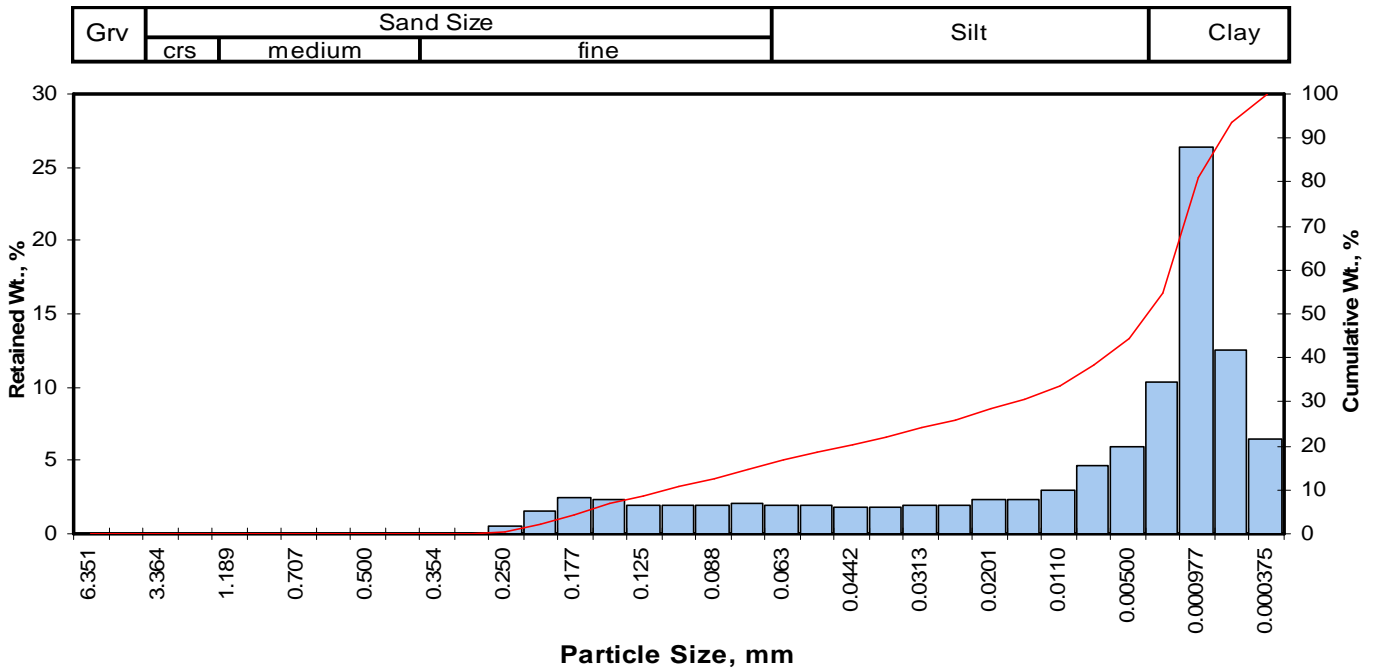
Measure	Trask	Inman	Folk-Ward
Median, phi	8.12	8.12	8.12
Median, in.	0.0001	0.0001	0.0001
Median, mm	0.004	0.004	0.004
Mean, phi	6.81	7.56	7.75
Mean, in.	0.0004	0.0002	0.0002
Mean, mm	0.009	0.005	0.005
Sorting	3.742	2.605	2.440
Skewness	1.241	-0.216	-0.218
Kurtosis	0.152	0.440	0.808

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	6.24
Silt	>0.005 mm	39.67
Clay	<0.005 mm	54.09
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB4-43.5-44.5
Depth, ft: 43.5-44.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.01	0.01	0.01
0.0098	0.250	2.00	60	0.46	0.46	0.48
0.0083	0.210	2.25	70	1.56	1.57	2.05
0.0070	0.177	2.50	80	2.39	2.41	4.46
0.0059	0.149	2.75	100	2.31	2.33	6.78
0.0049	0.125	3.00	120	1.96	1.97	8.76
0.0041	0.105	3.25	140	1.91	1.92	10.68
0.0035	0.088	3.50	170	1.98	1.99	12.68
0.0029	0.074	3.75	200	1.99	2.00	14.68
0.0025	0.063	4.00	230	1.95	1.96	16.65
0.0021	0.053	4.25	270	1.87	1.88	18.53
0.00174	0.0442	4.50	325	1.79	1.80	20.34
0.00146	0.0372	4.75	400	1.83	1.84	22.18
0.00123	0.0313	5.00	450	1.92	1.93	24.11
0.000986	0.0250	5.32	500	1.89	1.90	26.02
0.000790	0.0201	5.64	635	2.25	2.27	28.29
0.000615	0.0156	6.00		2.32	2.34	30.62
0.000435	0.0110	6.50		2.92	2.94	33.56
0.000308	0.00781	7.00		4.62	4.65	38.22
0.000197	0.00500	7.65		5.94	5.98	44.20
0.000077	0.00195	9.00		10.30	10.38	54.58
0.000038	0.000977	10.00		26.20	26.40	80.98
0.000019	0.000488	11.00		12.50	12.59	93.57
0.000015	0.000375	11.38		6.38	6.43	100.00
TOTALS				99.30	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.56	0.0067	0.170
10	3.16	0.0044	0.112
16	3.92	0.0026	0.066
25	5.15	0.0011	0.028
40	7.19	0.0003	0.007
50	8.40	0.0001	0.003
60	9.21	0.0001	0.002
75	9.77	0.0000	0.001
84	10.24	0.0000	0.001
90	10.72	0.0000	0.001
95	11.08	0.0000	0.000

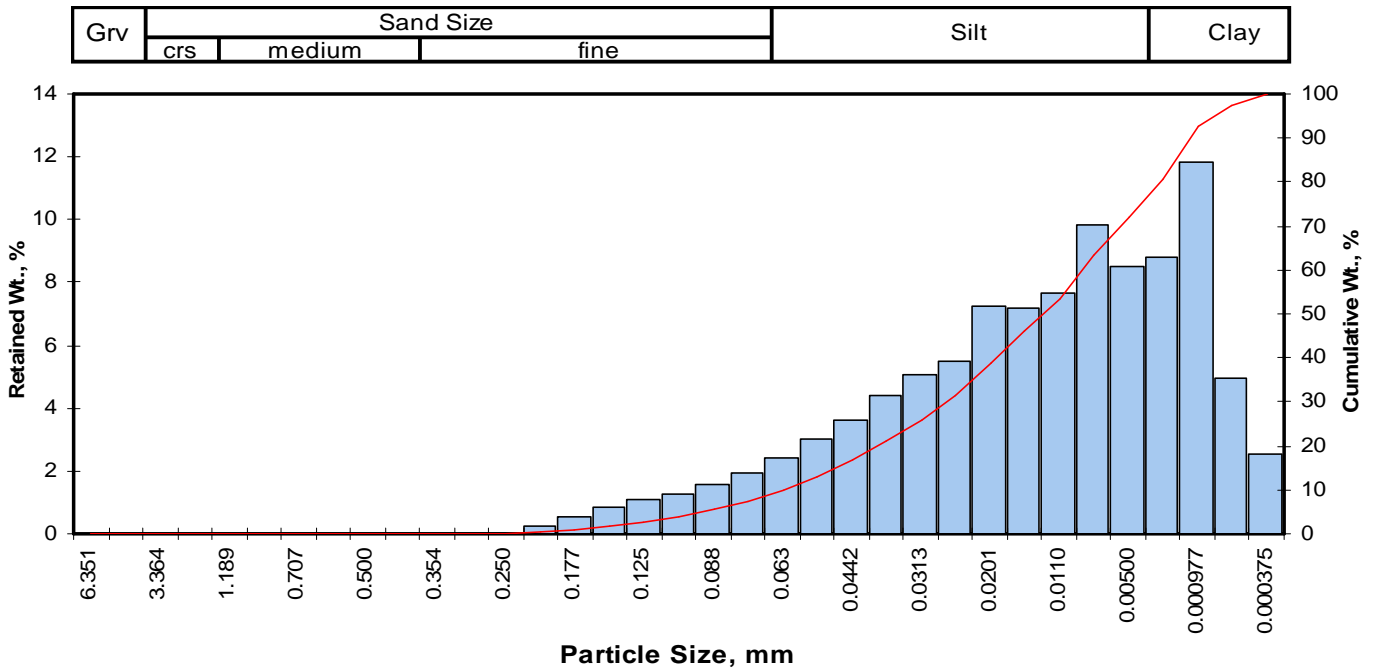
Measure	Trask	Inman	Folk-Ward
Median, phi	8.40	8.40	8.40
Median, in.	0.0001	0.0001	0.0001
Median, mm	0.003	0.003	0.003
Mean, phi	6.09	7.08	7.52
Mean, in.	0.0006	0.0003	0.0002
Mean, mm	0.015	0.007	0.005
Sorting	4.967	3.161	2.872
Skewness	1.919	-0.419	-0.395
Kurtosis	0.122	0.349	0.756

Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	14.68
Silt	>0.005 mm	29.52
Clay	<0.005 mm	55.80
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB4-57.0-58.0
Depth, ft: 57.0-58.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.03	0.03	0.03
0.0083	0.210	2.25	70	0.22	0.22	0.25
0.0070	0.177	2.50	80	0.57	0.57	0.82
0.0059	0.149	2.75	100	0.87	0.87	1.69
0.0049	0.125	3.00	120	1.07	1.07	2.77
0.0041	0.105	3.25	140	1.27	1.27	4.04
0.0035	0.088	3.50	170	1.55	1.55	5.60
0.0029	0.074	3.75	200	1.93	1.94	7.53
0.0025	0.063	4.00	230	2.41	2.42	9.95
0.0021	0.053	4.25	270	3.00	3.01	12.96
0.00174	0.0442	4.50	325	3.64	3.65	16.61
0.00146	0.0372	4.75	400	4.39	4.40	21.01
0.00123	0.0313	5.00	450	5.03	5.04	26.05
0.000986	0.0250	5.32	500	5.48	5.50	31.55
0.000790	0.0201	5.64	635	7.21	7.23	38.78
0.000615	0.0156	6.00		7.14	7.16	45.94
0.000435	0.0110	6.50		7.63	7.65	53.60
0.000308	0.00781	7.00		9.79	9.82	63.41
0.000197	0.00500	7.65		8.46	8.48	71.90
0.000077	0.00195	9.00		8.77	8.80	80.69
0.000038	0.000977	10.00		11.80	11.83	92.53
0.000019	0.000488	11.00		4.93	4.94	97.47
0.000015	0.000375	11.38		2.52	2.53	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.40	0.0037	0.094
10	4.00	0.0025	0.062
16	4.46	0.0018	0.045
25	4.95	0.0013	0.032
40	5.70	0.0008	0.019
50	6.27	0.0005	0.013
60	6.83	0.0003	0.009
75	8.12	0.0001	0.004
84	9.28	0.0001	0.002
90	9.79	0.0000	0.001
95	10.50	0.0000	0.001

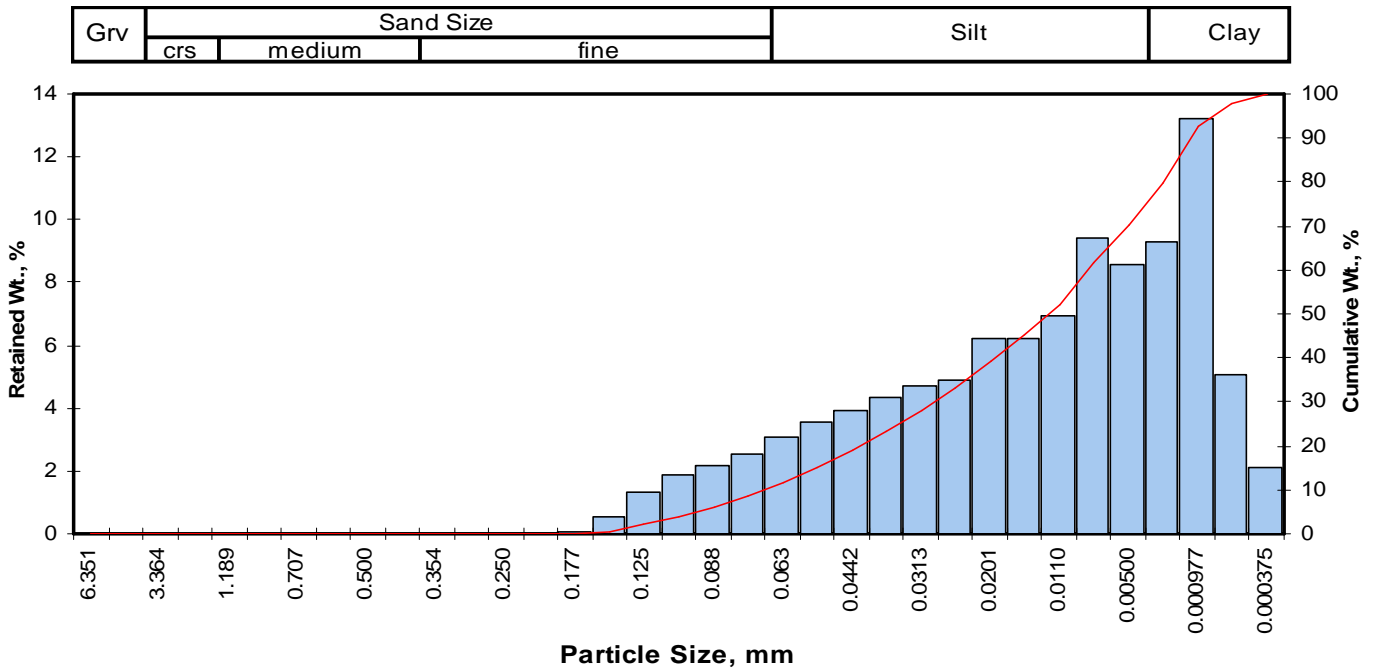
Measure	Trask	Inman	Folk-Ward
Median, phi	6.27	6.27	6.27
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.013	0.013	0.013
Mean, phi	5.80	6.87	6.67
Mean, in.	0.0007	0.0003	0.0004
Mean, mm	0.018	0.009	0.010
Sorting	3.005	2.410	2.280
Skewness	0.829	0.250	0.222
Kurtosis	0.235	0.472	0.916

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	7.53
Silt	>0.005 mm	64.37
Clay	<0.005 mm	28.10
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB4-68.0-69.0
Depth, ft: 68.0-69.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.08	0.08	0.08
0.0059	0.149	2.75	100	0.53	0.53	0.61
0.0049	0.125	3.00	120	1.33	1.33	1.94
0.0041	0.105	3.25	140	1.85	1.85	3.80
0.0035	0.088	3.50	170	2.15	2.15	5.95
0.0029	0.074	3.75	200	2.55	2.55	8.50
0.0025	0.063	4.00	230	3.08	3.09	11.59
0.0021	0.053	4.25	270	3.55	3.56	15.14
0.00174	0.0442	4.50	325	3.92	3.93	19.07
0.00146	0.0372	4.75	400	4.34	4.35	23.42
0.00123	0.0313	5.00	450	4.69	4.70	28.12
0.000986	0.0250	5.32	500	4.87	4.88	33.00
0.000790	0.0201	5.64	635	6.21	6.22	39.22
0.000615	0.0156	6.00		6.18	6.19	45.41
0.000435	0.0110	6.50		6.90	6.91	52.32
0.000308	0.00781	7.00		9.40	9.42	61.73
0.000197	0.00500	7.65		8.55	8.56	70.30
0.000077	0.00195	9.00		9.28	9.30	79.60
0.000038	0.000977	10.00		13.20	13.22	92.82
0.000019	0.000488	11.00		5.05	5.06	97.88
0.000015	0.000375	11.38		2.12	2.12	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.39	0.0038	0.095
10	3.87	0.0027	0.068
16	4.30	0.0020	0.051
25	4.83	0.0014	0.035
40	5.69	0.0008	0.019
50	6.33	0.0005	0.012
60	6.91	0.0003	0.008
75	8.33	0.0001	0.003
84	9.33	0.0001	0.002
90	9.79	0.0000	0.001
95	10.43	0.0000	0.001

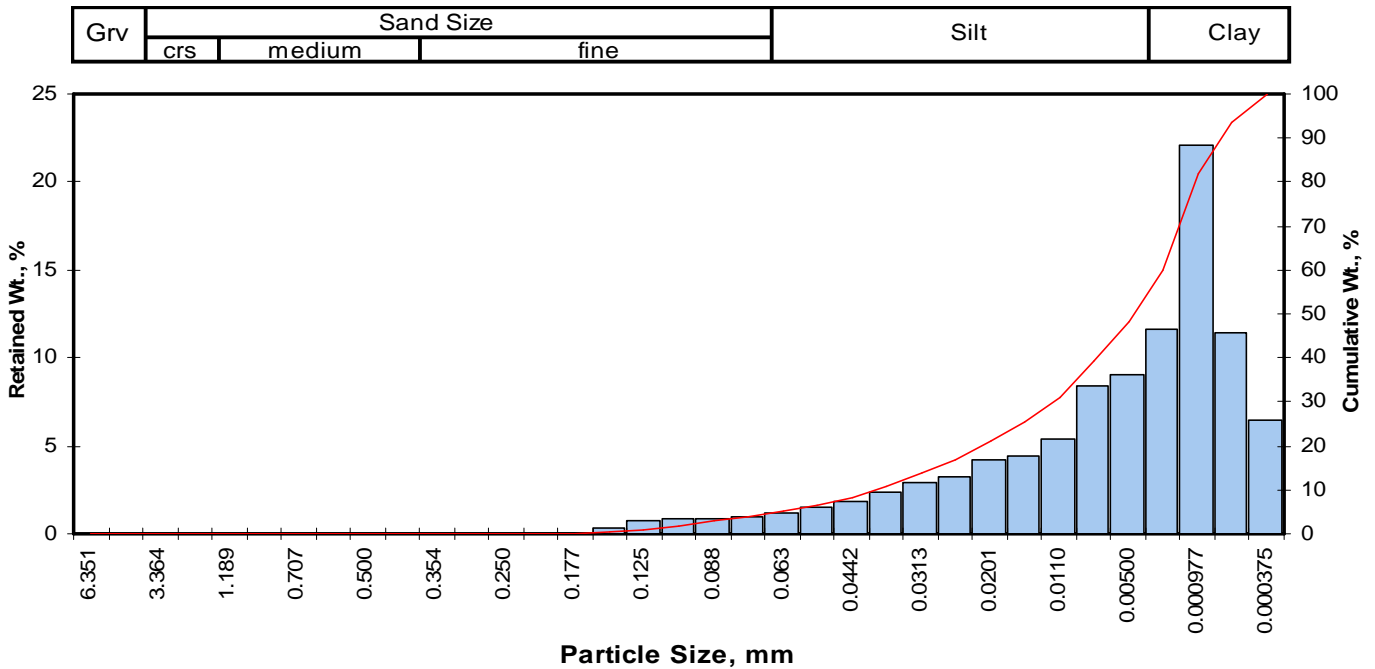
Measure	Trask	Inman	Folk-Ward
Median, phi	6.33	6.33	6.33
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.012	0.012	0.012
Mean, phi	5.71	6.82	6.66
Mean, in.	0.0008	0.0003	0.0004
Mean, mm	0.019	0.009	0.010
Sorting	3.359	2.514	2.324
Skewness	0.841	0.193	0.179
Kurtosis	0.238	0.400	0.825

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	8.50
Silt	>0.005 mm	61.80
Clay	<0.005 mm	29.70
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB4-71.0-72.0
Depth, ft: 71.0-72.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.03	0.03	0.03
0.0059	0.149	2.75	100	0.29	0.29	0.33
0.0049	0.125	3.00	120	0.71	0.71	1.04
0.0041	0.105	3.25	140	0.87	0.88	1.92
0.0035	0.088	3.50	170	0.90	0.91	2.82
0.0029	0.074	3.75	200	1.01	1.02	3.84
0.0025	0.063	4.00	230	1.21	1.22	5.06
0.0021	0.053	4.25	270	1.45	1.46	6.51
0.00174	0.0442	4.50	325	1.81	1.82	8.34
0.00146	0.0372	4.75	400	2.36	2.38	10.71
0.00123	0.0313	5.00	450	2.87	2.89	13.60
0.000986	0.0250	5.32	500	3.18	3.20	16.80
0.000790	0.0201	5.64	635	4.20	4.23	21.03
0.000615	0.0156	6.00		4.43	4.46	25.49
0.000435	0.0110	6.50		5.38	5.41	30.90
0.000308	0.00781	7.00		8.36	8.41	39.31
0.000197	0.00500	7.65		8.96	9.02	48.33
0.000077	0.00195	9.00		11.60	11.67	60.01
0.000038	0.000977	10.00		21.90	22.04	82.05
0.000019	0.000488	11.00		11.40	11.47	93.52
0.000015	0.000375	11.38		6.44	6.48	100.00
TOTALS				99.40	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.99	0.0025	0.063
10	4.68	0.0015	0.039
16	5.24	0.0010	0.026
25	5.96	0.0006	0.016
40	7.05	0.0003	0.008
50	7.84	0.0002	0.004
60	9.00	0.0001	0.002
75	9.68	0.0000	0.001
84	10.17	0.0000	0.001
90	10.69	0.0000	0.001
95	11.09	0.0000	0.000

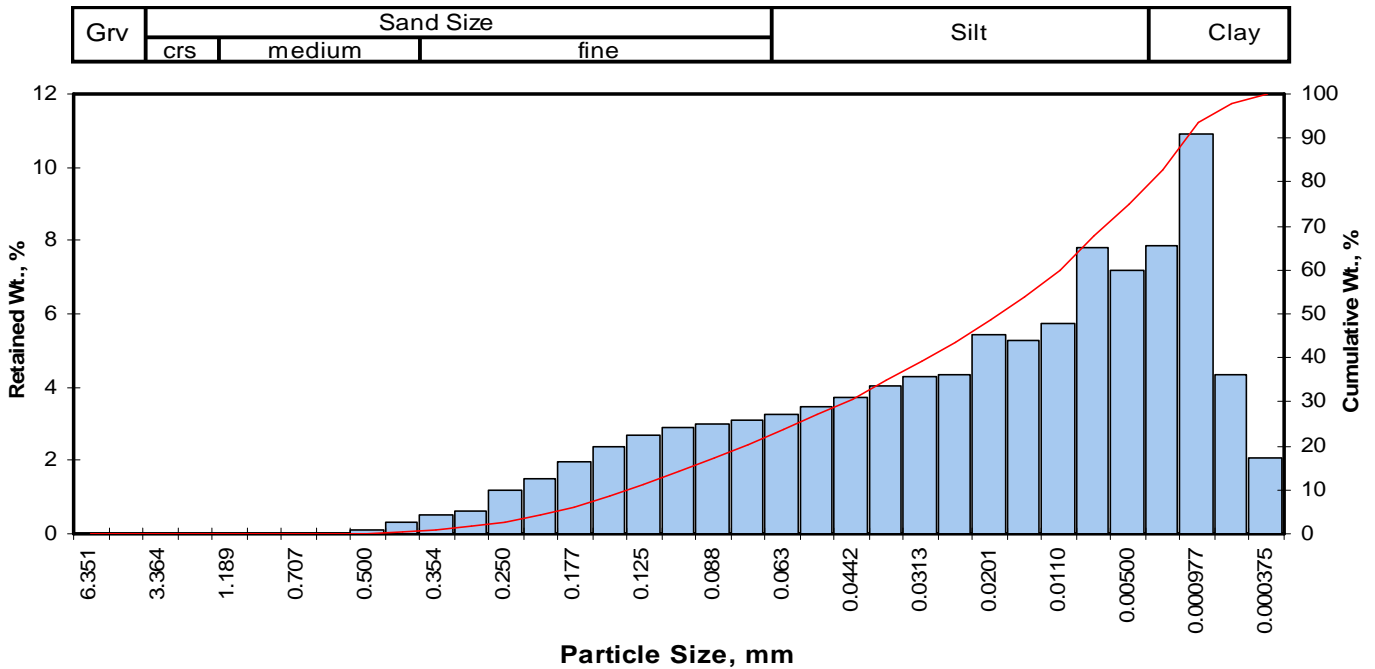
Measure	Trask	Inman	Folk-Ward
Median, phi	7.84	7.84	7.84
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.004	0.004	0.004
Mean, phi	6.86	7.71	7.75
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.009	0.005	0.005
Sorting	3.630	2.465	2.308
Skewness	1.013	-0.054	-0.069
Kurtosis	0.192	0.440	0.782

Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	3.84
Silt	>0.005 mm	44.49
Clay	<0.005 mm	51.67
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PCDB7-34.5-35.5
 Depth, ft: 34.5-35.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.08	0.08	0.09
0.0166	0.420	1.25	40	0.30	0.30	0.39
0.0139	0.354	1.50	45	0.53	0.53	0.92
0.0117	0.297	1.75	50	0.60	0.60	1.53
0.0098	0.250	2.00	60	1.19	1.19	2.72
0.0083	0.210	2.25	70	1.48	1.48	4.20
0.0070	0.177	2.50	80	1.96	1.97	6.17
0.0059	0.149	2.75	100	2.36	2.37	8.54
0.0049	0.125	3.00	120	2.67	2.68	11.21
0.0041	0.105	3.25	140	2.88	2.89	14.10
0.0035	0.088	3.50	170	3.01	3.02	17.12
0.0029	0.074	3.75	200	3.12	3.13	20.25
0.0025	0.063	4.00	230	3.27	3.28	23.53
0.0021	0.053	4.25	270	3.46	3.47	27.00
0.00174	0.0442	4.50	325	3.71	3.72	30.72
0.00146	0.0372	4.75	400	4.03	4.04	34.76
0.00123	0.0313	5.00	450	4.26	4.27	39.03
0.000986	0.0250	5.32	500	4.34	4.35	43.38
0.000790	0.0201	5.64	635	5.43	5.45	48.83
0.000615	0.0156	6.00		5.24	5.25	54.08
0.000435	0.0110	6.50		5.70	5.72	59.80
0.000308	0.00781	7.00		7.78	7.80	67.60
0.000197	0.00500	7.65		7.19	7.21	74.81
0.000077	0.00195	9.00		7.84	7.86	82.67
0.000038	0.000977	10.00		10.90	10.93	93.60
0.000019	0.000488	11.00		4.32	4.33	97.93
0.000015	0.000375	11.38		2.06	2.07	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.35	0.0077	0.196
10	2.89	0.0053	0.135
16	3.41	0.0037	0.094
25	4.11	0.0023	0.058
40	5.07	0.0012	0.030
50	5.72	0.0007	0.019
60	6.51	0.0004	0.011
75	7.68	0.0002	0.005
84	9.12	0.0001	0.002
90	9.67	0.0000	0.001
95	10.32	0.0000	0.001

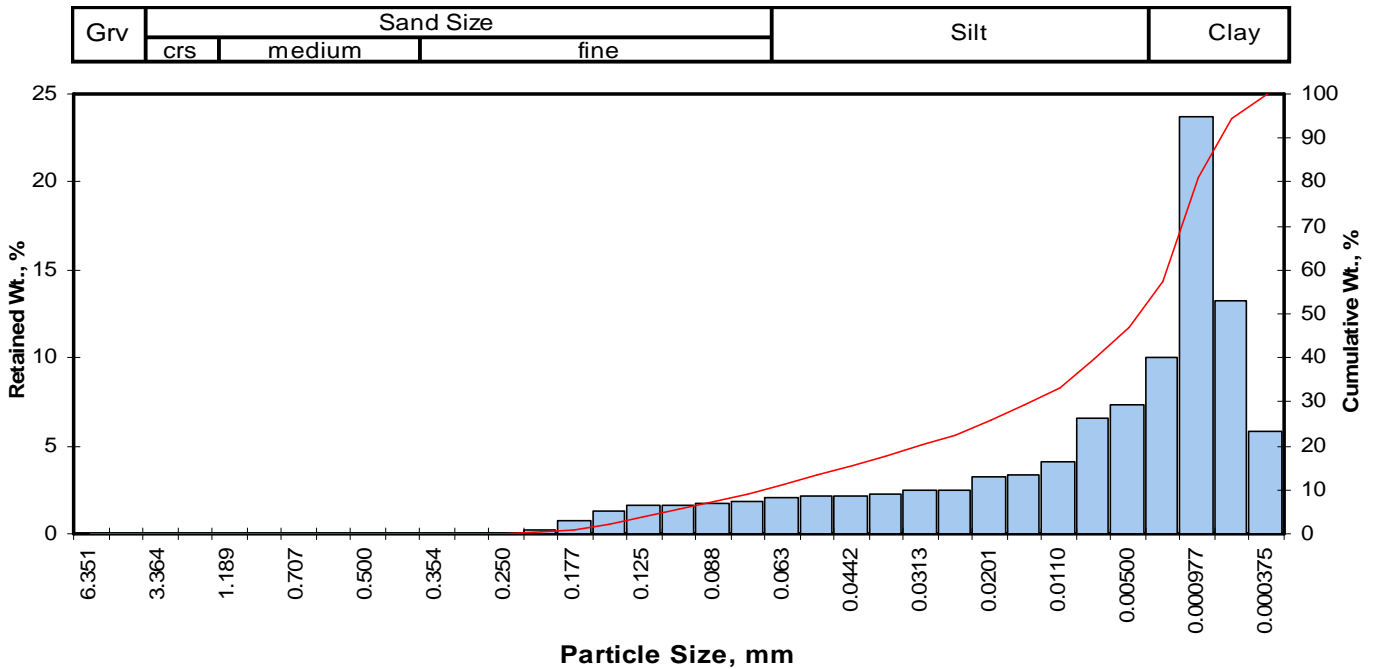
Measure	Trask	Inman	Folk-Ward
Median, phi	5.72	5.72	5.72
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.019	0.019	0.019
Mean, phi	4.99	6.26	6.08
Mean, in.	0.0012	0.0005	0.0006
Mean, mm	0.031	0.013	0.015
Sorting	3.448	2.857	2.636
Skewness	0.888	0.190	0.173
Kurtosis	0.198	0.395	0.915

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.39
Fine Sand	200	19.86
Silt	>0.005 mm	54.56
Clay	<0.005 mm	25.19
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PCDB7-43.0-44.0
 Depth, ft: 43.0-44.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.03	0.03	0.03
0.0083	0.210	2.25	70	0.24	0.24	0.27
0.0070	0.177	2.50	80	0.74	0.74	1.01
0.0059	0.149	2.75	100	1.26	1.27	2.28
0.0049	0.125	3.00	120	1.58	1.59	3.87
0.0041	0.105	3.25	140	1.65	1.66	5.53
0.0035	0.088	3.50	170	1.69	1.70	7.23
0.0029	0.074	3.75	200	1.82	1.83	9.06
0.0025	0.063	4.00	230	2.00	2.01	11.07
0.0021	0.053	4.25	270	2.11	2.12	13.19
0.00174	0.0442	4.50	325	2.16	2.17	15.36
0.00146	0.0372	4.75	400	2.27	2.28	17.65
0.00123	0.0313	5.00	450	2.42	2.43	20.08
0.000986	0.0250	5.32	500	2.50	2.51	22.59
0.000790	0.0201	5.64	635	3.20	3.22	25.81
0.000615	0.0156	6.00		3.33	3.35	29.16
0.000435	0.0110	6.50		4.06	4.08	33.24
0.000308	0.00781	7.00		6.53	6.57	39.81
0.000197	0.00500	7.65		7.29	7.33	47.14
0.000077	0.00195	9.00		9.99	10.05	57.18
0.000038	0.000977	10.00		23.60	23.73	80.91
0.000019	0.000488	11.00		13.20	13.27	94.19
0.000015	0.000375	11.38		5.78	5.81	100.00
TOTALS				99.40	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.17	0.0044	0.111
10	3.87	0.0027	0.069
16	4.57	0.0017	0.042
25	5.56	0.0008	0.021
40	7.02	0.0003	0.008
50	8.03	0.0002	0.004
60	9.12	0.0001	0.002
75	9.75	0.0000	0.001
84	10.23	0.0000	0.001
90	10.68	0.0000	0.001
95	11.05	0.0000	0.000

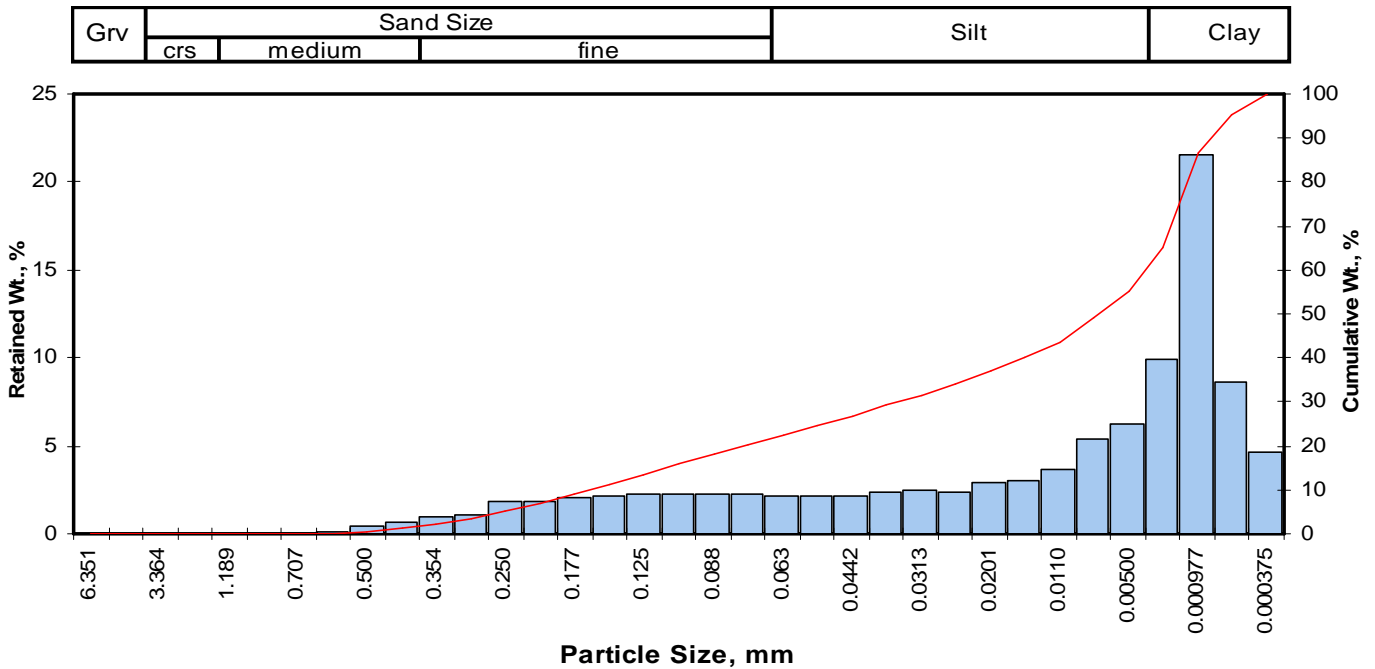
Measure	Trask	Inman	Folk-Ward
Median, phi	8.03	8.03	8.03
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.004	0.004	0.004
Mean, phi	6.48	7.40	7.61
Mean, in.	0.0004	0.0002	0.0002
Mean, mm	0.011	0.006	0.005
Sorting	4.274	2.831	2.610
Skewness	1.298	-0.222	-0.228
Kurtosis	0.148	0.392	0.771

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	9.06
Silt	>0.005 mm	38.08
Clay	<0.005 mm	52.86
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB7-48.0-49.0
Depth, ft: 48.0-49.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.01	0.01	0.01
0.0234	0.595	0.75	30	0.14	0.14	0.15
0.0197	0.500	1.00	35	0.44	0.44	0.59
0.0166	0.420	1.25	40	0.69	0.69	1.29
0.0139	0.354	1.50	45	0.97	0.98	2.26
0.0117	0.297	1.75	50	1.04	1.05	3.31
0.0098	0.250	2.00	60	1.80	1.81	5.12
0.0083	0.210	2.25	70	1.84	1.85	6.97
0.0070	0.177	2.50	80	2.06	2.07	9.04
0.0059	0.149	2.75	100	2.19	2.20	11.24
0.0049	0.125	3.00	120	2.26	2.27	13.51
0.0041	0.105	3.25	140	2.28	2.29	15.80
0.0035	0.088	3.50	170	2.27	2.28	18.08
0.0029	0.074	3.75	200	2.22	2.23	20.31
0.0025	0.063	4.00	230	2.15	2.16	22.48
0.0021	0.053	4.25	270	2.11	2.12	24.60
0.00174	0.0442	4.50	325	2.17	2.18	26.78
0.00146	0.0372	4.75	400	2.35	2.36	29.14
0.00123	0.0313	5.00	450	2.45	2.46	31.60
0.000986	0.0250	5.32	500	2.40	2.41	34.02
0.000790	0.0201	5.64	635	2.91	2.93	36.94
0.000615	0.0156	6.00		3.00	3.02	39.96
0.000435	0.0110	6.50		3.62	3.64	43.60
0.000308	0.00781	7.00		5.41	5.44	49.03
0.000197	0.00500	7.65		6.25	6.28	55.32
0.000077	0.00195	9.00		9.82	9.87	65.19
0.000038	0.000977	10.00		21.40	21.51	86.70
0.000019	0.000488	11.00		8.62	8.67	95.37
0.000015	0.000375	11.38		4.61	4.63	100.00
TOTALS				99.50	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.98	0.0100	0.253
10	2.61	0.0065	0.164
16	3.27	0.0041	0.104
25	4.30	0.0020	0.051
40	6.01	0.0006	0.016
50	7.10	0.0003	0.007
60	8.29	0.0001	0.003
75	9.46	0.0001	0.001
84	9.87	0.0000	0.001
90	10.38	0.0000	0.001
95	10.96	0.0000	0.001

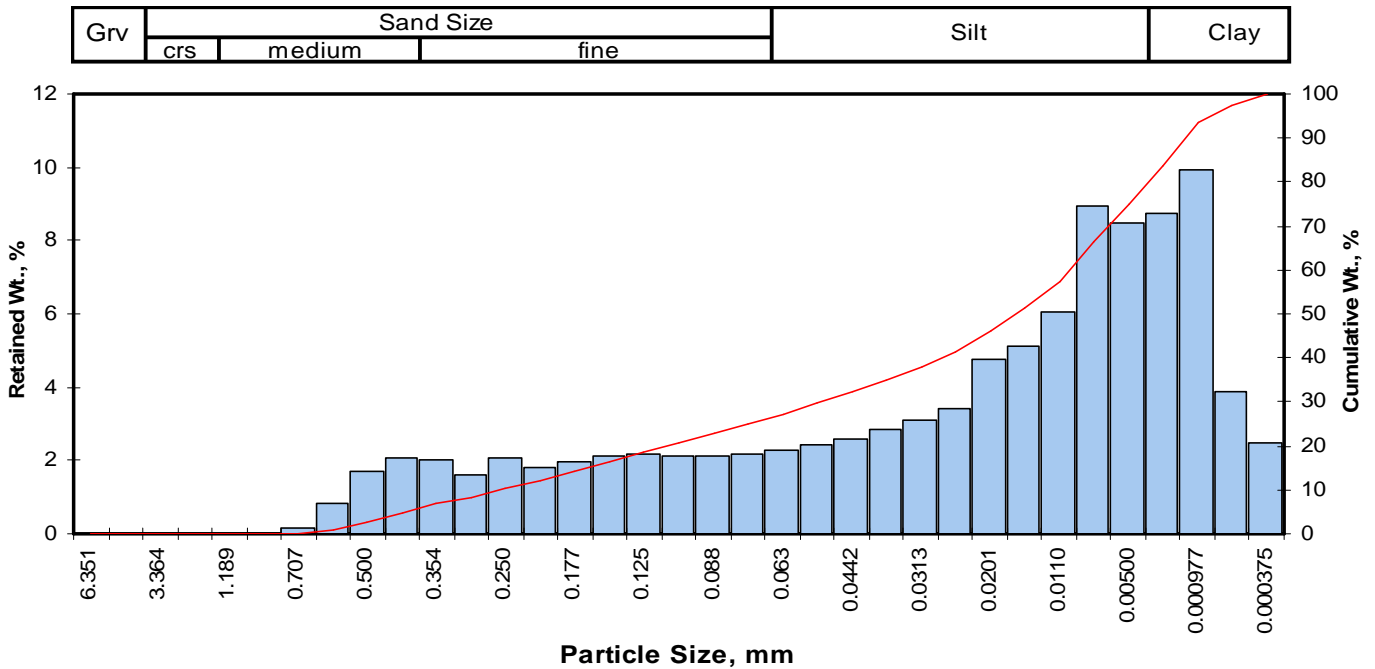
Measure	Trask	Inman	Folk-Ward
Median, phi	7.10	7.10	7.10
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.007	0.007	0.007
Mean, phi	5.26	6.57	6.75
Mean, in.	0.0010	0.0004	0.0004
Mean, mm	0.026	0.011	0.009
Sorting	5.979	3.301	3.010
Skewness	1.167	-0.159	-0.150
Kurtosis	0.152	0.359	0.713

Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.29
Fine Sand	200	19.03
Silt	>0.005 mm	35.00
Clay	<0.005 mm	44.68
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB7-54.5-55.5
Depth, ft: 54.5-55.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.15	0.15	0.15
0.0234	0.595	0.75	30	0.83	0.83	0.98
0.0197	0.500	1.00	35	1.68	1.68	2.67
0.0166	0.420	1.25	40	2.04	2.05	4.71
0.0139	0.354	1.50	45	2.01	2.02	6.73
0.0117	0.297	1.75	50	1.58	1.58	8.31
0.0098	0.250	2.00	60	2.06	2.07	10.38
0.0083	0.210	2.25	70	1.79	1.79	12.17
0.0070	0.177	2.50	80	1.94	1.95	14.12
0.0059	0.149	2.75	100	2.11	2.12	16.23
0.0049	0.125	3.00	120	2.18	2.19	18.42
0.0041	0.105	3.25	140	2.14	2.15	20.57
0.0035	0.088	3.50	170	2.10	2.11	22.67
0.0029	0.074	3.75	200	2.16	2.17	24.84
0.0025	0.063	4.00	230	2.29	2.30	27.13
0.0021	0.053	4.25	270	2.44	2.45	29.58
0.00174	0.0442	4.50	325	2.59	2.60	32.18
0.00146	0.0372	4.75	400	2.82	2.83	35.00
0.00123	0.0313	5.00	450	3.12	3.13	38.13
0.000986	0.0250	5.32	500	3.43	3.44	41.57
0.000790	0.0201	5.64	635	4.73	4.74	46.32
0.000615	0.0156	6.00		5.10	5.11	51.43
0.000435	0.0110	6.50		6.05	6.07	57.50
0.000308	0.00781	7.00		8.94	8.96	66.46
0.000197	0.00500	7.65		8.47	8.49	74.95
0.000077	0.00195	9.00		8.72	8.74	83.70
0.000038	0.000977	10.00		9.90	9.93	93.62
0.000019	0.000488	11.00		3.88	3.89	97.51
0.000015	0.000375	11.38		2.48	2.49	100.00
TOTALS				99.70	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.29	0.0161	0.410
10	1.95	0.0102	0.258
16	2.72	0.0060	0.152
25	3.77	0.0029	0.073
40	5.17	0.0011	0.028
50	5.90	0.0007	0.017
60	6.64	0.0004	0.010
75	7.65	0.0002	0.005
84	9.03	0.0001	0.002
90	9.64	0.0000	0.001
95	10.35	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	5.90	5.90	5.90
Median, in.	0.0007	0.0007	0.0007
Median, mm	0.017	0.017	0.017
Mean, phi	4.67	5.88	5.88
Mean, in.	0.0015	0.0007	0.0007
Mean, mm	0.039	0.017	0.017
Sorting	3.843	3.154	2.951
Skewness	1.140	-0.007	-0.012
Kurtosis	0.133	0.438	0.957

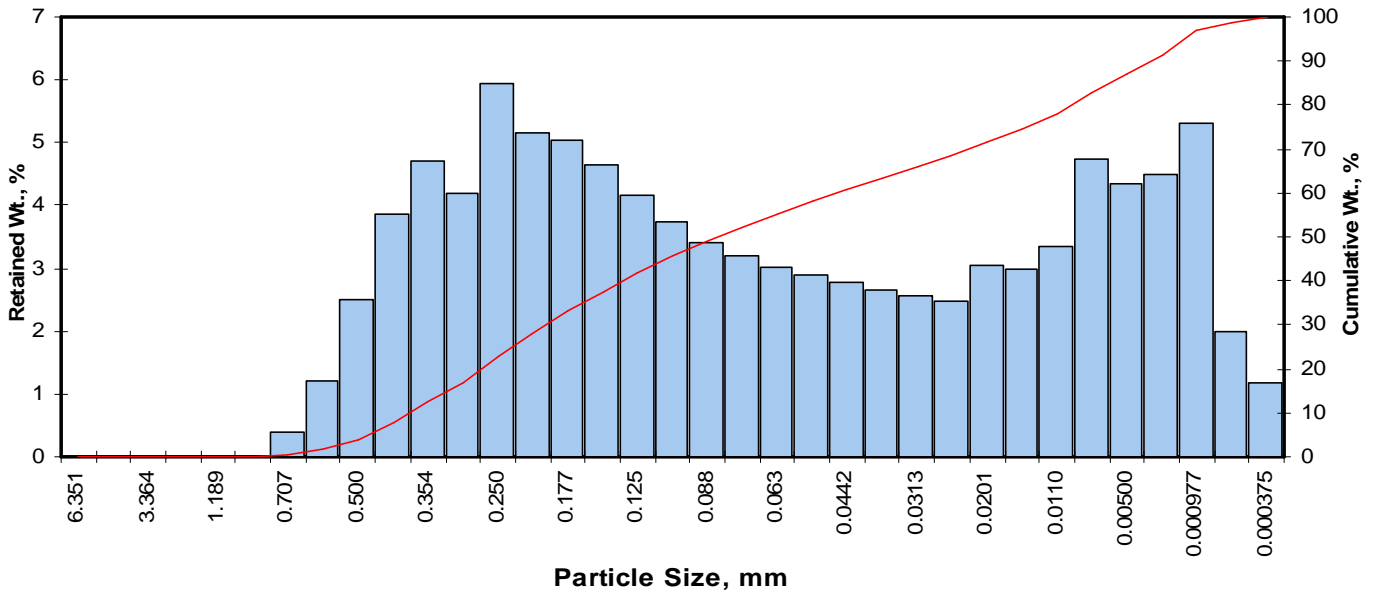
Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	4.71
Fine Sand	200	20.12
Silt	>0.005 mm	50.12
Clay	<0.005 mm	25.05
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PCDB10-33.3-33.8
 Depth, ft: 33.3-33.8

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.38	0.38	0.38
0.0234	0.595	0.75	30	1.20	1.20	1.58
0.0197	0.500	1.00	35	2.49	2.49	4.08
0.0166	0.420	1.25	40	3.87	3.87	7.95
0.0139	0.354	1.50	45	4.70	4.71	12.66
0.0117	0.297	1.75	50	4.19	4.20	16.85
0.0098	0.250	2.00	60	5.95	5.96	22.81
0.0083	0.210	2.25	70	5.16	5.17	27.97
0.0070	0.177	2.50	80	5.03	5.04	33.01
0.0059	0.149	2.75	100	4.64	4.65	37.66
0.0049	0.125	3.00	120	4.16	4.16	41.82
0.0041	0.105	3.25	140	3.75	3.75	45.57
0.0035	0.088	3.50	170	3.42	3.42	49.00
0.0029	0.074	3.75	200	3.18	3.18	52.18
0.0025	0.063	4.00	230	3.02	3.02	55.21
0.0021	0.053	4.25	270	2.89	2.89	58.10
0.00174	0.0442	4.50	325	2.76	2.76	60.86
0.00146	0.0372	4.75	400	2.64	2.64	63.51
0.00123	0.0313	5.00	450	2.55	2.55	66.06
0.000986	0.0250	5.32	500	2.47	2.47	68.53
0.000790	0.0201	5.64	635	3.04	3.04	71.58
0.000615	0.0156	6.00		2.98	2.98	74.56
0.000435	0.0110	6.50		3.36	3.36	77.92
0.000308	0.00781	7.00		4.74	4.75	82.67
0.000197	0.00500	7.65		4.35	4.36	87.02
0.000077	0.00195	9.00		4.48	4.49	91.51
0.000038	0.000977	10.00		5.31	5.32	96.83
0.000019	0.000488	11.00		2.00	2.00	98.83
0.000015	0.000375	11.38		1.17	1.17	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.06	0.0189	0.480
10	1.36	0.0153	0.390
16	1.70	0.0121	0.308
25	2.11	0.0091	0.232
40	2.89	0.0053	0.135
50	3.58	0.0033	0.084
60	4.42	0.0018	0.047
75	6.07	0.0006	0.015
84	7.20	0.0003	0.007
90	8.54	0.0001	0.003
95	9.66	0.0000	0.001

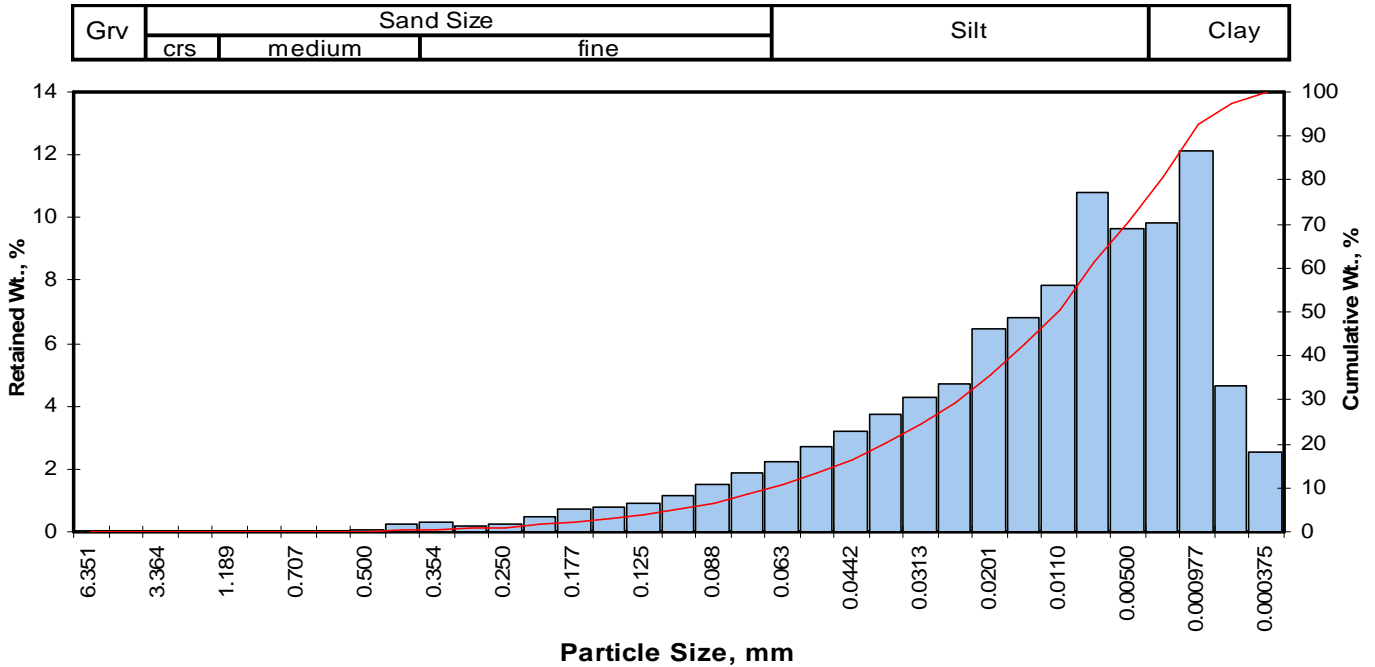
Measure	Trask	Inman	Folk-Ward
Median, phi	3.58	3.58	3.58
Median, in.	0.0033	0.0033	0.0033
Median, mm	0.084	0.084	0.084
Mean, phi	3.02	4.45	4.16
Mean, in.	0.0049	0.0018	0.0022
Mean, mm	0.124	0.046	0.056
Sorting	3.944	2.749	2.677
Skewness	0.704	0.316	0.365
Kurtosis	0.281	0.564	0.890

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
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Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	7.95
Fine Sand	200	44.23
Silt	>0.005 mm	34.84
Clay	<0.005 mm	12.98
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB10-40.4-40.9
Depth, ft: 40.4-40.9



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.06	0.06	0.06
0.0166	0.420	1.25	40	0.26	0.26	0.32
0.0139	0.354	1.50	45	0.30	0.30	0.62
0.0117	0.297	1.75	50	0.18	0.18	0.81
0.0098	0.250	2.00	60	0.26	0.26	1.07
0.0083	0.210	2.25	70	0.46	0.46	1.53
0.0070	0.177	2.50	80	0.71	0.71	2.24
0.0059	0.149	2.75	100	0.81	0.81	3.05
0.0049	0.125	3.00	120	0.91	0.91	3.96
0.0041	0.105	3.25	140	1.14	1.14	5.10
0.0035	0.088	3.50	170	1.48	1.48	6.59
0.0029	0.074	3.75	200	1.85	1.85	8.44
0.0025	0.063	4.00	230	2.25	2.25	10.70
0.0021	0.053	4.25	270	2.70	2.71	13.40
0.00174	0.0442	4.50	325	3.18	3.19	16.59
0.00146	0.0372	4.75	400	3.74	3.75	20.34
0.00123	0.0313	5.00	450	4.26	4.27	24.61
0.000986	0.0250	5.32	500	4.70	4.71	29.32
0.000790	0.0201	5.64	635	6.42	6.43	35.75
0.000615	0.0156	6.00		6.79	6.80	42.56
0.000435	0.0110	6.50		7.81	7.83	50.38
0.000308	0.00781	7.00		10.80	10.82	61.21
0.000197	0.00500	7.65		9.63	9.65	70.86
0.000077	0.00195	9.00		9.81	9.83	80.69
0.000038	0.000977	10.00		12.10	12.13	92.81
0.000019	0.000488	11.00		4.63	4.64	97.45
0.000015	0.000375	11.38		2.54	2.55	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	3.23	0.0042	0.107
10	3.92	0.0026	0.066
16	4.45	0.0018	0.046
25	5.03	0.0012	0.031
40	5.86	0.0007	0.017
50	6.48	0.0004	0.011
60	6.94	0.0003	0.008
75	8.22	0.0001	0.003
84	9.27	0.0001	0.002
90	9.77	0.0000	0.001
95	10.47	0.0000	0.001

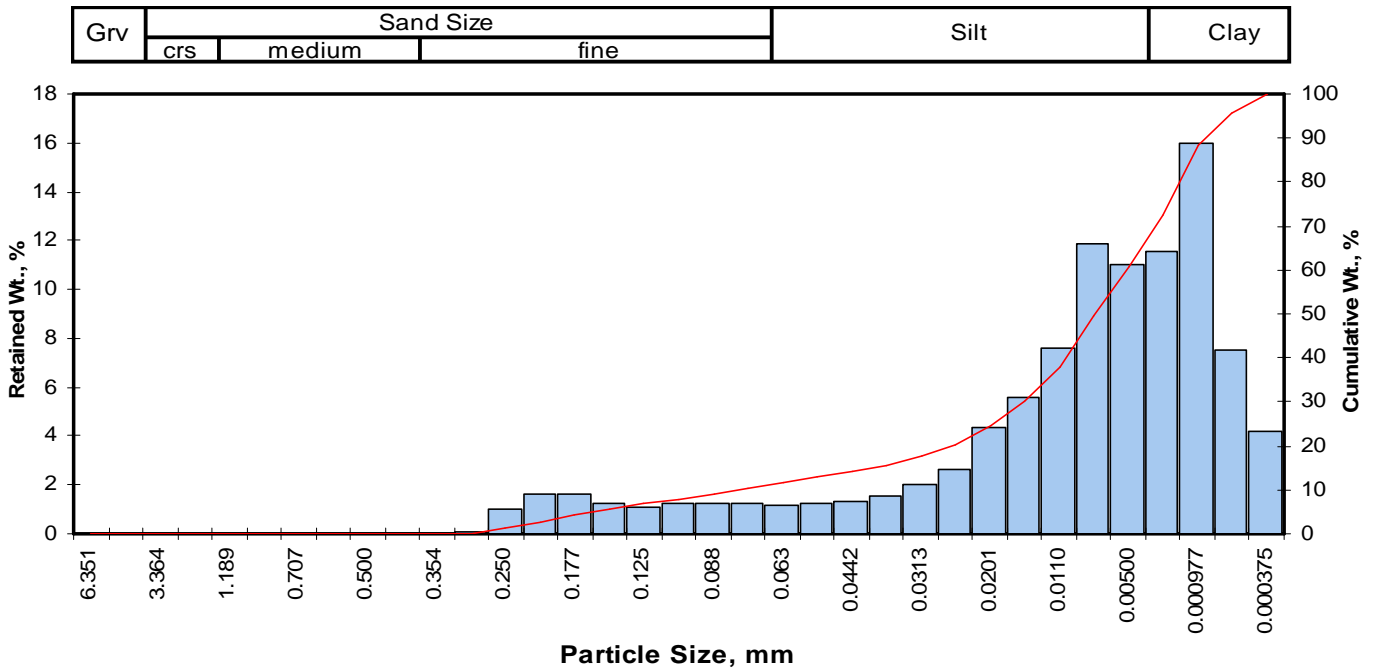
Measure	Trask	Inman	Folk-Ward
Median, phi	6.48	6.48	6.48
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.011	0.011	0.011
Mean, phi	5.88	6.86	6.73
Mean, in.	0.0007	0.0003	0.0004
Mean, mm	0.017	0.009	0.009
Sorting	3.020	2.410	2.302
Skewness	0.904	0.161	0.132
Kurtosis	0.211	0.503	0.931

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.32
Fine Sand	200	8.12
Silt	>0.005 mm	62.42
Clay	<0.005 mm	29.14
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PCDB10-58.2-58.7
 Depth, ft: 58.2-58.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.11	0.11	0.12
0.0098	0.250	2.00	60	0.97	0.97	1.09
0.0083	0.210	2.25	70	1.65	1.66	2.75
0.0070	0.177	2.50	80	1.64	1.65	4.40
0.0059	0.149	2.75	100	1.23	1.24	5.63
0.0049	0.125	3.00	120	1.09	1.10	6.73
0.0041	0.105	3.25	140	1.21	1.22	7.94
0.0035	0.088	3.50	170	1.25	1.26	9.20
0.0029	0.074	3.75	200	1.20	1.21	10.41
0.0025	0.063	4.00	230	1.18	1.19	11.59
0.0021	0.053	4.25	270	1.21	1.22	12.81
0.00174	0.0442	4.50	325	1.30	1.31	14.12
0.00146	0.0372	4.75	400	1.55	1.56	15.67
0.00123	0.0313	5.00	450	1.99	2.00	17.67
0.000986	0.0250	5.32	500	2.60	2.61	20.29
0.000790	0.0201	5.64	635	4.29	4.31	24.60
0.000615	0.0156	6.00		5.59	5.62	30.22
0.000435	0.0110	6.50		7.57	7.61	37.83
0.000308	0.00781	7.00		11.80	11.86	49.69
0.000197	0.00500	7.65		11.00	11.06	60.74
0.000077	0.00195	9.00		11.50	11.56	72.30
0.000038	0.000977	10.00		15.90	15.98	88.28
0.000019	0.000488	11.00		7.52	7.56	95.84
0.000015	0.000375	11.38		4.14	4.16	100.00
TOTALS				99.50	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.62	0.0064	0.162
10	3.67	0.0031	0.079
16	4.79	0.0014	0.036
25	5.67	0.0008	0.020
40	6.59	0.0004	0.010
50	7.02	0.0003	0.008
60	7.60	0.0002	0.005
75	9.17	0.0001	0.002
84	9.73	0.0000	0.001
90	10.23	0.0000	0.001
95	10.89	0.0000	0.001

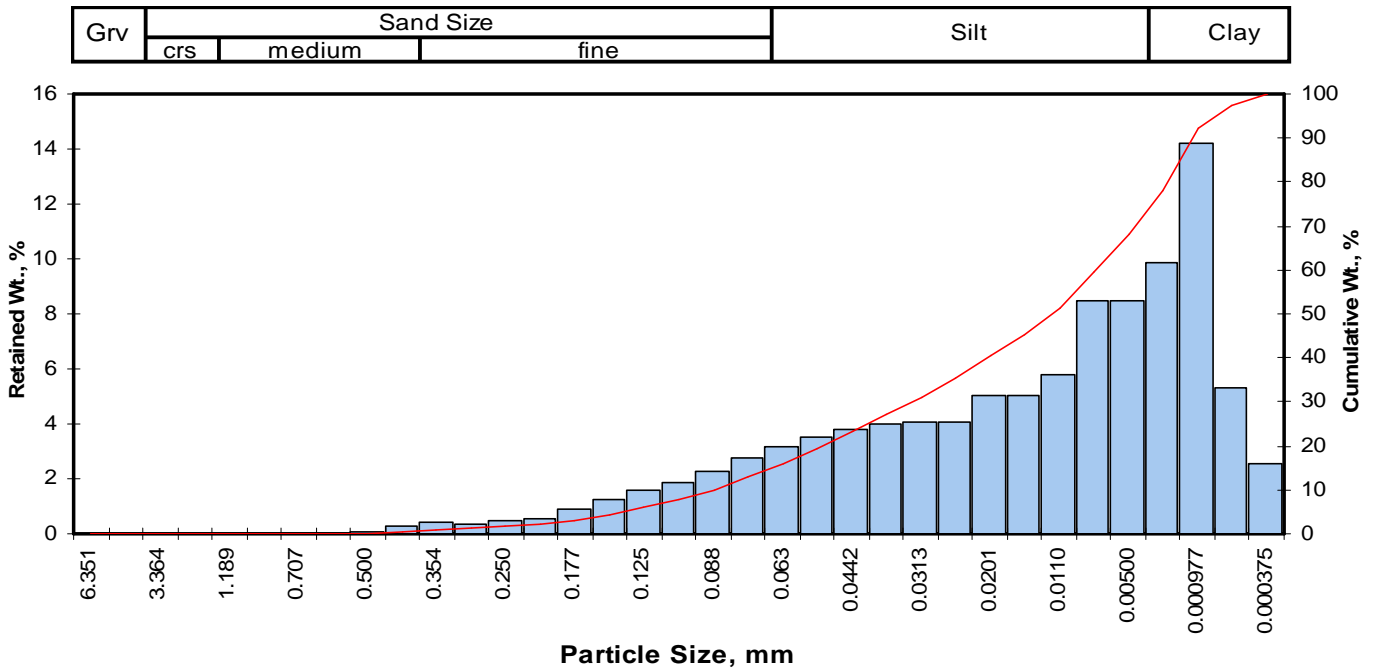
Measure	Trask	Inman	Folk-Ward
Median, phi	7.02	7.02	7.02
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.008	0.008	0.008
Mean, phi	6.54	7.26	7.18
Mean, in.	0.0004	0.0003	0.0003
Mean, mm	0.011	0.007	0.007
Sorting	3.367	2.471	2.488
Skewness	0.758	0.098	0.017
Kurtosis	0.115	0.673	0.967

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	10.41
Silt	>0.005 mm	50.33
Clay	<0.005 mm	39.26
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB10-68.5-69.0
Depth, ft: 68.5-69.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.04	0.04	0.05
0.0166	0.420	1.25	40	0.26	0.26	0.31
0.0139	0.354	1.50	45	0.44	0.44	0.75
0.0117	0.297	1.75	50	0.36	0.36	1.11
0.0098	0.250	2.00	60	0.48	0.48	1.59
0.0083	0.210	2.25	70	0.58	0.58	2.17
0.0070	0.177	2.50	80	0.91	0.91	3.08
0.0059	0.149	2.75	100	1.25	1.25	4.34
0.0049	0.125	3.00	120	1.55	1.55	5.89
0.0041	0.105	3.25	140	1.85	1.85	7.74
0.0035	0.088	3.50	170	2.25	2.26	10.00
0.0029	0.074	3.75	200	2.72	2.73	12.73
0.0025	0.063	4.00	230	3.16	3.17	15.89
0.0021	0.053	4.25	270	3.50	3.51	19.40
0.00174	0.0442	4.50	325	3.75	3.76	23.16
0.00146	0.0372	4.75	400	3.97	3.98	27.14
0.00123	0.0313	5.00	450	4.08	4.09	31.23
0.000986	0.0250	5.32	500	4.06	4.07	35.30
0.000790	0.0201	5.64	635	5.03	5.04	40.34
0.000615	0.0156	6.00		5.01	5.02	45.37
0.000435	0.0110	6.50		5.75	5.76	51.13
0.000308	0.00781	7.00		8.43	8.45	59.58
0.000197	0.00500	7.65		8.43	8.45	68.03
0.000077	0.00195	9.00		9.84	9.86	77.90
0.000038	0.000977	10.00		14.20	14.23	92.13
0.000019	0.000488	11.00		5.32	5.33	97.46
0.000015	0.000375	11.38		2.53	2.54	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.86	0.0054	0.138
10	3.50	0.0035	0.088
16	4.01	0.0024	0.062
25	4.62	0.0016	0.041
40	5.62	0.0008	0.020
50	6.40	0.0005	0.012
60	7.03	0.0003	0.008
75	8.60	0.0001	0.003
84	9.43	0.0001	0.001
90	9.85	0.0000	0.001
95	10.54	0.0000	0.001

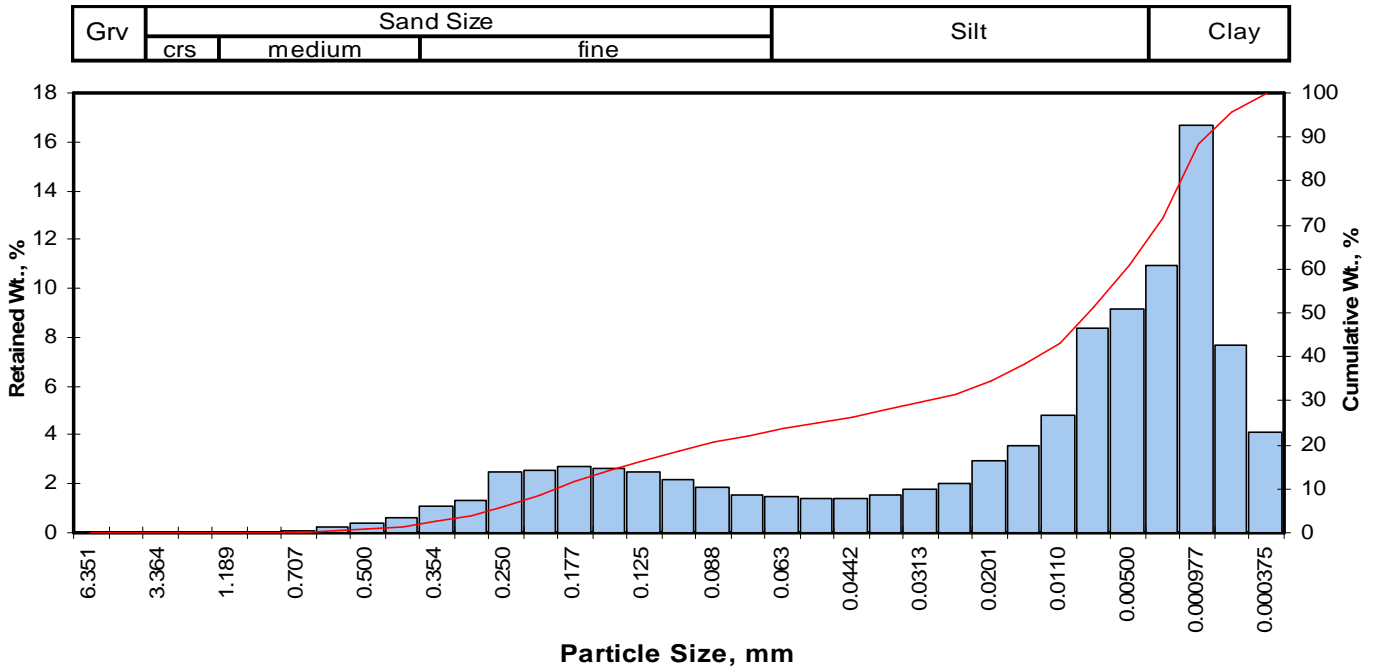
Measure	Trask	Inman	Folk-Ward
Median, phi	6.40	6.40	6.40
Median, in.	0.0005	0.0005	0.0005
Median, mm	0.012	0.012	0.012
Mean, phi	5.53	6.72	6.61
Mean, in.	0.0009	0.0004	0.0004
Mean, mm	0.022	0.009	0.010
Sorting	3.982	2.711	2.519
Skewness	0.866	0.117	0.097
Kurtosis	0.219	0.417	0.790

Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.31
Fine Sand	200	12.42
Silt	>0.005 mm	55.31
Clay	<0.005 mm	31.97
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PCDB10-77.8-78.3
 Depth, ft: 77.8-78.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.05	0.05	0.05
0.0234	0.595	0.75	30	0.25	0.25	0.30
0.0197	0.500	1.00	35	0.40	0.40	0.70
0.0166	0.420	1.25	40	0.62	0.62	1.33
0.0139	0.354	1.50	45	1.07	1.07	2.40
0.0117	0.297	1.75	50	1.31	1.31	3.72
0.0098	0.250	2.00	60	2.45	2.46	6.17
0.0083	0.210	2.25	70	2.53	2.54	8.71
0.0070	0.177	2.50	80	2.70	2.71	11.42
0.0059	0.149	2.75	100	2.65	2.66	14.08
0.0049	0.125	3.00	120	2.45	2.46	16.54
0.0041	0.105	3.25	140	2.14	2.15	18.69
0.0035	0.088	3.50	170	1.82	1.83	20.52
0.0029	0.074	3.75	200	1.58	1.59	22.10
0.0025	0.063	4.00	230	1.45	1.46	23.56
0.0021	0.053	4.25	270	1.39	1.40	24.96
0.00174	0.0442	4.50	325	1.40	1.41	26.36
0.00146	0.0372	4.75	400	1.53	1.54	27.90
0.00123	0.0313	5.00	450	1.74	1.75	29.64
0.000986	0.0250	5.32	500	2.00	2.01	31.65
0.000790	0.0201	5.64	635	2.94	2.95	34.60
0.000615	0.0156	6.00		3.55	3.56	38.17
0.000435	0.0110	6.50		4.82	4.84	43.00
0.000308	0.00781	7.00		8.38	8.41	51.42
0.000197	0.00500	7.65		9.14	9.17	60.59
0.000077	0.00195	9.00		10.90	10.94	71.53
0.000038	0.000977	10.00		16.60	16.66	88.20
0.000019	0.000488	11.00		7.65	7.68	95.87
0.000015	0.000375	11.38		4.11	4.13	100.00
TOTALS				99.60	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.88	0.0107	0.272
10	2.37	0.0076	0.194
16	2.94	0.0051	0.130
25	4.26	0.0021	0.052
40	6.19	0.0005	0.014
50	6.92	0.0003	0.008
60	7.60	0.0002	0.005
75	9.21	0.0001	0.002
84	9.75	0.0000	0.001
90	10.24	0.0000	0.001
95	10.89	0.0000	0.001

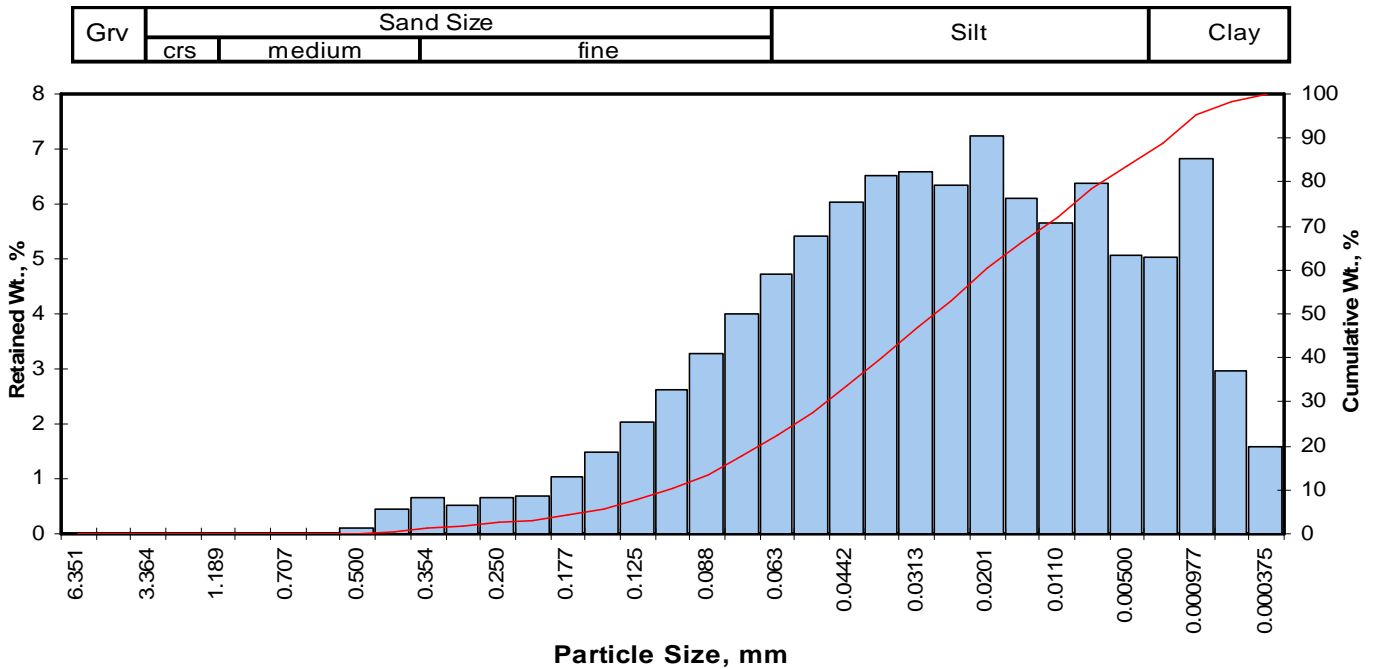
Measure	Trask	Inman	Folk-Ward
Median, phi	6.92	6.92	6.92
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.008	0.008	0.008
Mean, phi	5.21	6.35	6.54
Mean, in.	0.0011	0.0005	0.0004
Mean, mm	0.027	0.012	0.011
Sorting	5.560	3.402	3.065
Skewness	1.135	-0.167	-0.143
Kurtosis	0.131	0.324	0.746

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.33
Fine Sand	200	20.78
Silt	>0.005 mm	38.49
Clay	<0.005 mm	39.41
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB10-85.5-86.0
Depth, ft: 85.5-86.0



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.11	0.11	0.12
0.0166	0.420	1.25	40	0.44	0.44	0.56
0.0139	0.354	1.50	45	0.64	0.64	1.20
0.0117	0.297	1.75	50	0.52	0.52	1.72
0.0098	0.250	2.00	60	0.66	0.66	2.38
0.0083	0.210	2.25	70	0.70	0.70	3.08
0.0070	0.177	2.50	80	1.04	1.04	4.12
0.0059	0.149	2.75	100	1.49	1.49	5.62
0.0049	0.125	3.00	120	2.04	2.04	7.66
0.0041	0.105	3.25	140	2.62	2.62	10.28
0.0035	0.088	3.50	170	3.27	3.28	13.56
0.0029	0.074	3.75	200	3.98	3.99	17.55
0.0025	0.063	4.00	230	4.72	4.73	22.27
0.0021	0.053	4.25	270	5.42	5.43	27.70
0.00174	0.0442	4.50	325	6.02	6.03	33.73
0.00146	0.0372	4.75	400	6.49	6.50	40.23
0.00123	0.0313	5.00	450	6.59	6.60	46.83
0.000986	0.0250	5.32	500	6.32	6.33	53.16
0.000790	0.0201	5.64	635	7.22	7.23	60.40
0.000615	0.0156	6.00		6.08	6.09	66.49
0.000435	0.0110	6.50		5.66	5.67	72.15
0.000308	0.00781	7.00		6.37	6.38	78.54
0.000197	0.00500	7.65		5.06	5.07	83.60
0.000077	0.00195	9.00		5.04	5.05	88.65
0.000038	0.000977	10.00		6.80	6.81	95.46
0.000019	0.000488	11.00		2.96	2.96	98.43
0.000015	0.000375	11.38		1.57	1.57	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.65	0.0063	0.160
10	3.22	0.0042	0.107
16	3.65	0.0031	0.079
25	4.13	0.0023	0.057
40	4.74	0.0015	0.037
50	5.16	0.0011	0.028
60	5.62	0.0008	0.020
75	6.72	0.0004	0.009
84	7.75	0.0002	0.005
90	9.20	0.0001	0.002
95	9.93	0.0000	0.001

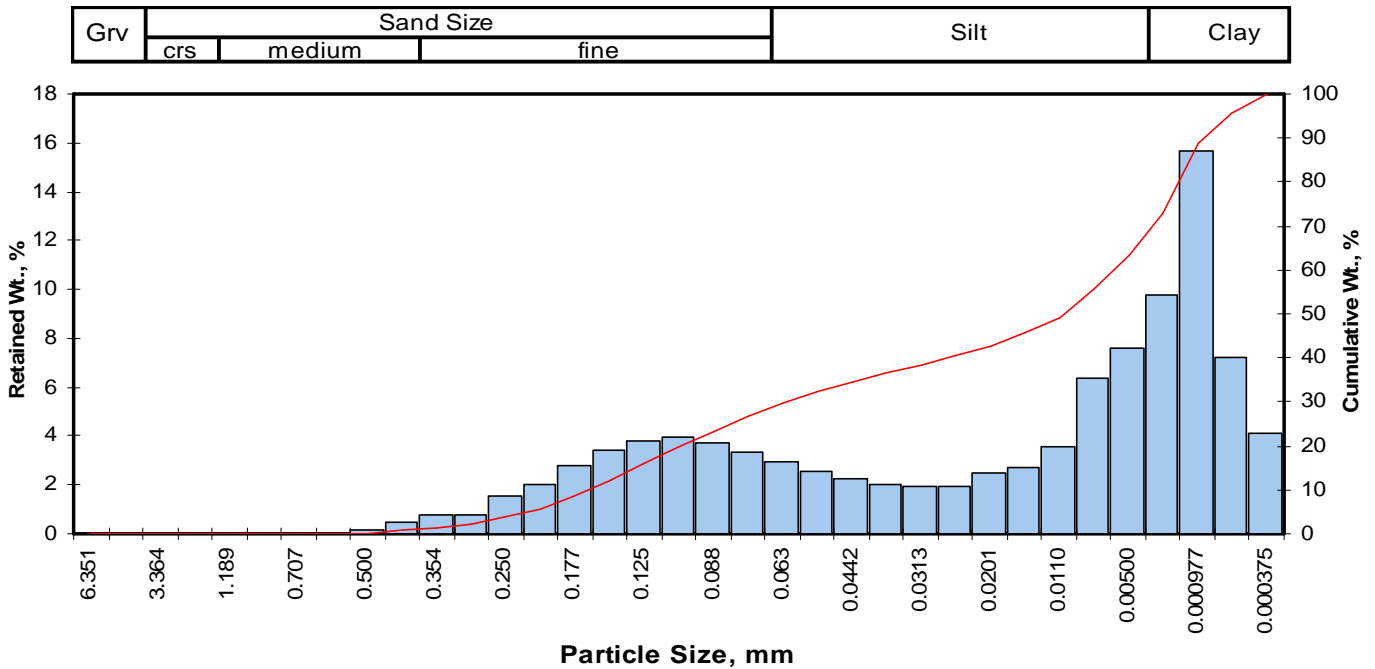
Measure	Trask	Inman	Folk-Ward
Median, phi	5.16	5.16	5.16
Median, in.	0.0011	0.0011	0.0011
Median, mm	0.028	0.028	0.028
Mean, phi	4.90	5.70	5.52
Mean, in.	0.0013	0.0008	0.0009
Mean, mm	0.033	0.019	0.022
Sorting	2.460	2.049	2.128
Skewness	0.833	0.265	0.287
Kurtosis	0.227	0.778	1.150

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.56
Fine Sand	200	16.99
Silt	>0.005 mm	66.06
Clay	<0.005 mm	16.40
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB11-40.8-41.3
Depth, ft: 40.8-41.3



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.15	0.15	0.16
0.0166	0.420	1.25	40	0.50	0.50	0.67
0.0139	0.354	1.50	45	0.74	0.74	1.41
0.0117	0.297	1.75	50	0.77	0.77	2.18
0.0098	0.250	2.00	60	1.53	1.54	3.72
0.0083	0.210	2.25	70	2.03	2.04	5.76
0.0070	0.177	2.50	80	2.76	2.77	8.53
0.0059	0.149	2.75	100	3.37	3.39	11.92
0.0049	0.125	3.00	120	3.80	3.82	15.73
0.0041	0.105	3.25	140	3.92	3.94	19.67
0.0035	0.088	3.50	170	3.73	3.75	23.42
0.0029	0.074	3.75	200	3.35	3.37	26.78
0.0025	0.063	4.00	230	2.93	2.94	29.73
0.0021	0.053	4.25	270	2.54	2.55	32.28
0.00174	0.0442	4.50	325	2.23	2.24	34.52
0.00146	0.0372	4.75	400	2.04	2.05	36.57
0.00123	0.0313	5.00	450	1.94	1.95	38.52
0.000986	0.0250	5.32	500	1.90	1.91	40.42
0.000790	0.0201	5.64	635	2.45	2.46	42.89
0.000615	0.0156	6.00		2.70	2.71	45.60
0.000435	0.0110	6.50		3.55	3.57	49.16
0.000308	0.00781	7.00		6.37	6.40	55.56
0.000197	0.00500	7.65		7.59	7.62	63.19
0.000077	0.00195	9.00		9.76	9.80	72.99
0.000038	0.000977	10.00		15.60	15.67	88.66
0.000019	0.000488	11.00		7.19	7.22	95.88
0.000015	0.000375	11.38		4.10	4.12	100.00
TOTALS				99.60	100.00	100.00

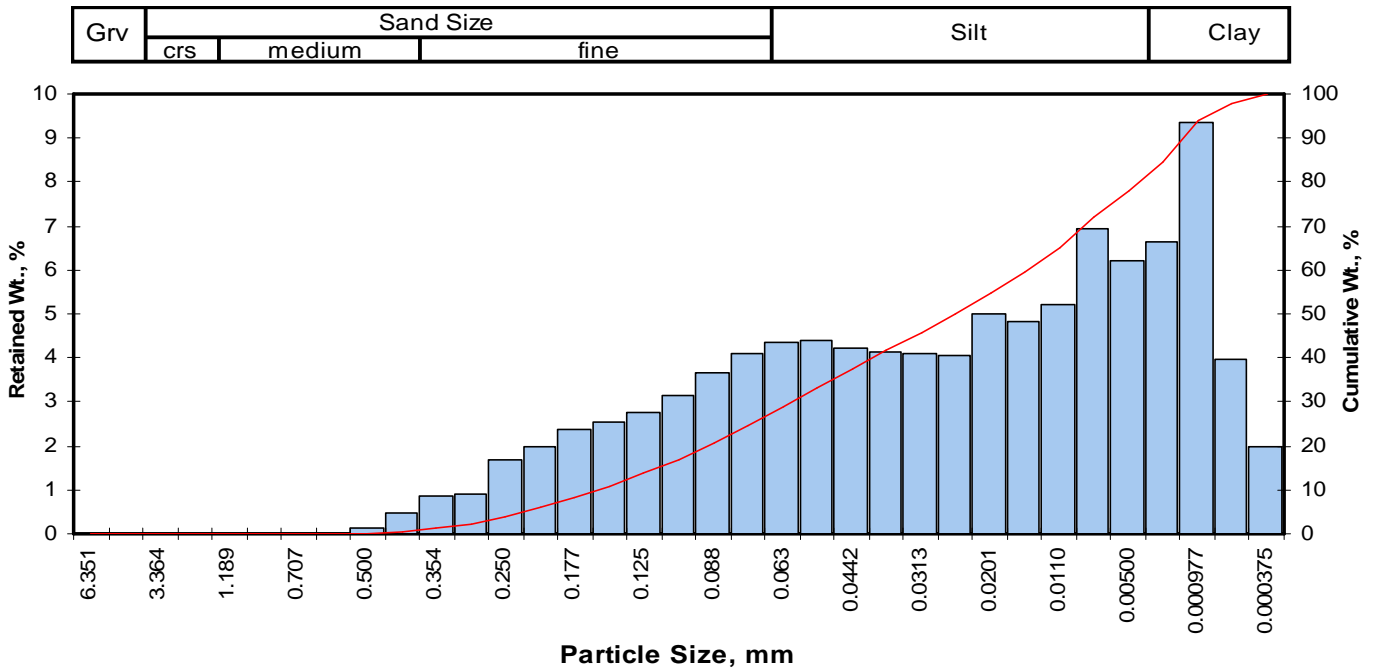
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.16	0.0088	0.224
10	2.61	0.0065	0.164
16	3.02	0.0049	0.124
25	3.62	0.0032	0.081
40	5.25	0.0010	0.026
50	6.57	0.0004	0.011
60	7.38	0.0002	0.006
75	9.13	0.0001	0.002
84	9.70	0.0000	0.001
90	10.19	0.0000	0.001
95	10.88	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.57	6.57	6.57
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.011	0.011	0.011
Mean, phi	4.59	6.36	6.43
Mean, in.	0.0016	0.0005	0.0005
Mean, mm	0.042	0.012	0.012
Sorting	6.752	3.343	2.993
Skewness	1.143	-0.062	-0.036
Kurtosis	0.244	0.304	0.649
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.67
Fine Sand	200	26.12
Silt	>0.005 mm	36.40
Clay	<0.005 mm	36.81
Total	Total	100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB11-50.0-50.5
Depth, ft: 50.0-50.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.01	0.01	0.01
0.0197	0.500	1.00	35	0.11	0.11	0.12
0.0166	0.420	1.25	40	0.49	0.49	0.61
0.0139	0.354	1.50	45	0.84	0.84	1.45
0.0117	0.297	1.75	50	0.91	0.91	2.36
0.0098	0.250	2.00	60	1.69	1.69	4.05
0.0083	0.210	2.25	70	1.97	1.97	6.03
0.0070	0.177	2.50	80	2.36	2.36	8.39
0.0059	0.149	2.75	100	2.55	2.55	10.95
0.0049	0.125	3.00	120	2.76	2.77	13.71
0.0041	0.105	3.25	140	3.14	3.15	16.86
0.0035	0.088	3.50	170	3.64	3.65	20.51
0.0029	0.074	3.75	200	4.08	4.09	24.59
0.0025	0.063	4.00	230	4.35	4.36	28.95
0.0021	0.053	4.25	270	4.37	4.38	33.33
0.00174	0.0442	4.50	325	4.23	4.24	37.57
0.00146	0.0372	4.75	400	4.14	4.15	41.72
0.00123	0.0313	5.00	450	4.09	4.10	45.81
0.000986	0.0250	5.32	500	4.04	4.05	49.86
0.000790	0.0201	5.64	635	5.00	5.01	54.87
0.000615	0.0156	6.00		4.81	4.82	59.69
0.000435	0.0110	6.50		5.20	5.21	64.90
0.000308	0.00781	7.00		6.92	6.93	71.84
0.000197	0.00500	7.65		6.19	6.20	78.04
0.000077	0.00195	9.00		6.63	6.64	84.68
0.000038	0.000977	10.00		9.35	9.37	94.05
0.000019	0.000488	11.00		3.95	3.96	98.01
0.000015	0.000375	11.38		1.99	1.99	100.00
TOTALS				99.80	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.12	0.0091	0.230
10	2.66	0.0062	0.159
16	3.18	0.0043	0.110
25	3.77	0.0029	0.073
40	4.65	0.0016	0.040
50	5.33	0.0010	0.025
60	6.03	0.0006	0.015
75	7.33	0.0002	0.006
84	8.86	0.0001	0.002
90	9.57	0.0001	0.001
95	10.24	0.0000	0.001

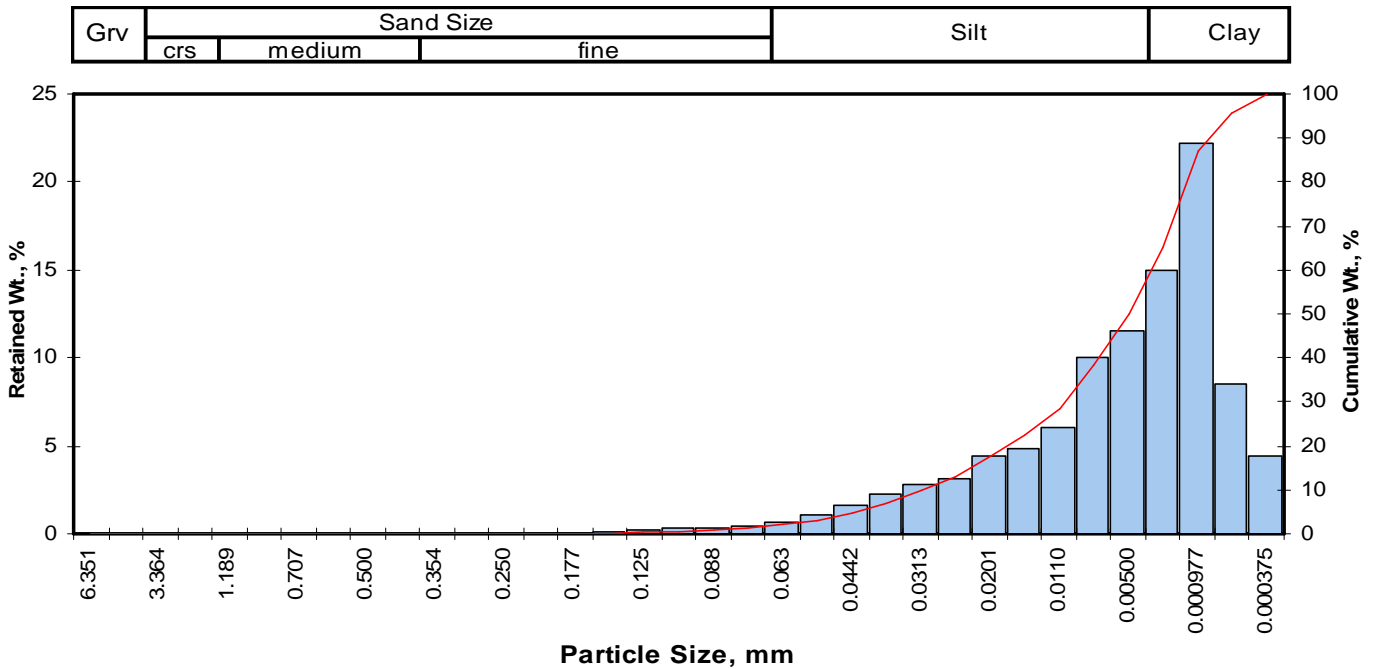
Measure	Trask	Inman	Folk-Ward
Median, phi	5.33	5.33	5.33
Median, in.	0.0010	0.0010	0.0010
Median, mm	0.025	0.025	0.025
Mean, phi	4.66	6.02	5.79
Mean, in.	0.0016	0.0006	0.0007
Mean, mm	0.040	0.015	0.018
Sorting	3.429	2.840	2.650
Skewness	0.857	0.244	0.227
Kurtosis	0.213	0.430	0.936

Grain Size Description Silt
(ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.61
Fine Sand	200	23.99
Silt	>0.005 mm	53.44
Clay	<0.005 mm	21.96
Total		100

Client: Ramboll Environ
Project: NERT
Project No: 21-41400C, Phase M03D

PTS File No: 47354
Sample ID: PT-PCDB11-68.3-68.8
Depth, ft: 68.3-68.8



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.01	0.01	0.01
0.0059	0.149	2.75	100	0.07	0.07	0.07
0.0049	0.125	3.00	120	0.23	0.23	0.30
0.0041	0.105	3.25	140	0.33	0.33	0.63
0.0035	0.088	3.50	170	0.36	0.36	0.99
0.0029	0.074	3.75	200	0.45	0.45	1.45
0.0025	0.063	4.00	230	0.69	0.69	2.14
0.0021	0.053	4.25	270	1.08	1.08	3.22
0.00174	0.0442	4.50	325	1.60	1.61	4.83
0.00146	0.0372	4.75	400	2.25	2.26	7.09
0.00123	0.0313	5.00	450	2.79	2.80	9.89
0.000986	0.0250	5.32	500	3.16	3.17	13.06
0.000790	0.0201	5.64	635	4.40	4.42	17.48
0.000615	0.0156	6.00		4.86	4.88	22.36
0.000435	0.0110	6.50		6.02	6.05	28.41
0.000308	0.00781	7.00		9.98	10.02	38.43
0.000197	0.00500	7.65		11.50	11.55	49.98
0.000077	0.00195	9.00		14.90	14.96	64.94
0.000038	0.000977	10.00		22.10	22.19	87.14
0.000019	0.000488	11.00		8.45	8.49	95.62
0.000015	0.000375	11.38		4.36	4.38	100.00
TOTALS				99.60	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.52	0.0017	0.044
10	5.01	0.0012	0.031
16	5.53	0.0009	0.022
25	6.22	0.0005	0.013
40	7.09	0.0003	0.007
50	7.65	0.0002	0.005
60	8.55	0.0001	0.003
75	9.45	0.0001	0.001
84	9.86	0.0000	0.001
90	10.34	0.0000	0.001
95	10.93	0.0000	0.001

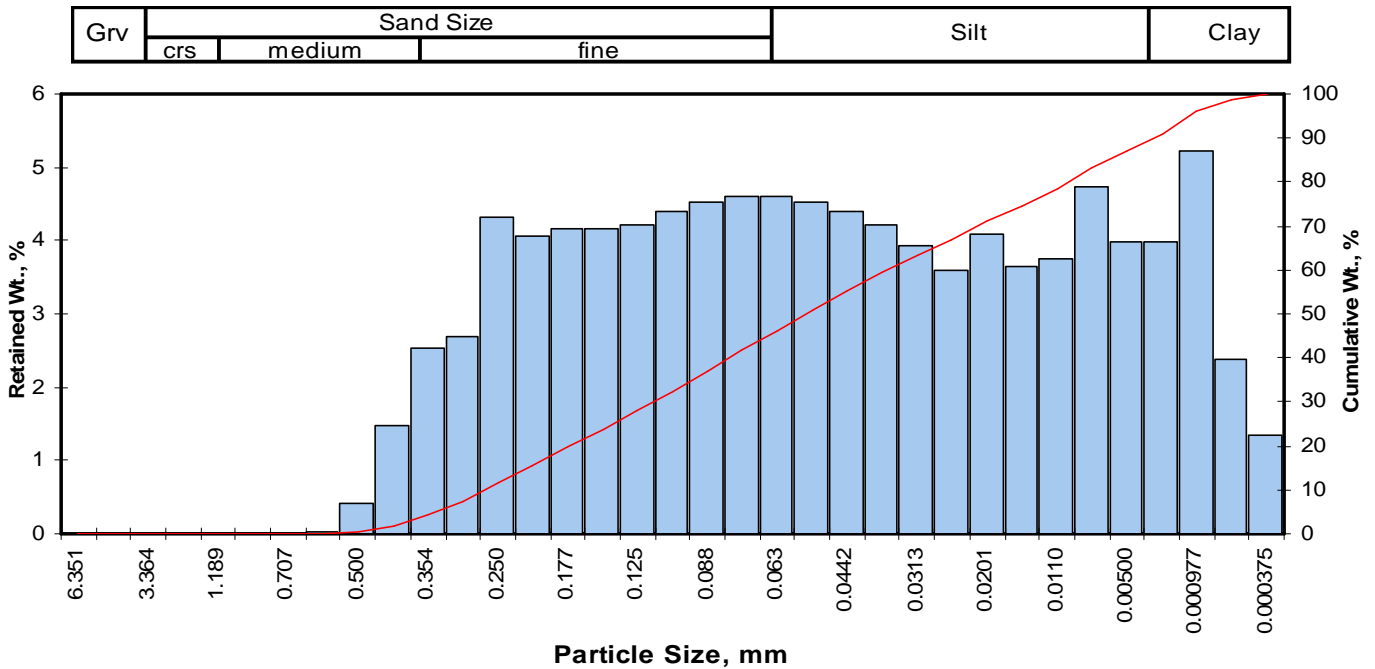
Measure	Trask	Inman	Folk-Ward
Median, phi	7.65	7.65	7.65
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.005	0.005	0.005
Mean, phi	7.07	7.70	7.68
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.007	0.005	0.005
Sorting	3.069	2.163	2.052
Skewness	0.877	0.023	0.023
Kurtosis	0.199	0.481	0.812

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	1.45
Silt	>0.005 mm	48.53
Clay	<0.005 mm	50.02
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PCDB11-78.7-79.2
 Depth, ft: 78.7-79.2



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.04	0.04	0.04
0.0197	0.500	1.00	35	0.42	0.42	0.46
0.0166	0.420	1.25	40	1.48	1.48	1.94
0.0139	0.354	1.50	45	2.53	2.53	4.47
0.0117	0.297	1.75	50	2.68	2.68	7.16
0.0098	0.250	2.00	60	4.31	4.32	11.47
0.0083	0.210	2.25	70	4.05	4.06	15.53
0.0070	0.177	2.50	80	4.17	4.18	19.70
0.0059	0.149	2.75	100	4.16	4.17	23.87
0.0049	0.125	3.00	120	4.22	4.23	28.09
0.0041	0.105	3.25	140	4.38	4.39	32.48
0.0035	0.088	3.50	170	4.52	4.53	37.01
0.0029	0.074	3.75	200	4.59	4.60	41.60
0.0025	0.063	4.00	230	4.59	4.60	46.20
0.0021	0.053	4.25	270	4.53	4.54	50.73
0.00174	0.0442	4.50	325	4.39	4.40	55.13
0.00146	0.0372	4.75	400	4.21	4.22	59.35
0.00123	0.0313	5.00	450	3.93	3.94	63.28
0.000986	0.0250	5.32	500	3.58	3.58	66.87
0.000790	0.0201	5.64	635	4.07	4.08	70.94
0.000615	0.0156	6.00		3.63	3.63	74.58
0.000435	0.0110	6.50		3.74	3.75	78.32
0.000308	0.00781	7.00		4.73	4.74	83.06
0.000197	0.00500	7.65		3.99	4.00	87.05
0.000077	0.00195	9.00		3.98	3.99	91.04
0.000038	0.000977	10.00		5.23	5.24	96.28
0.000019	0.000488	11.00		2.37	2.37	98.65
0.000015	0.000375	11.38		1.35	1.35	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.55	0.0135	0.342
10	1.91	0.0104	0.265
16	2.28	0.0081	0.206
25	2.82	0.0056	0.142
40	3.66	0.0031	0.079
50	4.21	0.0021	0.054
60	4.79	0.0014	0.036
75	6.06	0.0006	0.015
84	7.15	0.0003	0.007
90	8.65	0.0001	0.002
95	9.76	0.0000	0.001

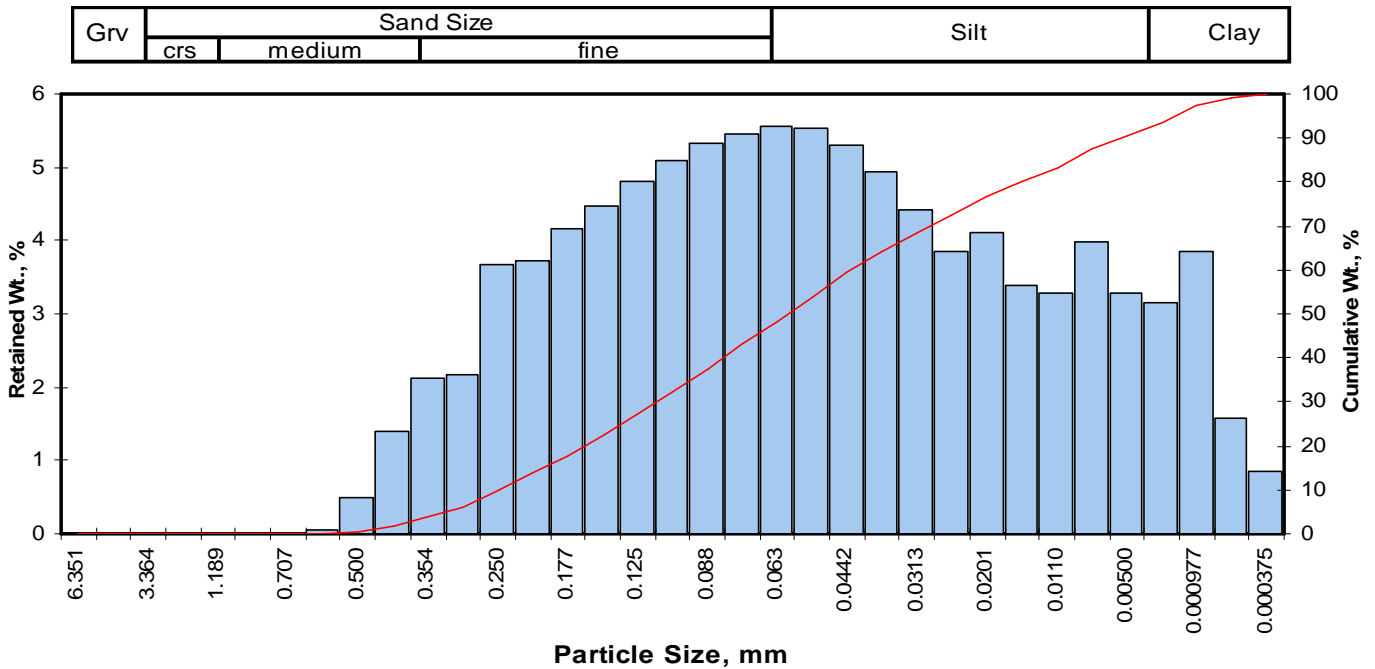
Measure	Trask	Inman	Folk-Ward
Median, phi	4.21	4.21	4.21
Median, in.	0.0021	0.0021	0.0021
Median, mm	0.054	0.054	0.054
Mean, phi	3.67	4.72	4.55
Mean, in.	0.0031	0.0015	0.0017
Mean, mm	0.078	0.038	0.043
Sorting	3.073	2.437	2.462
Skewness	0.854	0.208	0.280
Kurtosis	0.241	0.684	1.038

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.94
Fine Sand	200	39.66
Silt	>0.005 mm	45.45
Clay	<0.005 mm	12.95
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 21-41400C, Phase M03D

PTS File No: 47354
 Sample ID: PT-PCDB11-86.2-86.7
 Depth, ft: 86.2-86.7



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.05	0.05	0.05
0.0197	0.500	1.00	35	0.48	0.48	0.53
0.0166	0.420	1.25	40	1.40	1.40	1.93
0.0139	0.354	1.50	45	2.12	2.12	4.05
0.0117	0.297	1.75	50	2.18	2.18	6.24
0.0098	0.250	2.00	60	3.66	3.66	9.90
0.0083	0.210	2.25	70	3.72	3.72	13.62
0.0070	0.177	2.50	80	4.15	4.15	17.78
0.0059	0.149	2.75	100	4.46	4.46	22.24
0.0049	0.125	3.00	120	4.80	4.80	27.05
0.0041	0.105	3.25	140	5.10	5.11	32.15
0.0035	0.088	3.50	170	5.31	5.32	37.47
0.0029	0.074	3.75	200	5.46	5.47	42.93
0.0025	0.063	4.00	230	5.55	5.56	48.49
0.0021	0.053	4.25	270	5.52	5.53	54.01
0.00174	0.0442	4.50	325	5.30	5.31	59.32
0.00146	0.0372	4.75	400	4.93	4.93	64.25
0.00123	0.0313	5.00	450	4.42	4.42	68.68
0.000986	0.0250	5.32	500	3.85	3.85	72.53
0.000790	0.0201	5.64	635	4.11	4.11	76.65
0.000615	0.0156	6.00		3.38	3.38	80.03
0.000435	0.0110	6.50		3.28	3.28	83.31
0.000308	0.00781	7.00		3.99	3.99	87.31
0.000197	0.00500	7.65		3.27	3.27	90.58
0.000077	0.00195	9.00		3.15	3.15	93.73
0.000038	0.000977	10.00		3.85	3.85	97.59
0.000019	0.000488	11.00		1.57	1.57	99.16
0.000015	0.000375	11.38		0.84	0.84	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.61	0.0129	0.328
10	2.01	0.0098	0.249
16	2.39	0.0075	0.190
25	2.89	0.0053	0.135
40	3.62	0.0032	0.082
50	4.07	0.0023	0.060
60	4.53	0.0017	0.043
75	5.51	0.0009	0.022
84	6.59	0.0004	0.010
90	7.53	0.0002	0.005
95	9.33	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	4.07	4.07	4.07
Median, in.	0.0023	0.0023	0.0023
Median, mm	0.060	0.060	0.060
Mean, phi	3.68	4.49	4.35
Mean, in.	0.0031	0.0018	0.0019
Mean, mm	0.078	0.045	0.049
Sorting	2.478	2.096	2.218
Skewness	0.911	0.201	0.282
Kurtosis	0.231	0.841	1.208

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	1.93
Fine Sand	200	41.00
Silt	>0.005 mm	47.65
Clay	<0.005 mm	9.42
Total		100

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-RI15-54.5-55.0	54.5-55.0	20180309	63.8	23.8	40.0	CH	CH Fat clay	-
PT-RI15-75.0-75.5	75.0-75.5	20180309	86.6	23.8	62.8	CH	CH Fat clay	-
PT-RI15-96.0-96.5	96.0-96.5	20180309	88.1	25.0	63.1	CH	CH Fat clay	-
PT-RI15-116.0-116.5	116.0-116.5	20180309	85.2	24.8	60.4	CH	CH Fat clay	-
PT-RI15-134.0-134.5	134.0-134.5	20180309	98.2	20.9	77.3	CH	CH Fat clay	-
PT-M195-46.5-47.0	46.5-47.0	20180309	84.1	21.9	62.2	CH	SC Clayey sand	-
PT-M195-60.0-60.5	60.0-60.5	20180309	49.4	31.9	17.5	ML	SM Silty sand	-
PT-M195-67.5-67.8	67.5-67.8	20180309	49.0	30.5	18.5	ML	ML silt and sand	-
PT-M195-79.5-80.0	79.5-80.0	20180312	77.4	21.0	56.4	CH	CH Fat clay with sand	-
PT-M195-101.0-101.5	101.0-101.5	20180312	98.8	19.5	79.3	CH	CH Fat clay	-
PT-M195-146.0-146.5	146.0-146.5	20180312	85.2	25.3	59.9	CH	CH Fat clay	-
PT-MI97-23.0-23.3	23.0-23.3	20180312	23.5	NON-PLASTIC		NP	SW Well-graded sand	-
PT-MI97-52.5-53.0	52.5-53.0	20180312	48.8	32.7	16.1	ML	ML Silt with sand	-
PT-MI97-64.2-64.5	64.2-64.5	20180312	50.0	32.3	17.7	ML-MH	MH Elastic silt and sand	-
PT-MI97-82.5-83.0	82.5-83.0	20180313	92.5	39.1	53.4	MH-CH	CH Fat clay	-
PT-MI97-119.0-119.5	119.0-119.5	20180313	89.6	19.1	70.5	CH	SC Clayey sand	-
PT-MI97-124.0-124.3	124.0-124.3	20180313	22.8	NON-PLASTIC		NP	SW Well-graded sand with gravel	-
PT-MI97-135.0-135.4	135.0-135.4	20180313	91.1	36.6	54.5	CH	CH Fat clay	-
PT-MI97-138.5-139.0	138.5-139.0	20180314	79.5	19.5	60.0	CH	CH Fat clay	-
PT-MI97-145.5-146.0	145.5-146.0	20180314	144.1	27.5	116.6	CH	CH Fat clay	-
PT-M223-7.5-7.8	7.5-7.8	20180315	38.9	24.2	14.7	CL	SC Clayey sand	-
PT-M223-13.0-13.3	13.0-13.3	20180315	38.7	26.4	12.3	ML	SW-SM Well-graded sand with silt	-
PT-M223-27.5-27.8	27.5-27.8	20180315	58.7	34.6	24.1	MH	SM Silty sand	-
PT-M226-7.5-7.8	7.5-7.8	20180315	41.6	27.9	13.7	ML	SW-SM Well-graded sand with silt	-

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-M226-13.7-14.0	13.7-14.0	20180315	40.0	27.1	12.9	ML	SW Well-graded sand with gravel	-
PT-M226-36.0-36.5	36.0-36.5	20180315	58.7	33.9	24.8	MH	SM Silty sand	-
PT-PC167-11.0-11.3	11.0-11.3	20180315	52.5	27.9	24.6	CH	SW Well-graded sand with gravel	-
PT-PC167-17.8-18.3	17.8-18.3	20180319	78.7	21.5	57.2	CH	CH Fat clay with sand	-
PT-PC167-21.3-21.8	21.3-21.8	20180319	79.1	21.2	57.9	CH	CH Fat clay	-
PT-PC170-22.5-22.8	22.5-22.8	20180319	52.2	27.2	25.0	CH	SP Poorly-graded sand with gravel	-
PT-PC170-37.0-37.5	37.0-37.5	20180319	37.2	22.9	14.3	CL	SM Silty sand	-
PT-PC170-43.5-44.0	43.5-44.0	20180319	45.4	23.3	22.1	CL	CH Fat clay	-
PT-PC170-47.5-48.0	47.5-48.0	20180319	125.3	33.0	92.3	CH	CH Fat clay and sand	-
PT-PC170-49.0-49.5	49.0-49.5	20180319	123.8	32.4	91.4	CH	CH Fat clay and sand	-
PT-PC170-50.2-50.7	50.2-50.7	20180319	174.2	44.7	129.5	CH	SP-SM Poorly-graded sand with silt	-
PT-PC178-27.7-28.0	27.7-28.0	20180319	51.9	27.5	24.4	CH	SP Poorly-graded sand with gravel	-
PT-PC178-37.0-37.5	37.0-37.5	20180320	67.6	25.2	42.4	CH	CH Fat clay	-
PT-PC178-45.0-45.5	45.0-45.5	20180320	68.9	27.1	41.8	CH	CH Fat clay and sand	-
PT-PC178-55.0-55.5	55.0-55.5	20180320	45.8	23.3	22.5	CL	SC Clayey sand	-
PT-PC178-61.0-61.5	61.0-61.5	20180320	123.3	32.0	91.3	CH	CH Fat clay and sand	-
PT-PC178-72.5-73.0	72.5-73.0	20180320	182.7	28.8	153.9	CH	CH Fat clay with sand	-
PT-PC195-57.0-57.5	57.0-57.6	20180320	112.2	35.9	76.3	CH	CH Fat clay and sand	-
PT-PC195-68.5-69.0	68.5-69.0	20180320	69.2	26.8	42.4	CH	CH Fat clay with sand	-
PT-PCDB4-33.5-34.5	33.5-34.6	20180320	68.3	25.6	42.7	CH	CH Fat clay	-
PT-PCDB4-43.5-44.5	43.5-44.6	20180320	69.1	25.2	43.9	CH	CH Fat clay	-
PT-PCDB4-57.0-58.0	57.0-58.0	20180320	106.0	23.8	82.2	CH	CH Fat clay	-
PT-PCDB4-68.0-69.0	68.0-69.0	20180320	112.7	35.8	76.9	CH	CH Fat clay	-
PT-PCDB4-71.0-72.0	71.0-72.1	20180320	70.9	26.6	44.3	CH	CH Fat clay	-

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-PCDB7-34.5-35.5	34.5-35.6	20180320	91.1	38.8	52.3	CH-MH	CH Fat clay with sand	-
PT-PCDB7-43.0-44.0	43.0-44.0	20180322	89.4	38.8	50.6	CH-MH	CH Fat clay	-
PT-PCDB7-48.0-49.0	48.0-49.0	20180322	92.1	32.6	59.5	CH	CH Fat clay with sand	-
PT-PCDB7-54.5-55.5	54.5-55.5	20180322	89.0	32.0	57.0	CH	CH Fat clay with sand	-
PT-PCDB10-20.0-20.3	20.0-20.3	20180322	25.8	NON-PLASTIC		NP	SP-SM Poorly-graded sand with silt	-
PT-PCDB10-33.3-33.8	33.3-33.8	20180322	79.7	26.3	53.4	CH	SC Clayey sand	-
PT-PCDB10-40.4-40.9	40.4-40.9	20180322	82.4	25.9	56.5	CH	CH Fat clay	-
PT-PCDB10-48.7-49.0	48.7-49.0	20180322	19.0	NON-PLASTIC		NP	SC Clayey sand	-
PT-PCDB10-58.2-58.7	58.2-58.7	20180322	80.8	26.1	54.7	CH	CH Fat clay	-
PT-PCDB10-68.5-69.0	68.5-69.0	20180322	88.0	21.1	66.9	CH	CH Fat clay	-
PT-PCDB10-77.8-78.3	77.8-78.3	20180322	80.9	24.0	56.9	CH	CH Fat clay with sand	-
PT-PCDB10-85.5-86.0	85.5-86.0	20180322	89.6	22.3	67.3	CH	CH Fat clay with sand	-
PT-PCDB11-16.7-17.0	16.7-17.0	20180322	52.5	27.9	24.6	CH-MH	SP-SC Poorly-graded sand with clay	-
PT-PCDB11-29.0-29.5	29.0-29.5	20180323	21.0	NON-PLASTIC		NP	SC Clayey sand	-
PT-PCDB11-40.8-41.3	40.8-41.3	20180323	78.2	24.0	54.2	CH	CH Fat clay with sand	-
PT-PCDB11-50.0-50.5	50.0-50.5	20180323	72.3	20.3	52.0	CH	CH Fat clay with sand	-
PT-PCDB11-58.5-58.8	58.5-58.8	20180323	16.1	NON-PLASTIC		NP	SM Silty sand	-
PT-PCDB11-68.3-68.8	68.3-68.8	20180323	73.2	20.7	52.5	CH	CH Fat clay	-
PT-PCDB11-78.7-79.2	78.7-79.2	20180323	63.1	27.6	35.5	CH	CH Fat clay and sand	-
PT-PCDB11-86.2-86.7	86.2-86.7	20180323	62.9	28.2	34.7	CH	CH Fat clay and sand	-

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

WATER (MOISTURE) CONTENT OF SOIL OR ROCK BY MASS
 (Methodology: ASTM D 2216)

Project Name: NERT
 Project No: 21-41400C, PHASE M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	MATRIX	Tare WEIGHT, grams	WET SAMPLE and TARE grams	DRY SAMPLE and TARE grams	MOISTURE CONTENT, % dry weight
PT-RI15-54.5-55.0	54.5-55.0	20180316	1030	Soil	15.63	55.07	42.47	46.9
PT-RI15-75.0-75.5	75.0-75.5	20180316	1030	Soil	15.46	59.80	46.40	43.3
PT-RI15-96.0-96.5	96.0-96.5	20180316	1030	Soil	15.52	53.66	37.06	77.1
PT-RI15-116.0-116.5	116.0-116.5	20180316	1030	Soil	15.46	53.20	39.43	57.4
PT-RI15-134.0-134.5	134.0-134.5	20180316	1030	Soil	15.29	57.75	43.65	49.7
PT-M195-46.5-47.0	46.5-47.0	20180316	1030	Soil	15.61	66.16	51.02	42.8
PT-M195-60.0-60.5	60.0-60.5	20180316	1030	Soil	15.50	57.38	47.52	30.8
PT-M195-79.5-80.0	79.5-80.0	20180316	1030	Soil	15.49	62.11	47.98	43.5
PT-M195-101.0-101.5	101.0-101.5	20180316	1030	Soil	15.54	57.50	48.54	27.2
PT-M195-146.0-146.5	146.0-146.5	20180316	1030	Soil	15.49	57.13	42.08	56.6
PT-MI97-52.5-53.0	52.5-53.0	20180316	1610	Soil	15.41	63.58	55.02	21.6
PT-MI97-82.5-83.0	82.5-83.0	20180316	1610	Soil	15.50	61.57	50.98	29.8
PT-MI97-119.0-119.5	119.0-119.5	20180316	1610	Soil	15.46	55.78	48.27	22.9
PT-MI97-135.0-135.4	135.0-135.4	20180316	1610	Soil	15.35	54.18	47.70	20.0
PT-MI97-138.5-139.0	138.5-139.0	20180316	1610	Soil	15.40	62.57	56.74	14.1
PT-MI97-145.5-146.0	145.5-146.0	20180316	1610	Soil	15.42	64.95	58.07	16.1
PT-M226-36.0-36.5	36.0-36.5	20180316	1610	Soil	15.45	64.25	55.29	22.5
PT-PC167-17.8-18.3	17.8-18.3	20180316	1610	Soil	15.49	56.17	47.11	28.7
PT-PC167-21.3-21.8	21.3-21.8	20180316	1610	Soil	15.36	59.72	47.97	36.0
PT-PC170-37.0-37.5	37.0-37.5	20180316	1610	Soil	15.47	61.70	56.33	13.1
PT-PC170-43.5-44.0	43.5-44.0	20180317	0930	Soil	15.39	56.64	47.87	27.0
PT-PC170-47.5-48.0	47.5-48.0	20180317	0930	Soil	15.44	57.65	47.14	33.2
PT-PC170-49.0-49.5	49.0-49.5	20180317	0930	Soil	15.50	66.82	57.50	22.2
PT-PC170-50.2-50.7	50.2-50.7	20180317	0930	Soil	15.37	57.57	41.67	60.5
PT-PC178-37.0-37.5	37.0-37.5	20180317	0930	Soil	15.53	59.93	45.05	50.4

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

WATER (MOISTURE) CONTENT OF SOIL OR ROCK BY MASS
 (Methodology: ASTM D 2216)

Project Name: NERT
 Project No: 21-41400C, PHASE M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	MATRIX	Tare WEIGHT, grams	WET SAMPLE and TARE grams	DRY SAMPLE and TARE grams	MOISTURE CONTENT, % dry weight
PT-PC178-45.0-45.5	45.0-45.5	20180317	0930	Soil	15.36	60.35	47.99	37.9
PT-PC178-55.0-55.5	55.0-55.5	20180317	0930	Soil	15.43	59.16	46.42	41.1
PT-PC178-61.0-61.5	61.0-61.5	20180317	0930	Soil	15.43	60.71	51.04	27.2
PT-PC178-72.5-73.0	72.5-73.0	20180317	0930	Soil	15.56	60.27	44.49	54.5
PT-PC195-57.0-57.5	57.0-57.6	20180317	0930	Soil	15.59	59.09	40.62	73.8
PT-PC195-68.5-69.0	68.5-69.0	20180316	1345	Soil	60.49	106.00	93.16	39.3
PT-PCDB4-33.5-34.5	33.5-34.6	20180316	1345	Soil	58.85	108.92	89.81	61.7
PT-PCDB4-43.5-44.5	43.5-44.6	20180316	1345	Soil	60.86	106.05	92.08	44.7
PT-PCDB4-71.0-72.0	71.0-72.1	20180316	1345	Soil	60.46	106.86	95.74	31.5
PT-PCDB7-43.0-44.0	43.0-44.0	20180316	1345	Soil	60.95	106.28	90.54	53.2
PT-PCDB7-48.0-49.0	48.0-49.0	20180316	1345	Soil	60.09	105.02	92.94	36.8
PT-PCDB10-33.3-33.8	33.3-33.8	20180316	1345	Soil	60.62	105.78	93.96	35.5
PT-PCDB10-40.4-40.9	40.4-40.9	20180316	1345	Soil	60.53	106.28	96.80	26.1
PT-PCDB10-58.2-58.7	58.2-58.7	20180316	1345	Soil	60.86	105.53	96.99	23.6
PT-PCDB10-68.5-69.0	68.5-69.0	20180316	1345	Soil	60.59	106.21	93.16	40.1
PT-PCDB10-77.8-78.3	77.8-78.3	20180319	0930	Soil	26.20	72.62	57.69	47.4
PT-PCDB10-85.5-86.0	85.5-86.0	20180319	0930	Soil	27.03	68.51	53.67	55.7
PT-PCDB11-29.0-29.5	29.0-29.5	20180319	0930	Soil	26.40	75.28	67.79	18.1
PT-PCDB11-40.8-41.3	40.8-41.3	20180319	0930	Soil	26.56	71.48	60.40	32.7
PT-PCDB11-50.0-50.5	50.0-50.5	20180319	0930	Soil	26.08	68.13	58.43	30.0
PT-PCDB11-58.5-58.8	58.5-58.8	20180319	0930	Soil	25.94	69.77	63.02	18.2
PT-PCDB11-68.3-68.8	68.3-68.8	20180319	0930	Soil	26.30	68.88	58.9	30.6
PT-PCDB11-78.7-79.2	78.7-79.2	20180319	0930	Soil	26.40	70.43	58.57	36.9
PT-PCDB11-86.2-86.7	86.2-86.7	20180319	0930	Soil	26.98	74.4	57.46	55.6

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

DRY BULK DENSITY OF IN-PLACE SOIL
 (Methodology: ASTM D2937)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	TOTAL SAMPLE VOLUME, cc	MOISTURE CONTENT, % wt	VOLUMETRIC MOISTURE CONTENT, fraction Vb	DRY BULK DENSITY, g/cc
PT-RI15-54.5-55.0	54.5-55.0	20180312	132.46	47.8	0.575	1.20
PT-RI15-75.0-75.5	75.0-75.5	20180312	132.46	43.1	0.553	1.28
PT-RI15-96.0-96.5	96.0-96.5	20180312	132.46	71.3	0.691	0.97
PT-RI15-116.0-116.5	116.0-116.5	20180312	132.46	54.0	0.607	1.12
PT-RI15-134.0-134.5	134.0-134.5	20180312	132.46	48.4	0.567	1.17
PT-M195-46.5-47.0	46.5-47.0	20180312	132.46	43.9	0.552	1.26
PT-M195-60.0-60.5	60.0-60.5	20180312	132.46	31.2	0.386	1.24
PT-M195-79.5-80.0	79.5-80.0	20180312	132.46	42.9	0.555	1.29
PT-M195-101.0-101.5	101.0-101.5	20180312	132.46	31.3	0.401	1.28
PT-M195-146.0-146.5	146.0-146.5	20180312	132.46	54.5	0.573	1.05
PT-MI97-52.5-53.0	52.5-53.0	20180312	132.46	21.5	0.256	1.19
PT-MI97-82.5-83.0	82.5-83.0	20180312	132.46	27.9	0.288	1.03
PT-MI97-119.0-119.5	119.0-119.5	20180312	132.46	18.6	0.264	1.41
PT-MI97-135.0-135.4	135.0-135.4	20180312	132.46	16.8	0.199	1.18
PT-MI97-138.5-139.0	138.5-139.0	20180312	132.46	12.7	0.163	1.28
PT-MI97-145.5-146.0	145.5-146.0	20180312	132.46	16.5	0.195	1.18
PT-M226-36.0-36.5	36.0-36.5	20180312	132.46	17.8	0.266	1.49
PT-PC167-17.8-18.3	17.8-18.3	20180312	132.46	30.3	0.342	1.13
PT-PC167-21.3-21.8	21.3-21.8	20180312	132.46	34.9	0.380	1.09
PT-PC170-37.0-37.5	37.0-37.5	20180312	132.46	14.4	0.220	1.53
PT-PC170-43.5-44.0	43.5-44.0	20180312	132.46	26.4	0.396	1.50
PT-PC170-47.5-48.0	47.5-48.0	20180312	132.46	28.6	0.321	1.12
PT-PC170-49.0-49.5	49.0-49.5	20180312	132.46	24.9	0.294	1.18
PT-PC170-50.2-50.7	50.2-50.7	20180312	132.46	71.1	0.564	0.79
PT-PC178-37.0-37.5	37.0-37.5	20180312	132.46	38.8	0.509	1.31

Vb = Bulk Volume

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

DRY BULK DENSITY OF IN-PLACE SOIL
 (Methodology: ASTM D2937)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	TOTAL SAMPLE VOLUME, cc	MOISTURE CONTENT, % wt	VOLUMETRIC MOISTURE CONTENT, fraction Vb	DRY BULK DENSITY, g/cc
PT-PC178-45.0-45.5	45.0-45.5	20180312	132.46	38.6	0.436	1.13
PT-PC178-55.0-55.5	55.0-55.5	20180312	132.46	42.2	0.383	0.91
PT-PC178-61.0-61.5	61.0-61.5	20180312	132.46	29.4	0.288	0.98
PT-PC178-72.5-73.0	72.5-73.0	20180312	132.46	36.2	0.474	1.31
PT-PC195-57.0-57.5	57.0-57.6	20180312	132.46	73.7	0.730	0.99
PT-PC195-68.5-69.0	68.5-69.0	20180313	132.46	39.5	0.506	1.28
PT-PCDB4-33.5-34.5	33.5-34.6	20180313	132.46	60.2	0.634	1.05
PT-PCDB4-43.5-44.5	43.5-44.6	20180313	132.46	43.7	0.562	1.28
PT-PCDB4-71.0-72.0	71.0-72.1	20180313	132.46	39.1	0.543	1.39
PT-PCDB7-43.0-44.0	43.0-44.0	20180313	132.46	45.1	0.511	1.13
PT-PCDB7-48.0-49.0	48.0-49.0	20180313	132.46	38.1	0.451	1.18
PT-PCDB10-33.3-33.8	33.3-33.8	20180313	132.46	33.5	0.404	1.21
PT-PCDB10-40.4-40.9	40.4-40.9	20180313	132.46	23.4	0.318	1.36
PT-PCDB10-58.2-58.7	58.2-58.7	20180313	132.46	24.0	0.347	1.45
PT-PCDB10-68.5-69.0	68.5-69.0	20180313	132.46	39.0	0.529	1.36
PT-PCDB10-77.8-78.3	77.8-78.3	20180313	132.46	45.9	0.582	1.27
PT-PCDB10-85.5-86.0	85.5-86.0	20180313	132.46	53.9	0.605	1.12
PT-PCDB11-29.0-29.5	29.0-29.5	20180313	132.46	17.5	0.333	1.90
PT-PCDB11-40.8-41.3	40.8-41.3	20180313	132.46	33.1	0.458	1.38
PT-PCDB11-50.0-50.5	50.0-50.5	20180313	132.46	31.4	0.425	1.35
PT-PCDB11-58.5-58.8	58.5-58.8	20180313	45.10	19.2	0.339	1.76
PT-PCDB11-68.3-68.8	68.3-68.8	20180313	132.46	29.2	0.411	1.41
PT-PCDB11-78.7-79.2	78.7-79.2	20180313	132.46	35.7	0.441	1.23
PT-PCDB11-86.2-86.7	86.2-86.7	20180313	132.46	46.6	0.515	1.10

Vb = Bulk Volume

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS: ANALYSIS DATE	API RP 40 /	Mod. ASTM D425
				TOTAL POROSITY (2), %Vb	Mod. ASTM D425 EFFECTIVE POROSITY, %Vb
PT-RI15-54.5-55.0	54.5-55.0	V	20180314	61.0	13.8
PT-RI15-75.0-75.5	75.0-75.5	V	20180314	55.1	5.2
PT-RI15-96.0-96.5	96.0-96.5	V	20180314	54.4	6.3
PT-RI15-116.0-116.5	116.0-116.5	V	20180314	63.4	7.6
PT-RI15-134.0-134.5	134.0-134.5	V	20180314	63.5	10.4
PT-M195-46.5-47.0	46.5-47.0	V	20180314	59.4	12.1
PT-M195-60.0-60.5	60.0-60.5	V	20180314	59.3	27.2
PT-M195-79.5-80.0	79.5-80.0	V	20180314	47.0	2.7
PT-M195-101.0-101.5	101.0-101.5	V	20180314	62.1	14.7
PT-M195-146.0-146.5	146.0-146.5	V	20180314	56.4	5.6
PT-MI97-52.5-53.0	52.5-53.0	V	20180314	54.9	12.5
PT-MI97-82.5-83.0	82.5-83.0	V	20180314	62.2	9.5
PT-MI97-119.0-119.5	119.0-119.5	V	20180314	56.1	9.6
PT-MI97-135.0-135.4	135.0-135.4	V	20180314	65.9	10.9
PT-MI97-138.5-139.0	138.5-139.0	V	20180314	47.9	11.2
PT-MI97-145.5-146.0	145.5-146.0	V	20180315	55.5	4.9
PT-M226-36.0-36.5	36.0-36.5	V	20180315	47.2	13.2
PT-PC167-17.8-18.3	17.8-18.3	V	20180315	53.5	15.1
PT-PC167-21.3-21.8	21.3-21.8	V	20180315	53.8	13.3
PT-PC170-37.0-37.5	37.0-37.5	V	20180315	48.2	22.5
PT-PC170-43.5-44.0	43.5-44.0	V	20180315	49.8	17.4
PT-PC170-47.5-48.0	47.5-48.0	V	20180315	65.7	20.9
PT-PC170-49.0-49.5	49.0-49.5	V	20180315	54.4	22.8
PT-PC170-50.2-50.7	50.2-50.7	V	20180315	73.0	24.9
PT-PC178-37.0-37.5	37.0-37.5	V	20180315	59.3	13.1

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Total Porosity = all interconnected pore channels.
 Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	METHODS:	
				API RP 40 / Mod. ASTM D425	Mod. ASTM D425
				TOTAL POROSITY (2), %Vb	EFFECTIVE POROSITY, %Vb
PT-PC178-45.0-45.5	45.0-45.5	V	20171217	55.8	10.4
PT-PC178-55.0-55.5	55.0-55.5	V	20171217	71.8	17.9
PT-PC178-61.0-61.5	61.0-61.5	V	20171217	65.8	17.9
PT-PC178-72.5-73.0	72.5-73.0	V	20171217	62.1	14.8
PT-PC195-57.0-57.5	57.0-57.6	V	20171217	64.7	21.8
PT-PC195-68.5-69.0	68.5-69.0	V	20180318	60.7	15.7
PT-PCDB4-33.5-34.5	33.5-34.6	V	20180318	54.8	11.1
PT-PCDB4-43.5-44.5	43.5-44.6	V	20180318	54.4	10.2
PT-PCDB4-71.0-72.0	71.0-72.1	V	20180318	53.5	10.4
PT-PCDB7-43.0-44.0	43.0-44.0	V	20180318	55.7	7.3
PT-PCDB7-48.0-49.0	48.0-49.0	V	20180318	60.1	15.5
PT-PCDB10-33.3-33.8	33.3-33.8	V	20180318	59.8	14.3
PT-PCDB10-40.4-40.9	40.4-40.9	V	20180318	48.4	5.0
PT-PCDB10-58.2-58.7	58.2-58.7	V	20180318	52.4	15.6
PT-PCDB10-68.5-69.0	68.5-69.0	V	20180318	47.3	3.9
PT-PCDB10-77.8-78.3	77.8-78.3	V	20180318	57.4	16.1
PT-PCDB10-85.5-86.0	85.5-86.0	V	20180318	55.6	7.9
PT-PCDB11-29.0-29.5	29.0-29.5	V	20180318	30.7	14.0
PT-PCDB11-40.8-41.3	40.8-41.3	V	20180318	55.0	12.6
PT-PCDB11-50.0-50.5	50.0-50.5	V	20180318	48.8	4.7
PT-PCDB11-58.5-58.8	58.5-58.8	V	20180316	33.7	19.0
PT-PCDB11-68.3-68.8	68.3-68.8	V	20180316	47.6	7.0
PT-PCDB11-78.7-79.2	78.7-79.2	V	20180316	52.9	15.1
PT-PCDB11-86.2-86.7	86.2-86.7	V	20180316	57.8	7.7

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Total Porosity = all interconnected pore channels.
 Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY

(Methodology: API RP 40; EPA 9100)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	25 PSI CONFINING STRESS		
				EFFECTIVE PERMEABILITY TO WATER (2,3), millidarcy	HYDRAULIC CONDUCTIVITY (3), cm/s	INTRINSIC PERMEABILITY TO WATER (3), cm ²
PT-RI15-75.0-75.5	75.0-75.5	V	20180314	0.143	1.40E-07	1.41E-12
PT-RI15-96.0-96.5	96.0-96.5	V	20180314	0.087	8.54E-08	8.54E-13
PT-M195-146.0-146.5	146.0-146.5	V	20180314	0.041	4.02E-08	4.01E-13
PT-MI97-52.5-53.0	52.5-53.0	V	20180314	0.435	4.30E-07	4.30E-12
PT-MI97-138.5-139.0	138.5-139.0	V	20180314	0.637	6.31E-07	6.29E-12
PT-MI97-145.5-146.0	145.5-146.0	V	20180315	0.117	1.13E-07	1.16E-12
PT-PC167-17.8-18.3	17.8-18.3	V	20180315	3.13	3.05E-06	3.09E-11
PT-PC167-21.3-21.8	21.3-21.8	V	20180315	2.54	2.48E-06	2.51E-11
PT-PC178-37.0-37.5	37.0-37.5	V	20180315	1.44	1.41E-06	1.42E-11
PT-PC178-45.0-45.5	45.0-45.5	V	20180315	0.511	5.02E-07	5.05E-12
PT-PCDB4-33.5-34.5	33.5-34.6	V	20180316	0.204	1.99E-07	2.01E-12
PT-PCDB4-43.5-44.5	43.5-44.6	V	20180316	0.883	8.65E-07	8.71E-12
PT-PCDB7-43.0-44.0	43.0-44.0	V	20180316	0.612	6.04E-07	6.05E-12
PT-PCDB10-40.4-40.9	40.4-40.9	V	20180316	0.527	5.11E-07	5.20E-12
PT-PCDB10-68.5-69.0	68.5-69.0	V	20180316	0.128	1.25E-07	1.26E-12
PT-PCDB10-85.5-86.0	85.5-86.0	V	20180316	0.514	5.05E-07	5.07E-12
PT-PCDB11-29.0-29.5	29.0-29.5	V	20180316	2.60	2.55E-06	2.57E-11
PT-PCDB11-50.0-50.5	50.0-50.5	V	20180316	0.468	4.57E-07	4.62E-12
PT-PCDB11-68.3-68.8	68.3-68.8	V	20180316	0.306	3.04E-07	3.02E-12
PT-PCDB11-86.2-86.7	86.2-86.7	V	20180316	0.234	2.33E-07	2.31E-12

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Effective (Native) = With as-received pore fluids in place.
 (3) Permeability to water and hydraulic conductivity measured at saturated conditions.
 Water = filtered Laboratory Fresh (tap) or Site water.

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-RI15-54.5-55.0	54.5-55.0	20180319	0830	SOIL	201	2.01E-04
PT-RI15-75.0-75.5	75.0-75.5	20180319	0830	SOIL	219	2.19E-04
PT-RI15-96.0-96.5	96.0-96.5	20180319	0830	SOIL	395	3.95E-04
PT-RI15-116.0-116.5	116.0-116.5	20180319	0830	SOIL	105	1.05E-04
PT-RI15-134.0-134.5	134.0-134.5	20180319	0830	SOIL	202	2.02E-04
PT-M195-46.5-47.0	46.5-47.0	20180319	0830	SOIL	298	2.98E-04
PT-M195-60.0-60.5	60.0-60.5	20180319	0830	SOIL	85	8.53E-05
PT-M195-67.5-67.8	67.5-67.8	20180319	0830	SOIL	107	1.07E-04
PT-M195-79.5-80.0	79.5-80.0	20180320	1000	SOIL	401	4.01E-04
PT-M195-101.0-101.5	101.0-101.5	20180320	1000	SOIL	593	5.93E-04
PT-M195-146.0-146.5	146.0-146.5	20180320	1000	SOIL	681	6.81E-04
PT-MI97-23.0-23.3	23.0-23.3	20180320	1000	SOIL	568	5.68E-04
PT-MI97-52.5-53.0	52.5-53.0	20180320	1000	SOIL	386	3.86E-04
PT-MI97-64.2-64.5	64.2-64.5	20180320	1000	SOIL	494	4.94E-04
PT-MI97-82.5-83.0	82.5-83.0	20180320	1000	SOIL	496	4.96E-04
PT-MI97-119.0-119.5	119.0-119.5	20180320	1000	SOIL	494	4.94E-04
PT-MI97-124.0-124.3	124.0-124.3	20180320	1000	SOIL	200	2.00E-04
PT-MI97-135.0-135.4	135.0-135.4	20180320	1000	SOIL	493	4.93E-04
PT-MI97-138.5-139.0	138.5-139.0	20180320	1000	SOIL	394	3.94E-04
PT-MI97-145.5-146.0	145.5-146.0	20180320	1000	SOIL	398	3.98E-04

Blank	N/A	20180319	0830	BLANK	ND	ND
SRM D094-542	N/A	20180320	1000	SRM	4426	4.43E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D096-542	107	75-125	3890	2918	4863

ND = Not Detected

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-M223-7.5-7.8	7.5-7.8	20180320	1000	SOIL	393	3.93E-04
PT-M223-13.0-13.3	13.0-13.3	20180320	1000	SOIL	410	4.10E-04
PT-M223-27.5-27.8	27.5-27.8	20180320	1000	SOIL	398	3.98E-04
PT-M226-7.5-7.8	7.5-7.8	20180320	1000	SOIL	394	3.94E-04
PT-M226-13.7-14.0	13.7-14.0	20180320	1000	SOIL	481	4.81E-04
PT-M226-36.0-36.5	36.0-36.5	20180320	1000	SOIL	395	3.95E-04
PT-PC167-11.0-11.3	11.0-11.3	20180320	1000	SOIL	298	2.98E-04
PT-PC167-17.8-18.3	17.8-18.3	20180320	1000	SOIL	493	4.93E-04
PT-PC167-21.3-21.8	21.3-21.8	20180321	0930	SOIL	594	5.94E-04
PT-PC170-22.5-22.8	22.5-22.8	20180321	0930	SOIL	393	3.93E-04
PT-PC170-37.0-37.5	37.0-37.5	20180321	0930	SOIL	206	2.06E-04
PT-PC170-43.5-44.0	43.5-44.0	20180321	0930	SOIL	304	3.04E-04
PT-PC170-47.5-48.0	47.5-48.0	20180321	0930	SOIL	304	3.04E-04
PT-PC170-49.0-49.5	49.0-49.5	20180321	0930	SOIL	104	1.04E-04
PT-PC170-50.2-50.7	50.2-50.7	20180321	0930	SOIL	104	1.04E-04
PT-PC178-27.7-28.0	27.7-28.0	20180321	0930	SOIL	297	2.97E-04
PT-PC178-37.0-37.5	37.0-37.5	20180321	0930	SOIL	397	3.97E-04
PT-PC178-45.0-45.5	45.0-45.5	20180321	0930	SOIL	578	5.78E-04
PT-PC178-55.0-55.5	55.0-55.5	20180321	0930	SOIL	503	5.03E-04
PT-PC178-61.0-61.5	61.0-61.5	20180321	0930	SOIL	205	2.05E-04
Blank	N/A	20180321	0930	BLANK	ND	ND
SRM D094-542	N/A	20180321	0930	SRM	3940	3.94E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Lower	Upper
SRM D096-542	107	75-125	3890	2918	4863

ND = Not Detected

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-PC178-72.5-73.0	72.5-73.0	20180321	0930	SOIL	2357	2.36E-03
PT-PC195-57.0-57.5	57.0-57.6	20180321	0930	SOIL	106	1.06E-04
PT-PC195-68.5-69.0	68.5-69.0	20180321	0930	SOIL	488	4.88E-04
PT-PCDB4-33.5-34.5	33.5-34.6	20180321	0930	SOIL	861	8.61E-04
PT-PCDB4-43.5-44.5	43.5-44.6	20180321	0930	SOIL	585	5.85E-04
PT-PCDB4-57.0-58.0	57.0-58.0	20180321	0930	SOIL	302	3.02E-04
PT-PCDB4-68.0-69.0	68.0-69.0	20180321	0930	SOIL	300	3.00E-04
PT-PCDB4-71.0-72.0	71.0-72.1	20180321	0930	SOIL	883	8.83E-04
PT-PCDB7-34.5-35.5	34.5-35.6	20180322	1000	SOIL	202	2.02E-04
PT-PCDB7-43.0-44.0	43.0-44.0	20180322	1000	SOIL	12990	1.30E-02
PT-PCDB7-48.0-49.0	48.0-49.0	20180322	1000	SOIL	4427	4.43E-03
PT-PCDB7-54.5-55.5	54.5-55.5	20180322	1000	SOIL	6668	6.67E-03
PT-PCDB10-20.0-20.3	20.0-20.3	20180322	1000	SOIL	300	3.00E-04
PT-PCDB10-33.3-33.8	33.3-33.8	20180322	1000	SOIL	791	7.91E-04
PT-PCDB10-40.4-40.9	40.4-40.9	20180322	1000	SOIL	397	3.97E-04
PT-PCDB10-48.7-49.0	48.7-49.0	20180322	1000	SOIL	104	1.04E-04
PT-PCDB10-58.2-58.7	58.2-58.7	20180322	1000	SOIL	487	4.87E-04
PT-PCDB10-68.5-69.0	68.5-69.0	20180322	1000	SOIL	392	3.92E-04
PT-PCDB10-77.8-78.3	77.8-78.3	20180322	1000	SOIL	601	6.01E-04
PT-PCDB10-85.5-86.0	85.5-86.0	20180322	1000	SOIL	493	4.93E-04
Blank	N/A	20180322	1000	BLANK	ND	ND
SRM D094-542	N/A	20180322	1000	SRM	4086	4.09E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D096-542	107	75-125	3890	2918	4863

ND = Not Detected

PTS File No: 47354
 Client: Ramboll Environ
 Report Date: 04/02/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 21-41400C, Phase M03D

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-PCDB11-16.7-17.0	16.7-17.0	20180322	1000	SOIL	498	4.98E-04
PT-PCDB11-29.0-29.5	29.0-29.5	20180322	1000	SOIL	294	2.94E-04
PT-PCDB11-40.8-41.3	40.8-41.3	20180322	1000	SOIL	497	4.97E-04
PT-PCDB11-50.0-50.5	50.0-50.5	20180322	1000	SOIL	202	2.02E-04
PT-PCDB11-58.5-58.8	58.5-58.8	20180322	1000	SOIL	29	2.92E-05
PT-PCDB11-68.3-68.8	68.3-68.8	20180322	1000	SOIL	203	2.03E-04
PT-PCDB11-78.7-79.2	78.7-79.2	20180322	1000	SOIL	301	3.01E-04
PT-PCDB11-86.2-86.7	86.2-86.7	20180322	1000	SOIL	401	4.01E-04

Blank	N/A	20180322	1000	BLANK	ND	ND
SRM D094-542	N/A	20180322	1000	SRM	3950	3.95E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D096-542	107	75-125	3890	2918	4863

ND = Not Detected

CHAIN-OF-CUSTODY FORM

No. 12901

USE PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID **NERT**
 PROJECT LOCATION **Henderson, NV** DATE **8/16/17**
 PROJECT NUMBER **2141400C, M03B** YEAR **2017**
 SAMPLER **Amy Manson** SIGNATURE *Amy Manson*

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-M197-23.0-23.3	7/17/2017	0920	23.0-23.3	✓	S	1	U	NO	X	<p style="font-size: 2em; color: blue;">47354</p> <p>* Hold samples pending instruction from J. Donovan/Ramboll Environ</p>
PT-M197-52.5-53.0		0929	52.5-53.0	✓	S	1	U	NO	X	
PT-M197-64.2-64.5		0938	64.2-64.5	✓	S	1	U	NO	X	
PT-M197-82.5-83.0		0946	82.5-83.0	✓	S	1	U	NO	X	
PT-M197-119.0-119.5		1008	119.0-119.5	✓	S	1	U	NO	X	
PT-M197-124.0-124.3		1016	124.0-124.3	✓	S	1	U	NO	X	
PT-M197-135.0-135.4		1025	135.0-135.4	✓	S	1	U	NO	X	
PT-M197-138.5-139.0		1032	138.5-139.0	✓	S	1	U	NO	X	
PT-M197-145.5-146.0		1040	145.5-146.0	✓	S	1	U	NO	X	
PT-M223-7.5-7.8	7/18/2017	0908	7.5-7.8	✓	S	1	U	NO	X	
PT-M223-13.0-13.3		0915	13.0-13.3	✓	S	1	U	NO	X	
PT-M223-27.5-27.8		0932	27.5-27.8	✓	S	1	U	NO	X	
TOTAL										

RELINQUISHED BY *Amy Manson (FedEx)* TIME/DATE **8/16/17, 1330** RECEIVED BY COMPANY *PTS Labs, Inc*
 RELINQUISHED BY *Amy Manson* TIME/DATE **8/17/17** 8:48 TURNAROUND TIME (CIRCLE ONE) **24 HOURS** 5 DAYS 48 HOURS **NORMAL**
 RELINQUISHED BY *Amy Manson* TIME/DATE **8/17/17** 75.9°F SAMPLE INTEGRITY INTACT N Y

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
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 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
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CHAIN-OF-CUSTODY FORM

No. 12900

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT MSA #
 PROJECT LOCATION Henderson, NV DATE 8/16/17 FIELD PERSON# Amy Manion
 PROJECT NUMBER 2141400C, M03B LABORATORY PTS PROJECT MANAGER Ross Russell
 SAMPLER Amy Manion SIGNATURE *Amy Manion* YEAR 2017

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-M226-7.5-7.8	7/18/2017	0958	7.5-7.8	✓	S	1	U	NO	XX	* Hold samples pending instruction from J. Donovan / Ramboll Environ
PT-M226-13.7-14.0	↓	1007	13.7-14.0	✓	✓	✓	✓	✓	XX	
PT-M226-36.0-36.5	↓	1015	36.0-36.5	✓	✓	✓	✓	✓	XX	
PT-M195-46.5-47.0	7/19/2017	1000	46.5-47.0	✓	✓	✓	✓	✓	XX	
PT-M195-60.0-60.5	↓	1005	60.0-60.5	✓	✓	✓	✓	✓	XX	
PT-M195-67.5-67.8	↓	1020	67.5-67.8	✓	✓	✓	✓	✓	XX	
PT-M195-79.5-80.0	↓	1030	79.5-80.0	✓	✓	✓	✓	✓	XX	
PT-M195-101.0-101.5	↓	1040	101.0-101.5	✓	✓	✓	✓	✓	XX	
PT-M195-146.0-146.5	↓	1050	146.0-146.5	✓	✓	✓	✓	✓	XX	
PT-RJ15-54.5-55.0	7/31/17	0830	54.5-55.0	✓	✓	✓	✓	✓	XX	
PT-RJ15-75.0-75.5	↓	0850	75.0-75.5	✓	✓	✓	✓	✓	XX	
PT-RJ15-96.0-96.5	↓	0905	96.0-96.5	✓	✓	✓	✓	✓	XX	
TOTAL										

47354

RELINQUISHED BY *Amy Manion* (FedEx) TIME/DATE 1530 / 8/16/17 RECEIVED BY COMPANY *PTS Labs, Inc*
 RELINQUISHED BY TIME/DATE 8:48 8/17/17 RECEIVED BY COMPANY
 RELINQUISHED BY TIME/DATE SAMPLE INTEGRITY INTACT N TEMP 74.3°F
 SAME DAY 72 HOURS 5 DAYS 48 HOURS **NORMAL** SAMPLE INTEGRITY INTACT Y N

- SWBU Office Locations:
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CHAIN-OF-CUSTODY FORM

No. 12903

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT
 PROJECT LOCATION Henderson, NV DATE 8/16/2017
 PROJECT NUMBER 2141400C, M03B YEAR 2017
 SAMPLER Army Manion SIGNATURE *[Signature]*

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-RI15-116.0-116.5	8/1/2017	1105	116.0-116.5	1	S	1	U	ND	X	
PT-RI15-134.0-134.5		1125	134.0-134.5	1		1			X	
PT-PCDB4-33.5-34.5		1225	33.5-34.5	1		1			X	
PT-PCDB4-43.5-44.5		1300	43.5-44.5	1		1			X	
PT-PCDB4-57.0-58.0		1320	57.0-58.0	1		2			X	
PT-PCDB4-68.0-69.0		1415	68.0-69.0	1		2			X	
PT-PCDB4-71.0-72.0		1435	71.0-72.0	1		1			X	
PT-PCDB7-34.5-35.5		1600	34.5-35.5	1		2			X	
PT-PCDB7-43.0-44.0		1630	43.0-44.0	1		1			X	
PT-PCDB7-48.0-49.0		1530	48.0-49.0	1		1			X	
PT-PCDB7-54.5-55.5		1500	54.5-55.5	1		2			X	
TOTAL										

RELINQUISHED BY *[Signature]* TIME/DATE 1330 / 8/16/17 RECEIVED BY COMPANY *[Signature]* **PTS Labs, Inc**
 RELINQUISHED BY TIME/DATE TIME/DATE 8:48 8/17/17
 RELINQUISHED BY TIME/DATE TIME/DATE 77.6°F
 SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS **NORMAL**
 SAMPLE INTEGRITY INTACT Y N
 SAMPLE INTEGRITY INTACT Y N

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 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016
 501 West Broadway, Suite 800, San Diego, CA 92101
 +1 949 261 5151 +1 949 261 6202
 +1 213 943 6300 +1 213 943 6301
 +1 602 734 7700 +1 602 734-7701
 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No. 12904

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID **NERT**
 PROJECT LOCATION **Henderson, NV** DATE **8/16/17** FIELD PERSON# **Amy Manion**
 PROJECT NUMBER **2141400C, M03B** YEAR **2017** PROJECT MANAGER **Ross Russell**
 SAMPLER **Amy Manion** LABORATORY **PTS** SIGNATURE *Amy M*

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-PC178-27.7-28.0	8/9/2017	1335	27.7-28.0	✓	S	1	U	NO	X	
PT-PC178-37.0-37.5		1343	37.0-37.5	✓					X	
PT-PC178-45.0-45.5		1350	45.0-45.5	✓					X	
PT-PC178-55.0-55.5		1358	55.0-55.5	✓					X	
PT-PC178-61.0-61.5		1406	61.0-61.5	✓					X	
PT-PC178-72.5-73.0		1414	72.5-73.0	✓					X	
PT-PC195-57.0-57.5		1317	57.0-57.5	✓					X	
PT-PC195-68.5-69.0		1326	68.5-69.0	✓					X	
PT-PCDB11-16.7-17.0	8/12/2017	1142	16.7-17.0	✓					X	
PT-PCDB11-29.0-29.5		1148	29.0-29.5	✓					X	
PT-PCDB11-40.8-41.3		1157	40.8-41.3	✓					X	
PT-PCDB11-50.0-50.5		1208	50.0-50.5	✓					X	
TOTAL										

47354

* Hold pending instruction from J. Donovan/Ramboll Environ

RELINQUISHED BY *Amy M* (FedEx) TIME/DATE **1330/8/16/17** RECEIVED BY COMPANY *PTS Labs, Inc*
 RELINQUISHED BY TIME/DATE TIME/DATE
 RELINQUISHED BY TIME/DATE TIME/DATE
 SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS **NORMAL**
 SAMPLE INTEGRITY INTACT Y N
 INTACT Y N TEMP **77.6°F**

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 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No. 12856

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT FIELD PERSON# Amy Maron
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell
 PROJECT NUMBER 2141400C, M03B LABORATORY PTS
 SAMPLER Amy Maron SIGNATURE [Signature] DATE 8/16/17 YEAR 2017

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-PCDB11-58.5-58.8	8/12/2017	1217	58.5-58.8	/	S	1	U	NO	X	<p style="text-align: center;">47354</p> <p>* Hold samples pending instruction from J. Donovan / Ramboll Environ</p>
PT-PCDB11-68.3-68.8		1312	68.3-68.8	/		1			X	
PT-PCDB11-78.7-79.2		1320	78.7-79.2	/		1			X	
PT-PCDB11-86.2-86.7		1328	86.2-86.7	/		1			X	
PT-PCDB10-20.0-20.3	8/13/2017	1350	20.0-20.3	/		1			X	
PT-PCDB10-33.3-33.8		1307	33.3-33.8	/		1			X	
PT-PCDB10-40.4-40.9		1316	40.4-40.9	/		1			X	
PT-PCDB10-48.7-49.0		1322	48.7-49.0	/		1			X	
PT-PCDB10-58.2-58.7		1330	58.2-58.7	/		1			X	
PT-PCDB10-68.5-69.0		1338	68.5-69.0	/		1			X	
PT-PCDB10-77.8-78.3		1347	77.8-78.3	/		1			X	
PT-PCDB10-85.5-86.0		1356	85.5-86.0	/		1			X	
TOTAL										

RELINQUISHED BY [Signature] (FedEx) TIME/DATE 8/16/17, 1330 RECEIVED BY COMPANY PTS Labs, Inc
 RELINQUISHED BY TIME/DATE _____ RECEIVED BY COMPANY _____
 RELINQUISHED BY TIME/DATE _____ RECEIVED BY COMPANY _____

TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS **NORMAL**

SAMPLE INTEGRITY INTACT Y N
 INTACT Y N TEMP 77.6°F

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

Page 5 of 6

CHAIN-OF-CUSTODY FORM

No. 12857

USE PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID **NERT**
 PROJECT LOCATION Henderson, NV
 PROJECT NUMBER 2141400C, M03B
 SAMPLER Amy Mannon
 FIELD PERSON# _____
 PROJECT MANAGER Ross Russell
 LABORATORY PTS
 SIGNATURE [Signature]

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-PC170-22.5-22.8	8/16/2017	1106	22.5-22.8	/	S	1	U	NO	X	<p style="font-size: 2em; color: blue;">47354</p> <p>* Hold samples pending instruction from J. Donovan / Ramboll Environ</p>
PT-PC170-37.0-37.5		1113	37.0-37.5	/				X		
PT-PC170-43.5-44.0		1120	43.5-44.0	/				X		
PT-PC170-47.5-48.0		1128	47.5-48.0	/				X		
PT-PC170-49.0-49.5		1134	49.0-49.5	/				X		
PT-PC170-50.2-50.7		1140	50.2-50.7	/				X		
PT-PC167-11.0-11.3		1045	11.0-11.3	/				X		
PT-PC167-17.8-18.3		1053	17.8-18.3	/				X		
PT-PC167-21.3-21.8		1102	21.3-21.8	/				X		
TOTAL										

RECEIVED BY COMPANY PTS Labs, Inc TIME/DATE 8:48 8/17/17 SAME DAY 72 HOURS
 RECEIVED BY COMPANY _____ TIME/DATE _____ 24 HOURS 5 DAYS
 RECEIVED BY COMPANY _____ TIME/DATE _____ 48 HOURS NORMAL
 SAMPLE INTEGRITY INTACT Y N SAMPLE INTEGRITY INTACT Y N
 TURNAROUND TIME (CIRCLE ONE) Y N TEMP 76.4°F

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934



5730 Centralcrest St. • Houston, TX 77092
Telephone (713) 316-1800 • Fax (877) 225-9953

January 7, 2018

Ross Russell, PG
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

Re: PTS File No: 47398
Project Name: NERT
Project Number: 2141400C M03B

Dear Mr. Russell,

Please find enclosed report for Physical Properties analyses conducted upon samples received from your NERT project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please contact myself or Emeka Anazodo at (713) 316-1800.

Sincerely,
PTS Laboratories, Inc.

Rick Schweizer

Rick Schweizer
Laboratory Supervisor

Encl.

Project Name: NERT
 Project Number: 2141400C MO3B

PTS File No: 47398
 Client: Ramboll Environ

TEST PROGRAM - 20171004

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	USCS Soil Classification ASTM D2487	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
Date Received: 20170927		Plugs:	Grab	Grab	Calc.	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-PC162-11.0-11.5	11.0 - 11.5	N/A	X	X	X					X	Glass jar
PT-PC162-15.0-15.5	15.0 - 15.5	N/A	X	X	X					X	Glass jar
PT-PC162-23.5-24.0	23.5 - 24.0	N/A	X	X	X					X	Glass jar
PT-PC162-35.0-35.5	35.0 - 35.5	N/A	X	X	X					X	Glass jar
PT-PC163-12.5-13.0	12.5 - 13.0	N/A	X	X(1)	X					X	Glass jar
PT-PC164-12.5-13.0	12.5 - 13.0	N/A	X	X(1)	X					X	Glass jar
PT-PC164-32.0-32.5	32.0 - 32.5	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PC164-36.0-36.8	36.0 - 36.8	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PC165-12.0-12.3	12.0 - 12.3	N/A	X	X	X					X	Glass jar
PT-PC165-31.0-31.3	31.0 - 31.3	N/A	X	X	X					X	Glass jar
PT-PC165-36.7-37.0	36.7 - 37.0	N/A	X	X	X					X	Glass jar
PT-PC166-11.5-11.8	11.5 - 11.8	N/A	X	X	X					X	Glass jar
PT-PC166-22.0-22.3	22.0 - 22.3	N/A	X	X	X					X	Glass jar
PT-PC166-33.7-34.2	33.7 - 34.2	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PC172-13.5-14.0	13.5 - 14.0	N/A	X	X	X					X	Glass jar
PT-PC172-18.5-19.0	18.5 - 19.0	N/A	X	X	X					X	Glass jar
PT-PC172-23.5-24.0	23.5 - 24.0	N/A	X	X(1)	X					X	Glass jar
PT-PC175-12.7-13.0	12.7 - 13.0	N/A	X	X	X					X	Glass jar
PT-PC175-23.0-23.3	23.0 - 23.3	N/A	X	X	X					X	Glass jar
PT-PC175-32.7-33.0	32.7 - 33.0	N/A	X	X	X					X	Glass jar
PT-PC175-39.5-39.8	39.5 - 39.8	N/A	X	X(1)	X					X	Glass jar
PT-PC188-10.5-11.0	10.5 - 11.0	N/A	X	X	X					X	Glass jar
PT-PC188-39.5-40.5	39.5 - 40.5	N/A	X	X(1)	X	X	X	X		X	wrapped core
PT-PC188-56.0-56.7	56.0 - 56.7	N/A	X	X	X	X	X	X		X	wrapped core
PT-PC188-66.0-66.7	66.0 - 66.7	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PC188-75.5-76.3	75.5 - 76.3	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PC188-86.5-87.0	86.5 - 87.0	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PC193-11.0-11.5	11.0 - 11.5	N/A	X	X	X					X	Glass jar
PT-PC193-14.5-15.5	14.5 - 15.5	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PC193-26.3-27.0	26.3 - 27.0	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PC193-36.3-37.0	36.3 - 37.0	N/A	X	X(1)	X	X	X	X		X	wrapped core
PT-PC193-46.3-47.0	46.3 - 47.0	N/A	X	X(1)	X	X	X	X		X	wrapped core
PT-PCDB5-16.0-16.3	16.0 - 16.3	N/A	X	X(1)	X					X	Glass jar
PT-PCDB5-46.5-47.0	46.5 - 47.0	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB5-54.5-55.0	54.5 - 55.0	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB5-64.0-64.5	64.0 - 64.5	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB5-75.0-75.5	75.0 - 75.5	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB5-87.0-87.5	87.0 - 87.5	N/A	X	X(1)	X	X	X	X	X	X	wrapped core

Project Name: NERT
 Project Number: 2141400C MO3B

PTS File No: 47398
 Client: Ramboll Environ

TEST PROGRAM - 20171004

CORE ID	Depth ft.	Core Recovery ft.	Combined Grain Size Analysis ASTM D4464/422	Atterberg Limits ASTM D4318	USCS Soil Classification ASTM D2487	Moisture Content D2216	Dry Bulk Density API RP40	Effective Porosity ASTM D425	Hydraulic Conductivity API RP40/EPA 9100	TOC/foc Walkley-Black	Comments
		Plugs:	Grab	Grab	Calc.	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"	Grab	
PT-PCDB8-8.0-8.5	8.0 - 8.5	N/A	X	X(1)	X					X	Glass jar
PT-PCDB8-23.3-23.8	23.3 - 23.8	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB8-36.0-36.5	36.0 - 36.5	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB8-50.0-50.5	50.0 - 50.5	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB8-64.5-65.0	64.5 - 65.0	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB8-80.3-80.8	80.3 - 80.8	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB8-88.3-89.5	88.3 - 89.5	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB9-14.5-15.0	14.5 - 15.0	N/A	X	X(1)	X					X	Glass jar
PT-PCDB9-21.5-22.0	21.5 - 22.0	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB9-31.3-32.0	31.3 - 32.0	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB9-40.5-41.0	40.5 - 41.0	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB9-55.0-55.5	55.0 - 55.5	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB9-67.0-67.5	67.0 - 67.5	N/A	X	X	X	X	X	X	X	X	wrapped core
PT-PCDB9-79.5-80.2	79.5 - 80.2	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
PT-PCDB9-87.0-87.6	87.0 - 87.6	N/A	X	X(1)	X	X	X	X	X	X	wrapped core
TOTALS:		#REF!	53	53	53	30	30	30	26	53	53

Laboratory Test Program Notes

Contaminant identification: perchlorate, metals, VOCs

Standard TAT for basic analysis is 10-15 business days.

Grain Size Analysis: Combined laser/sieve method; includes tabular data, graphics and statistical sorting in Excel format.

Effective Porosity: Includes Total Porosity.

USCS Soil Classification by ASTM D2487 requires Atterberg Limits and Grain Size Analysis (included as part of Test Program).

Note (1): Laboratory to verify Atterberg Limits are required to classify fine fraction per Ramboll Environ Physical Testing Requests.

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422)

PROJECT NAME: NERT
PROJECT NO: 2141400C MO3B

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size		Silt/Clay	
					Coarse	Medium		Fine
PT-PC162-11.0-11.5	11.0 - 11.5	Medium Sand	0.604	10.47	20.73	24.06	32.29	12.45
PT-PC162-15.0-15.5	15.0-15.5	Medium sand	0.341	8.03	14.84	23.66	39.62	13.85
PT-PC162-23.5-24.0	23.5-24.0	Medium sand	0.784	10.57	18.53	33.94	27.36	9.59
PT-PC162-35.0-35.5.0	35.5-35.0	Fine sand	0.109	1.93	1.42	9.95	61.09	25.61
PT-PC163-12.5-13.0	12.5-13.0	Fine sand	0.164	0.87	3.45	16.96	62.11	16.61
PT-PC164-12.5-13.0	12.5-13.0	Coarse sand	1.647	19.28	26.72	23.61	25.66	4.74
PT-PC164-32.0-32.5	32.0-32.5	Fine sand	0.069	0.00	0.00	13.90	32.85	53.25
PT-PC164-36.0-36.8	36.0-36.8	Silt	0.052	0.00	0.00	5.65	28.69	65.66
PT-PC165-12.0-12.3	12.0-12.3	Coarse sand	2.355	37.08	15.88	23.83	18.66	4.54
PT-PC165-31.0-31.3	31.0-31.3	Medium sand	1.053	12.32	20.78	37.70	23.48	5.73
PT-PC165-36.7-37.0	36.7-37.0	Gravel	4.699	49.63	22.18	16.11	8.21	3.88
PT-PC166-11.5-11.8	11.5-11.8	Coarse sand	1.132	19.71	20.81	25.26	25.50	8.72
PT-PC166-22.0-22.3	22.0-22.3	Coarse sand	1.842	24.25	24.23	27.52	18.53	5.47
PT-PC166-33.7-34.2	33.7-34.2	Medium sand	0.323	9.42	13.45	24.75	27.77	24.62
PT-PC172-13.5-14.0	13.5-14.0	Coarse sand	3.104	36.22	26.54	22.60	11.79	2.85
PT-PC172-18.5-19.0	18.5-19.0	Medium sand	0.953	16.07	20.96	27.38	27.81	7.77
PT-PC172-23.5-24.0	23.5-24.0	Medium sand	0.502	13.84	14.96	24.39	34.96	11.85
PT-PC175-12.7-13.0	12.7-13.0	Medium sand	0.469	7.31	16.62	28.02	34.41	13.64
PT-PC175-23.0-23.3	23.0-23.3	Fine sand	0.130	4.24	6.57	18.72	49.08	21.39
PT-PC175-32.7-33.0	32.7-33.0	Medium sand	0.272	10.87	10.10	22.48	40.54	16.01
PT-PC175-39.5-39.8	39.5-39.8	Fine sand	0.100	0.00	0.20	4.21	61.80	33.78
PT-PC188-10.5-11.0	10.5-11.0	Medium sand	0.740	12.69	18.06	29.65	28.21	11.39
PT-PC188-39.5-40.5	39.5-40.5	Fine sand	0.084	0.00	0.15	14.12	40.97	44.76
PT-PC188-56.0-56.7	56.0-56.7	Fine sand	0.143	0.00	0.00	17.40	60.59	22.02
PT-PC188-66.0-66.7	66.0-66.7	Fine sand	0.089	0.00	0.00	15.48	41.64	42.88
PT-PC188-75.5-76.3	75.5-76.3	Fine sand	0.067	0.00	0.00	15.21	31.11	53.67
PT-PC188-86.5-87.0	86.5-87.0	Fine sand	0.082	0.00	0.00	16.18	36.77	47.05

(1) Based on Mean from Trask

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422)

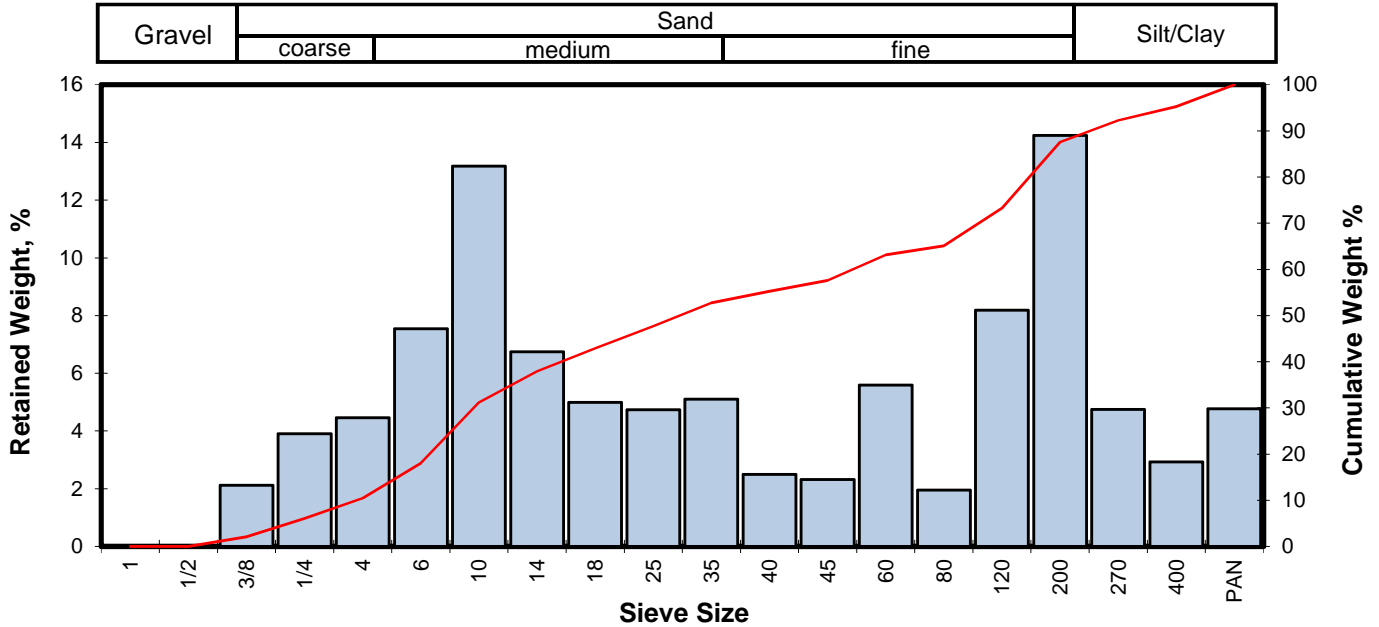
PROJECT NAME: NERT
PROJECT NO: 2141400C MO3B

Sample ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size		Silt/Clay	
					Coarse	Medium		Fine
PT-PC193-11.0-11.5	11.0-11.5	Medium sand	0.529	8.91	15.48	30.99	32.72	11.90
PT-PC193-14.5-15.5	14.5-15.5	Fine sand	0.067	0.00	0.00	9.27	36.40	54.33
PT-PC193-26.3-27.0	26.3-27.0	Fine sand	0.099	0.00	0.00	15.84	40.46	43.69
PT-PC193-36.3-37.0	36.3-37.0	Fine sand	0.097	0.00	0.00	5.91	60.05	34.04
PT-PC193-46.3-47.0	46.3-47.0	Fine sand	0.094	0.00	0.00	9.05	52.16	38.79
PT-PC DB5 - 16.0-16.3	16.0-16.3	Coarse sand	1.658	14.83	29.59	32.86	18.10	4.61
PT-PC DB5 -46.5-47.0	46.5-47.0	Coarse sand	1.332	25.78	16.22	32.62	23.24	2.14
PT-PC DB5 -54.5-55.0	54.5-55.0	Fine sand	0.087	0.00	0.00	10.60	47.79	41.61
PT-PC DB5 -64.0-64.5	64.0-64.5	Fine sand	0.202	0.00	0.00	29.40	48.53	22.07
PT-PC DB5 -75.0-75.5	75.0-75.5	Fine sand	0.073	0.00	0.00	13.16	36.34	50.49
PT-PC DB5 -87.0-87.5	87.0-87.5	Medium sand	0.393	0.19	3.63	44.11	36.13	15.93
PT-PC DB8 - 8.0-8.5	8.0-8.5	Coarse sand	2.416	31.92	22.82	25.19	15.59	4.48
PT-PC DB8 -23.3-23.8	23.3-23.8	Silt	0.046	0.00	0.00	5.94	13.43	80.63
PT-PC DB8 -36.0-36.5	36.0-36.5	Fine sand	0.071	0.00	0.00	9.23	38.95	51.82
PT-PC DB8 -50.0-50.5	50.0-50.5	Fine sand	0.069	0.00	0.00	8.24	38.46	53.30
PT-PC DB8 -64.5-65.0	64.5-65.0	Fine sand	0.071	0.00	0.00	5.45	42.92	51.63
PT-PC DB8 -80.3-80.8	80.3-80.8	Fine sand	0.084	1.20	2.46	6.70	45.62	44.02
PT-PC DB8 -88.3-89.5	88.3-89.5	Fine sand	0.144	0.00	0.00	18.30	61.71	19.99
PT-PC DB9 -14.5-15.0	14.5-15.0	Medium sand	0.616	9.71	16.42	30.77	28.49	14.61
PT-PC DB9 -21.5-22.0	21.5-22.0	Fine sand	0.210	0.00	0.00	25.91	66.47	7.61
PT-PC DB9 -31.3-32.0	31.3-32.0	Fine sand	0.066	0.00	0.00	10.21	36.31	53.48
PT-PC DB9 -40.5-41.0	40.5-41.0	Fine sand	0.070	0.00	0.00	11.86	35.14	53.00
PT-PC DB9 -55.0-55.5	55.0-55.5	Fine sand	0.077	0.00	0.00	5.35	46.34	48.31
PT-PC DB9 -67.0-67.5	67.0-67.5	Silt	0.062	0.00	0.00	2.10	38.57	59.33
PT-PC DB9 -79.5-80.2	79.5-80.2	Fine sand	0.065	0.00	0.00	9.37	20.01	70.62
PT-PC DB9 -87.0-87.6	87.0-87.6	Fine sand	0.120	0.00	0.00	17.55	46.36	36.09

(1) Based on Mean from Trask

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC162-11.0-11.5
 Depth, ft: 11.0 - 11.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	6.60	2.12	2.12
0.2500	6.351	-2.67	1/4	12.17	3.90	6.02
0.1873	4.757	-2.25	4	13.89	4.45	10.47
0.1324	3.364	-1.75	6	23.53	7.55	18.02
0.0787	2.000	-1.00	10	41.11	13.18	31.20
0.0557	1.414	-0.50	14	21.02	6.74	37.94
0.0394	1.000	0.00	18	15.55	4.99	42.93
0.0278	0.707	0.50	25	14.78	4.74	47.67
0.0197	0.500	1.00	35	15.90	5.10	52.77
0.0166	0.420	1.25	40	7.77	2.49	55.26
0.0139	0.354	1.50	45	7.24	2.32	57.58
0.0098	0.250	2.00	60	17.42	5.59	63.17
0.0070	0.177	2.50	80	6.08	1.95	65.12
0.0049	0.125	3.00	120	25.53	8.19	73.31
0.0029	0.074	3.75	200	44.43	14.25	87.55
0.0021	0.053	4.25	270	14.79	4.74	92.30
0.0015	0.037	4.75	400	9.13	2.93	95.22
			PAN	14.89	4.78	100.00
TOTALS				311.83	100.00	100.00

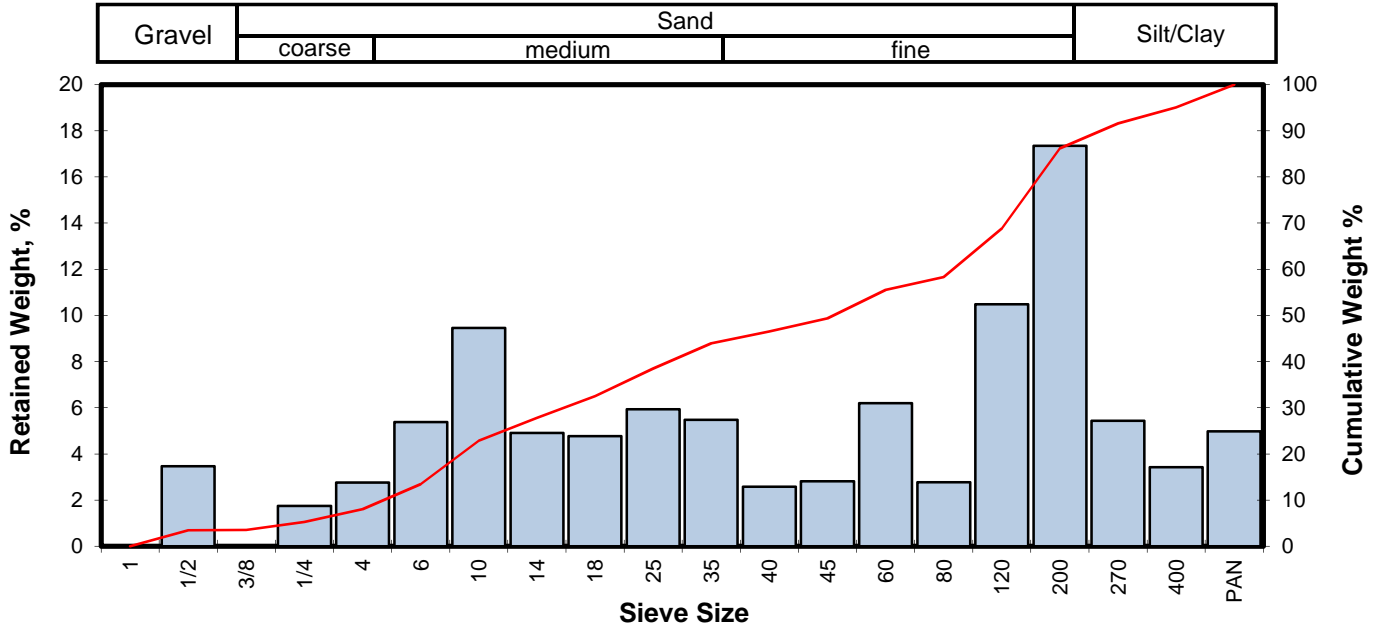
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.82	0.2778	7.055
10	-2.29	0.1931	4.905
16	-1.88	0.1453	3.690
25	-1.35	0.1006	2.554
40	-0.29	0.0483	1.226
50	0.73	0.0238	0.604
60	1.72	0.0120	0.304
75	3.09	0.0046	0.118
84	3.56	0.0033	0.085
90	4.01	0.0024	0.062
95	4.71	0.0015	0.038

Measure	Trask	Inman	Folk-Ward
Median, phi	0.73	0.73	0.73
Median, in.	0.0238	0.0238	0.0238
Median, mm	0.604	0.604	0.604
Mean, phi	-0.42	0.84	0.80
Mean, in.	0.0526	0.0220	0.0226
Mean, mm	1.336	0.559	0.573
Sorting	4.662	2.723	2.503
Skewness	0.908	0.041	0.049
Kurtosis	0.252	0.383	0.695
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	10.47
Coarse Sand	10	20.73
Medium Sand	40	24.06
Fine Sand	200	32.29
Silt/Clay	<200	12.45
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC162-15.0-15.5
 Depth, ft: 15.0-15.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	11.08	3.47	3.47
0.3740	9.500	-3.25	3/8	0.15	0.05	3.51
0.2500	6.351	-2.67	1/4	5.61	1.75	5.27
0.1873	4.757	-2.25	4	8.84	2.77	8.03
0.1324	3.364	-1.75	6	17.22	5.39	13.42
0.0787	2.000	-1.00	10	30.21	9.45	22.87
0.0557	1.414	-0.50	14	15.68	4.91	27.78
0.0394	1.000	0.00	18	15.26	4.77	32.55
0.0278	0.707	0.50	25	18.96	5.93	38.48
0.0197	0.500	1.00	35	17.49	5.47	43.95
0.0166	0.420	1.25	40	8.25	2.58	46.53
0.0139	0.354	1.50	45	9.01	2.82	49.35
0.0098	0.250	2.00	60	19.82	6.20	55.55
0.0070	0.177	2.50	80	8.87	2.77	58.33
0.0049	0.125	3.00	120	33.52	10.49	68.81
0.0029	0.074	3.75	200	55.43	17.34	86.15
0.0021	0.053	4.25	270	17.39	5.44	91.59
0.0015	0.037	4.75	400	10.95	3.43	95.02
			PAN	15.93	4.98	100.00
TOTALS				319.67	100.00	100.00

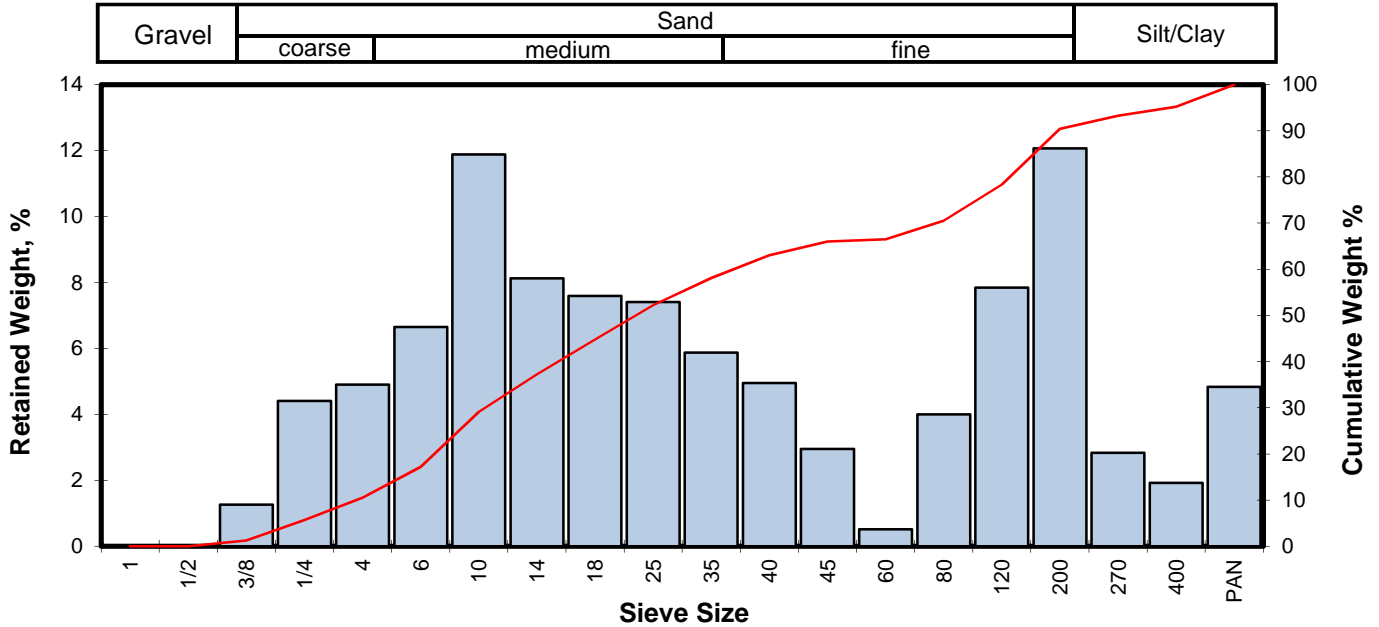
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.76	0.2659	6.754
10	-2.07	0.1650	4.191
16	-1.55	0.1149	2.919
25	-0.78	0.0677	1.721
40	0.64	0.0253	0.642
50	1.55	0.0134	0.341
60	2.58	0.0066	0.167
75	3.27	0.0041	0.104
84	3.66	0.0031	0.079
90	4.10	0.0023	0.058
95	4.75	0.0015	0.037

Measure	Trask	Inman	Folk-Ward
Median, phi	1.55	1.55	1.55
Median, in.	0.0134	0.0134	0.0134
Median, mm	0.341	0.341	0.341
Mean, phi	0.13	1.06	1.22
Mean, in.	0.0359	0.0189	0.0169
Mean, mm	0.912	0.481	0.429
Sorting	4.071	2.601	2.437
Skewness	1.240	-0.191	-0.170
Kurtosis	0.196	0.442	0.759
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	8.03
Coarse Sand	10	14.84
Medium Sand	40	23.66
Fine Sand	200	39.62
Silt/Clay	<200	13.85
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC162-23.5-24.0
 Depth, ft: 23.5-24.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	3.02	1.26	1.26
0.2500	6.351	-2.67	1/4	10.56	4.41	5.67
0.1873	4.757	-2.25	4	11.74	4.90	10.57
0.1324	3.364	-1.75	6	15.93	6.65	17.22
0.0787	2.000	-1.00	10	28.47	11.88	29.10
0.0557	1.414	-0.50	14	19.46	8.12	37.22
0.0394	1.000	0.00	18	18.18	7.59	44.81
0.0278	0.707	0.50	25	17.74	7.40	52.22
0.0197	0.500	1.00	35	14.07	5.87	58.09
0.0166	0.420	1.25	40	11.87	4.95	63.04
0.0139	0.354	1.50	45	7.07	2.95	65.99
0.0098	0.250	2.00	60	1.23	0.51	66.51
0.0070	0.177	2.50	80	9.58	4.00	70.51
0.0049	0.125	3.00	120	18.78	7.84	78.35
0.0029	0.074	3.75	200	28.90	12.06	90.41
0.0021	0.053	4.25	270	6.79	2.83	93.24
0.0015	0.037	4.75	400	4.60	1.92	95.16
			PAN	11.59	4.84	100.00
TOTALS				239.58	100.00	100.00

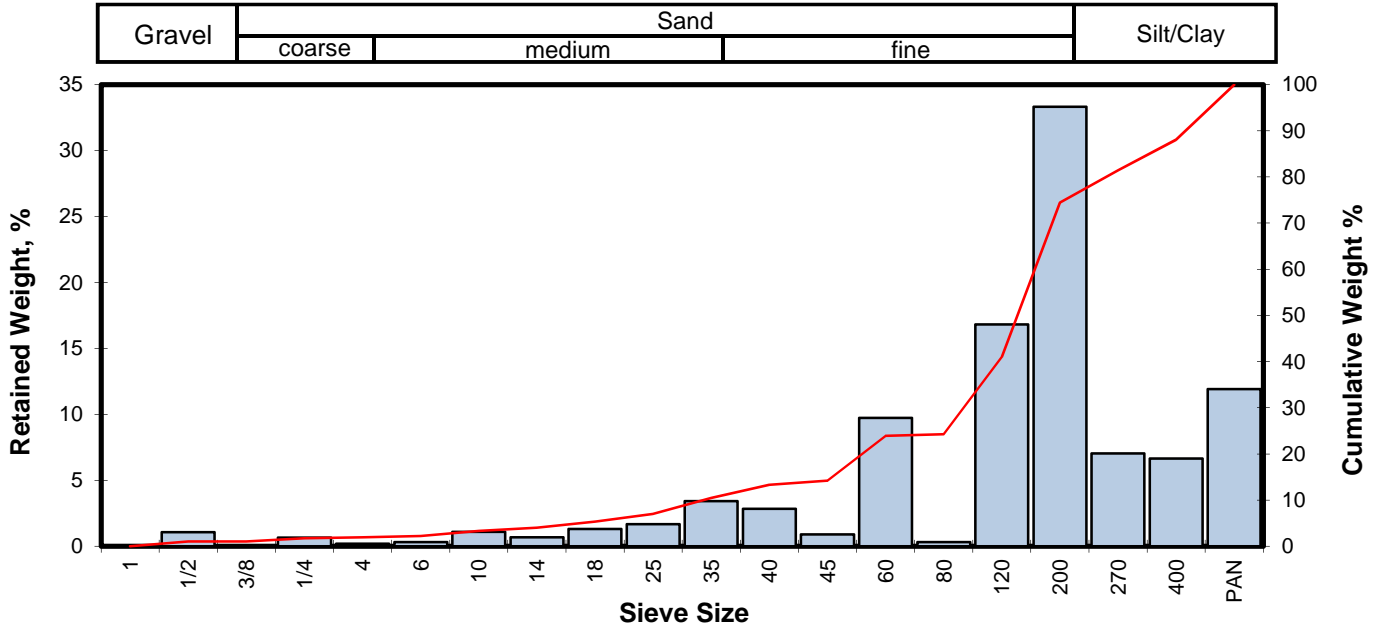
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.76	0.2658	6.751
10	-2.30	0.1937	4.919
16	-1.84	0.1411	3.584
25	-1.26	0.0942	2.393
40	-0.32	0.0490	1.246
50	0.35	0.0309	0.784
60	1.10	0.0184	0.468
75	2.79	0.0057	0.145
84	3.35	0.0039	0.098
90	3.72	0.0030	0.076
95	4.71	0.0015	0.038

Measure	Trask	Inman	Folk-Ward
Median, phi	0.35	0.35	0.35
Median, in.	0.0309	0.0309	0.0309
Median, mm	0.784	0.784	0.784
Mean, phi	-0.34	0.76	0.62
Mean, in.	0.0500	0.0233	0.0256
Mean, mm	1.269	0.593	0.651
Sorting	4.063	2.597	2.429
Skewness	0.751	0.156	0.162
Kurtosis	0.232	0.437	0.756
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	10.57
Coarse Sand	10	18.53
Medium Sand	40	33.94
Fine Sand	200	27.36
Silt/Clay	<200	9.59
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC162-35.0-35.5.0
 Depth, ft: 35.5-35.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	2.59	1.06	1.06
0.3740	9.500	-3.25	3/8	0.00	0.00	1.06
0.2500	6.351	-2.67	1/4	1.62	0.67	1.73
0.1873	4.757	-2.25	4	0.49	0.20	1.93
0.1324	3.364	-1.75	6	0.76	0.31	2.24
0.0787	2.000	-1.00	10	2.69	1.11	3.35
0.0557	1.414	-0.50	14	1.66	0.68	4.03
0.0394	1.000	0.00	18	3.20	1.31	5.35
0.0278	0.707	0.50	25	4.10	1.68	7.03
0.0197	0.500	1.00	35	8.36	3.43	10.46
0.0166	0.420	1.25	40	6.89	2.83	13.29
0.0139	0.354	1.50	45	2.18	0.90	14.19
0.0098	0.250	2.00	60	23.70	9.74	23.93
0.0070	0.177	2.50	80	0.75	0.31	24.24
0.0049	0.125	3.00	120	40.96	16.83	41.06
0.0029	0.074	3.75	200	81.11	33.32	74.39
0.0021	0.053	4.25	270	17.13	7.04	81.43
0.0015	0.037	4.75	400	16.18	6.65	88.07
			PAN	29.03	11.93	100.00
TOTALS				243.40	100.00	100.00

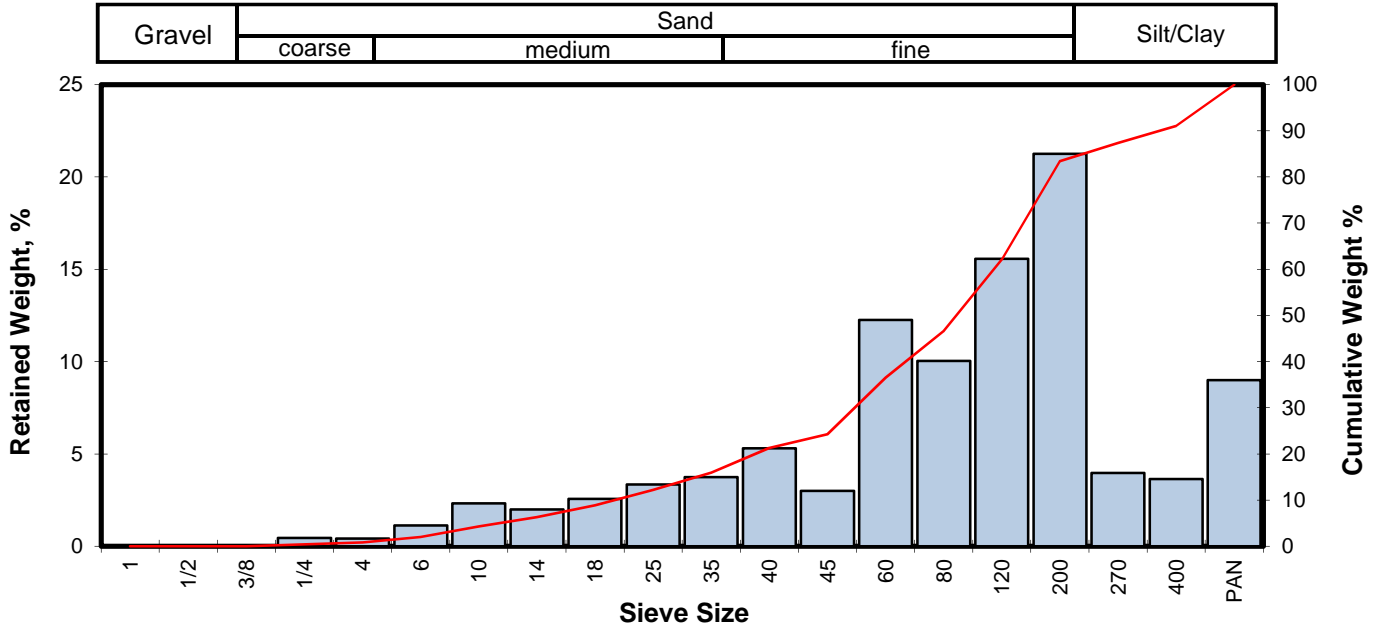
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.13	0.0431	1.095
10	0.93	0.0206	0.524
16	1.59	0.0131	0.332
25	2.52	0.0069	0.174
40	2.97	0.0050	0.128
50	3.20	0.0043	0.109
60	3.43	0.0037	0.093
75	3.79	0.0028	0.072
84	4.44	0.0018	0.046
90	3.98	0.0025	0.063
95	1.99	0.0099	0.252

Measure	Trask	Inman	Folk-Ward
Median, phi	3.20	3.20	3.20
Median, in.	0.0043	0.0043	0.0043
Median, mm	0.109	0.109	0.109
Mean, phi	3.02	3.02	3.08
Mean, in.	0.0048	0.0049	0.0047
Mean, mm	0.123	0.123	0.118
Sorting	1.553	1.425	1.034
Skewness	1.030	-0.128	-1.134
Kurtosis	0.111	-0.255	0.685
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	1.93
Coarse Sand	10	1.42
Medium Sand	40	9.95
Fine Sand	200	61.09
Silt/Clay	<200	25.61
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC163-12.5-13.0
 Depth, ft: 12.5-13.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	1.18	0.45	0.45
0.1873	4.757	-2.25	4	1.08	0.41	0.87
0.1324	3.364	-1.75	6	2.94	1.13	1.99
0.0787	2.000	-1.00	10	6.06	2.32	4.32
0.0557	1.414	-0.50	14	5.22	2.00	6.32
0.0394	1.000	0.00	18	6.67	2.56	8.88
0.0278	0.707	0.50	25	8.73	3.35	12.23
0.0197	0.500	1.00	35	9.76	3.74	15.97
0.0166	0.420	1.25	40	13.83	5.31	21.28
0.0139	0.354	1.50	45	7.84	3.01	24.29
0.0098	0.250	2.00	60	31.93	12.25	36.54
0.0070	0.177	2.50	80	26.15	10.03	46.57
0.0049	0.125	3.00	120	40.59	15.57	62.14
0.0029	0.074	3.75	200	55.38	21.25	83.39
0.0021	0.053	4.25	270	10.33	3.96	87.35
0.0015	0.037	4.75	400	9.51	3.65	91.00
			PAN	23.47	9.00	100.00
TOTALS				260.67	100.00	100.00

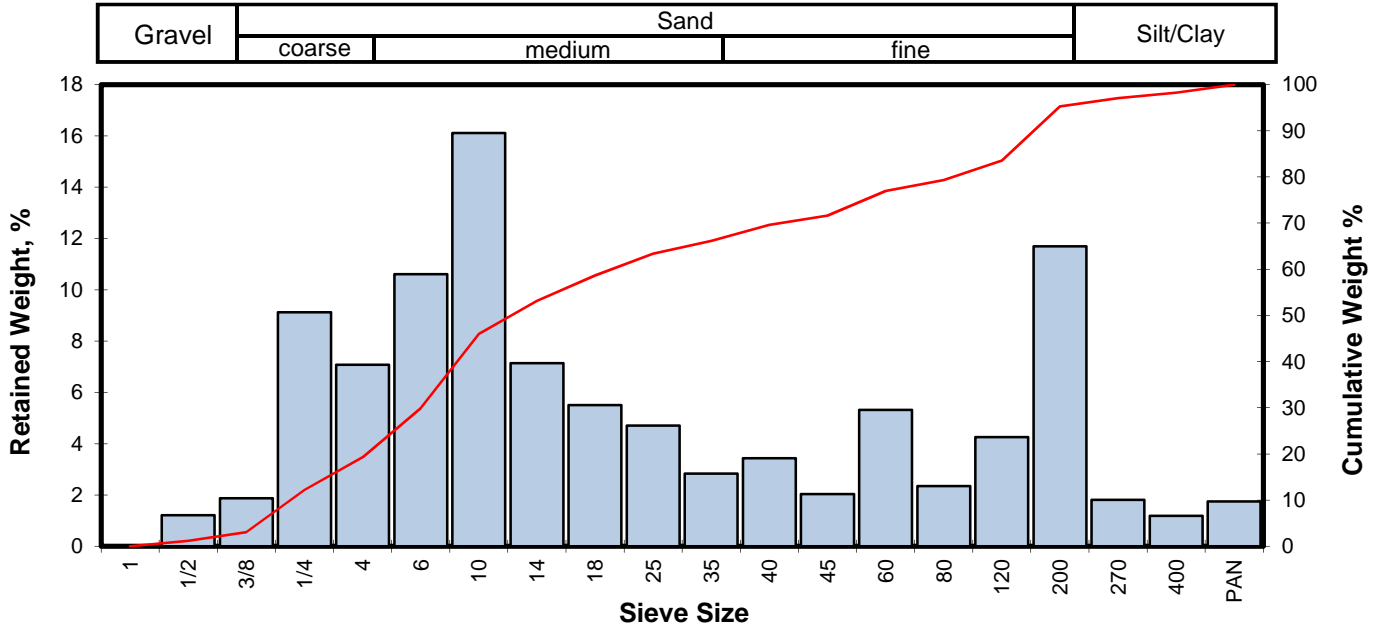
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.83	0.0700	1.778
10	0.17	0.0351	0.891
16	1.00	0.0197	0.500
25	1.53	0.0136	0.346
40	2.17	0.0087	0.222
50	2.61	0.0064	0.164
60	2.93	0.0052	0.131
75	3.45	0.0036	0.091
84	3.83	0.0028	0.070
90	4.61	0.0016	0.041
95	2.64	0.0063	0.161

Measure	Trask	Inman	Folk-Ward
Median, phi	2.61	2.61	2.61
Median, in.	0.0064	0.0064	0.0064
Median, mm	0.164	0.164	0.164
Mean, phi	2.19	2.41	2.48
Mean, in.	0.0086	0.0074	0.0071
Mean, mm	0.219	0.188	0.179
Sorting	1.949	1.413	1.232
Skewness	1.086	-0.139	-0.561
Kurtosis	0.150	0.227	0.738
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.87
Coarse Sand	10	3.45
Medium Sand	40	16.96
Fine Sand	200	62.11
Silt/Clay	<200	16.61
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC164-12.5-13.0
 Depth, ft: 12.5-13.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	3.37	1.21	1.21
0.3740	9.500	-3.25	3/8	5.24	1.87	3.08
0.2500	6.351	-2.67	1/4	25.49	9.12	12.20
0.1873	4.757	-2.25	4	19.79	7.08	19.28
0.1324	3.364	-1.75	6	29.64	10.60	29.88
0.0787	2.000	-1.00	10	45.04	16.11	46.00
0.0557	1.414	-0.50	14	19.96	7.14	53.14
0.0394	1.000	0.00	18	15.38	5.50	58.64
0.0278	0.707	0.50	25	13.14	4.70	63.34
0.0197	0.500	1.00	35	7.92	2.83	66.17
0.0166	0.420	1.25	40	9.59	3.43	69.60
0.0139	0.354	1.50	45	5.70	2.04	71.64
0.0098	0.250	2.00	60	14.86	5.32	76.96
0.0070	0.177	2.50	80	6.56	2.35	79.30
0.0049	0.125	3.00	120	11.91	4.26	83.57
0.0029	0.074	3.75	200	32.69	11.69	95.26
0.0021	0.053	4.25	270	5.05	1.81	97.07
0.0015	0.037	4.75	400	3.32	1.19	98.25
			PAN	4.88	1.75	100.00
TOTALS				279.53	100.00	100.00

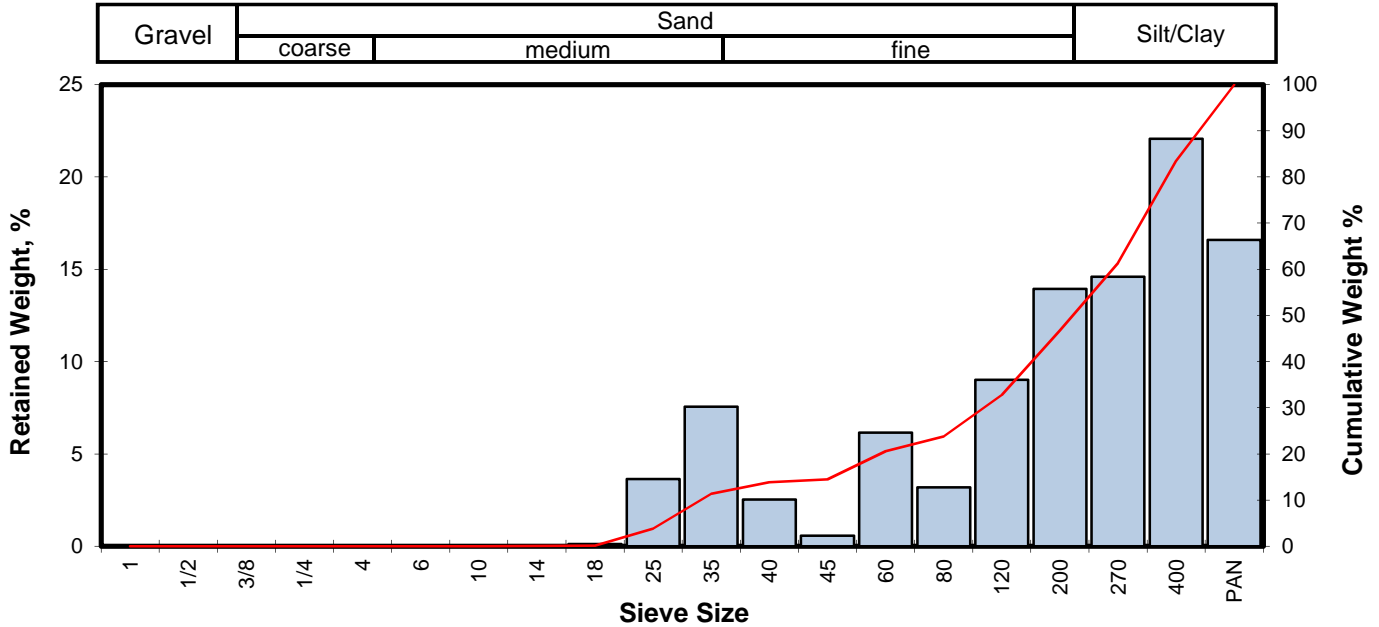
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.13	0.3436	8.728
10	-2.81	0.2755	6.999
16	-2.44	0.2141	5.438
25	-1.98	0.1553	3.946
40	-1.28	0.0955	2.427
50	-0.72	0.0648	1.647
60	0.14	0.0356	0.904
75	1.82	0.0112	0.284
84	3.03	0.0048	0.123
90	3.41	0.0037	0.094
95	3.73	0.0030	0.075

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.72	-0.72	-0.72
Median, in.	0.0648	0.0648	0.0648
Median, mm	1.647	1.647	1.647
Mean, phi	-1.08	0.29	-0.04
Mean, in.	0.0833	0.0321	0.0406
Mean, mm	2.115	0.817	1.032
Sorting	3.727	2.736	2.407
Skewness	0.643	0.370	0.334
Kurtosis	0.265	0.254	0.741
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	19.28
Coarse Sand	10	26.72
Medium Sand	40	23.61
Fine Sand	200	25.66
Silt/Clay	<200	4.74
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC164-32.0-32.5
 Depth, ft: 32.0-32.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.08	0.05	0.05
0.0394	1.000	0.00	18	0.23	0.13	0.17
0.0278	0.707	0.50	25	6.44	3.63	3.81
0.0197	0.500	1.00	35	13.39	7.56	11.36
0.0166	0.420	1.25	40	4.49	2.53	13.90
0.0139	0.354	1.50	45	1.01	0.57	14.47
0.0098	0.250	2.00	60	10.91	6.16	20.62
0.0070	0.177	2.50	80	5.64	3.18	23.81
0.0049	0.125	3.00	120	15.96	9.01	32.81
0.0029	0.074	3.75	200	24.70	13.94	46.75
0.0021	0.053	4.25	270	25.88	14.60	61.35
0.0015	0.037	4.75	400	39.11	22.07	83.42
			PAN	29.39	16.58	100.00
TOTALS				177.23	100.00	100.00

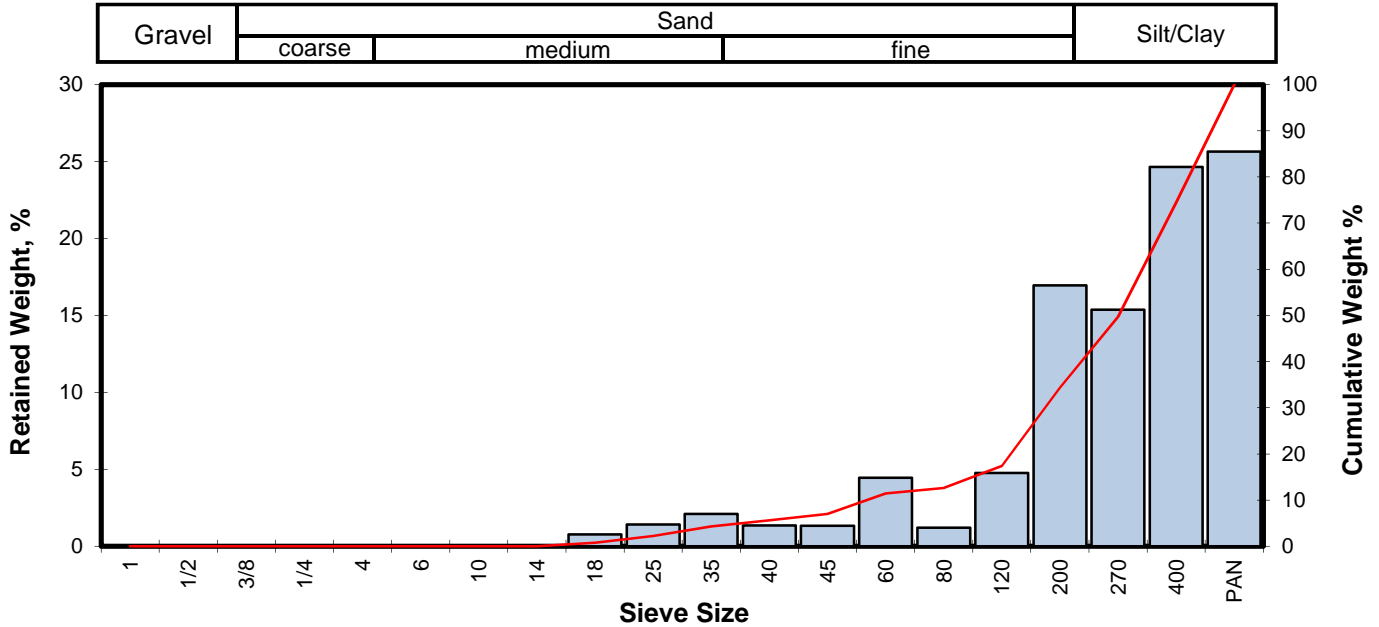
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.58	0.0264	0.669
10	0.91	0.0210	0.532
16	1.62	0.0128	0.324
25	2.57	0.0066	0.169
40	3.39	0.0038	0.096
50	3.86	0.0027	0.069
60	4.20	0.0021	0.054
75	4.56	0.0017	0.042
84	4.58	0.0016	0.042
90	2.86	0.0054	0.137
95	1.43	0.0146	0.371

Measure	Trask	Inman	Folk-Ward
Median, phi	3.86	3.86	3.86
Median, in.	0.0027	0.0027	0.0027
Median, mm	0.069	0.069	0.069
Mean, phi	3.24	3.10	3.36
Mean, in.	0.0042	0.0046	0.0038
Mean, mm	0.106	0.116	0.098
Sorting	1.995	1.479	0.869
Skewness	1.230	-0.512	-3.603
Kurtosis	0.160	-0.712	0.175
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	13.90
Fine Sand	200	32.85
Silt/Clay	<200	53.25
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC164-36.0-36.8
 Depth, ft: 36.0-36.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	1.07	0.77	0.77
0.0278	0.707	0.50	25	1.97	1.42	2.20
0.0197	0.500	1.00	35	2.91	2.10	4.30
0.0166	0.420	1.25	40	1.87	1.35	5.65
0.0139	0.354	1.50	45	1.85	1.34	6.98
0.0098	0.250	2.00	60	6.16	4.45	11.43
0.0070	0.177	2.50	80	1.66	1.20	12.63
0.0049	0.125	3.00	120	6.59	4.76	17.39
0.0029	0.074	3.75	200	23.47	16.95	34.34
0.0021	0.053	4.25	270	21.29	15.37	49.71
0.0015	0.037	4.75	400	34.13	24.65	74.36
			PAN	35.51	25.64	100.00
TOTALS				138.48	100.00	100.00

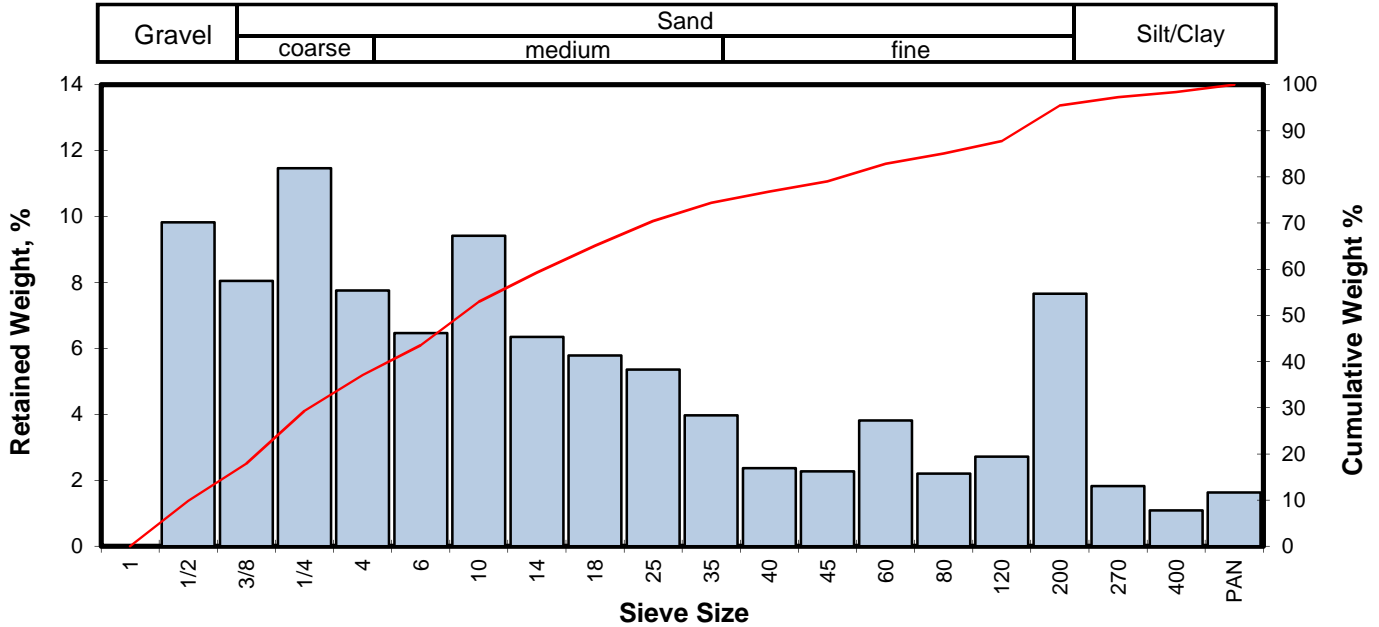
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.13	0.0180	0.457
10	1.84	0.0110	0.279
16	2.85	0.0054	0.138
25	3.34	0.0039	0.099
40	3.93	0.0026	0.065
50	4.26	0.0021	0.052
60	4.46	0.0018	0.045
75	4.63	0.0016	0.040
84	2.96	0.0050	0.128
90	1.85	0.0109	0.277
95	0.93	0.0207	0.526

Measure	Trask	Inman	Folk-Ward
Median, phi	4.26	4.26	4.26
Median, in.	0.0021	0.0021	0.0021
Median, mm	0.052	0.052	0.052
Mean, phi	3.84	2.91	3.36
Mean, in.	0.0027	0.0052	0.0038
Mean, mm	0.070	0.133	0.098
Sorting	1.566	0.055	-0.003
Skewness	1.207	-24.551	3.545
Kurtosis	11.464	-2.859	-0.065
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.65
Fine Sand	200	28.69
Silt/Clay	<200	65.66
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC165-12.0-12.3
 Depth, ft: 12.0-12.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	24.31	9.82	9.82
0.3740	9.500	-3.25	3/8	19.91	8.04	17.86
0.2500	6.351	-2.67	1/4	28.38	11.46	29.33
0.1873	4.757	-2.25	4	19.19	7.75	37.08
0.1324	3.364	-1.75	6	16.00	6.46	43.54
0.0787	2.000	-1.00	10	23.32	9.42	52.96
0.0557	1.414	-0.50	14	15.71	6.35	59.31
0.0394	1.000	0.00	18	14.33	5.79	65.10
0.0278	0.707	0.50	25	13.26	5.36	70.45
0.0197	0.500	1.00	35	9.83	3.97	74.42
0.0166	0.420	1.25	40	5.87	2.37	76.79
0.0139	0.354	1.50	45	5.62	2.27	79.06
0.0098	0.250	2.00	60	9.44	3.81	82.88
0.0070	0.177	2.50	80	5.45	2.20	85.08
0.0049	0.125	3.00	120	6.72	2.71	87.79
0.0029	0.074	3.75	200	18.97	7.66	95.46
0.0021	0.053	4.25	270	4.51	1.82	97.28
0.0015	0.037	4.75	400	2.69	1.09	98.36
			PAN	4.05	1.64	100.00
TOTALS				247.56	100.00	100.00

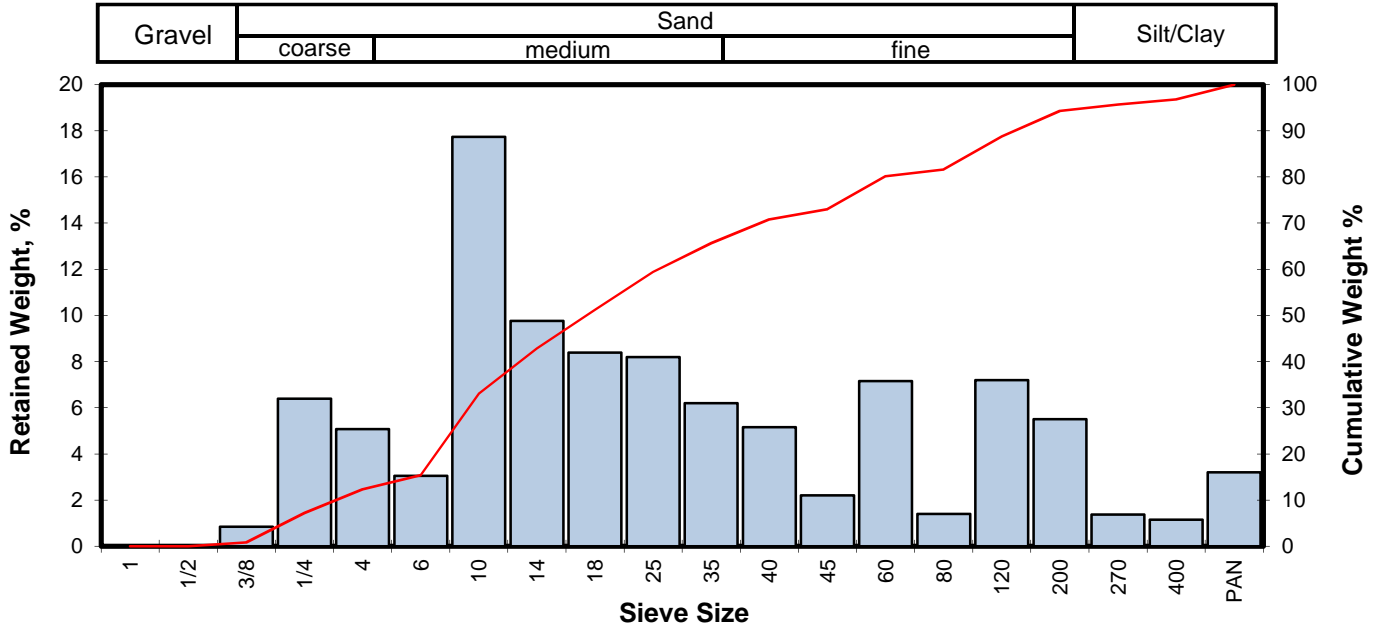
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.13	0.6916	17.567
10	-3.64	0.4892	12.425
16	-3.34	0.3986	10.124
25	-2.89	0.2911	7.393
40	-2.02	0.1601	4.067
50	-1.24	0.0927	2.355
60	-0.44	0.0534	1.357
75	1.06	0.0189	0.479
84	2.26	0.0082	0.209
90	3.22	0.0042	0.108
95	3.71	0.0030	0.077

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.24	-1.24	-1.24
Median, in.	0.0927	0.0927	0.0927
Median, mm	2.355	2.355	2.355
Mean, phi	-1.98	-0.54	-0.77
Mean, in.	0.1550	0.0573	0.0673
Mean, mm	3.936	1.456	1.709
Sorting	3.927	2.797	2.587
Skewness	0.799	0.248	0.254
Kurtosis	0.281	0.401	0.814
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	37.08
Coarse Sand	10	15.88
Medium Sand	40	23.83
Fine Sand	200	18.66
Silt/Clay	<200	4.54
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC165-31.0-31.3
 Depth, ft: 31.0-31.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	2.07	0.85	0.85
0.2500	6.351	-2.67	1/4	15.63	6.39	7.24
0.1873	4.757	-2.25	4	12.42	5.08	12.32
0.1324	3.364	-1.75	6	7.45	3.05	15.36
0.0787	2.000	-1.00	10	43.35	17.73	33.09
0.0557	1.414	-0.50	14	23.86	9.76	42.85
0.0394	1.000	0.00	18	20.51	8.39	51.24
0.0278	0.707	0.50	25	20.03	8.19	59.43
0.0197	0.500	1.00	35	15.16	6.20	65.63
0.0166	0.420	1.25	40	12.63	5.17	70.80
0.0139	0.354	1.50	45	5.39	2.20	73.00
0.0098	0.250	2.00	60	17.51	7.16	80.16
0.0070	0.177	2.50	80	3.44	1.41	81.57
0.0049	0.125	3.00	120	17.60	7.20	88.77
0.0029	0.074	3.75	200	13.47	5.51	94.27
0.0021	0.053	4.25	270	3.36	1.37	95.65
0.0015	0.037	4.75	400	2.80	1.15	96.79
			PAN	7.84	3.21	100.00
TOTALS				244.52	100.00	100.00

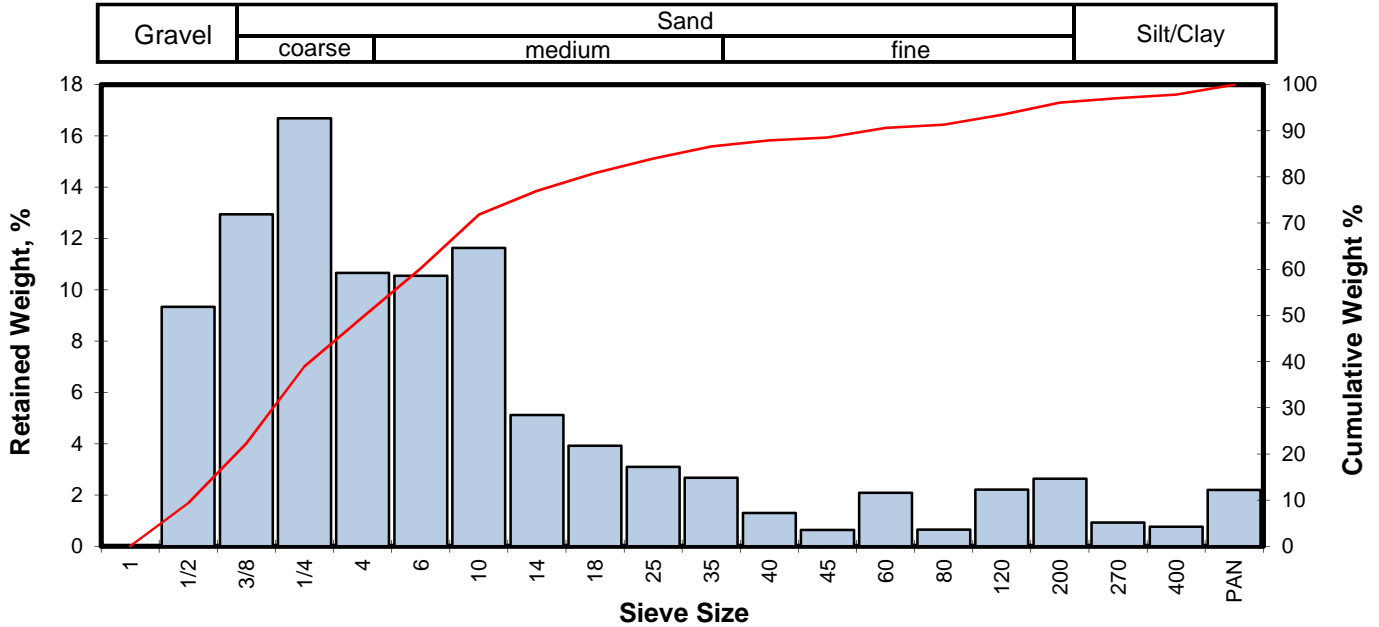
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.87	0.2879	7.313
10	-2.44	0.2137	5.428
16	-1.72	0.1300	3.302
25	-1.34	0.0998	2.536
40	-0.65	0.0616	1.565
50	-0.07	0.0414	1.053
60	0.55	0.0270	0.685
75	1.64	0.0126	0.321
84	2.67	0.0062	0.157
90	3.17	0.0044	0.111
95	4.01	0.0024	0.062

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.07	-0.07	-0.07
Median, in.	0.0414	0.0414	0.0414
Median, mm	1.053	1.053	1.053
Mean, phi	-0.51	0.47	0.29
Mean, in.	0.0562	0.0284	0.0322
Mean, mm	1.428	0.721	0.818
Sorting	2.811	2.196	2.141
Skewness	0.857	0.249	0.218
Kurtosis	0.208	0.567	0.946
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	12.32
Coarse Sand	10	20.78
Medium Sand	40	37.70
Fine Sand	200	23.48
Silt/Clay	<200	5.73
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC165-36.7-37.0
 Depth, ft: 36.7-37.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	29.94	9.33	9.33
0.3740	9.500	-3.25	3/8	41.52	12.95	22.28
0.2500	6.351	-2.67	1/4	53.52	16.69	38.97
0.1873	4.757	-2.25	4	34.19	10.66	49.63
0.1324	3.364	-1.75	6	33.84	10.55	60.18
0.0787	2.000	-1.00	10	37.29	11.63	71.80
0.0557	1.414	-0.50	14	16.43	5.12	76.93
0.0394	1.000	0.00	18	12.57	3.92	80.84
0.0278	0.707	0.50	25	9.94	3.10	83.94
0.0197	0.500	1.00	35	8.57	2.67	86.62
0.0166	0.420	1.25	40	4.15	1.29	87.91
0.0139	0.354	1.50	45	2.03	0.63	88.54
0.0098	0.250	2.00	60	6.67	2.08	90.62
0.0070	0.177	2.50	80	2.10	0.65	91.28
0.0049	0.125	3.00	120	7.10	2.21	93.49
0.0029	0.074	3.75	200	8.44	2.63	96.12
0.0021	0.053	4.25	270	2.95	0.92	97.04
0.0015	0.037	4.75	400	2.45	0.76	97.81
			PAN	7.04	2.19	100.00
TOTALS				320.74	100.00	100.00

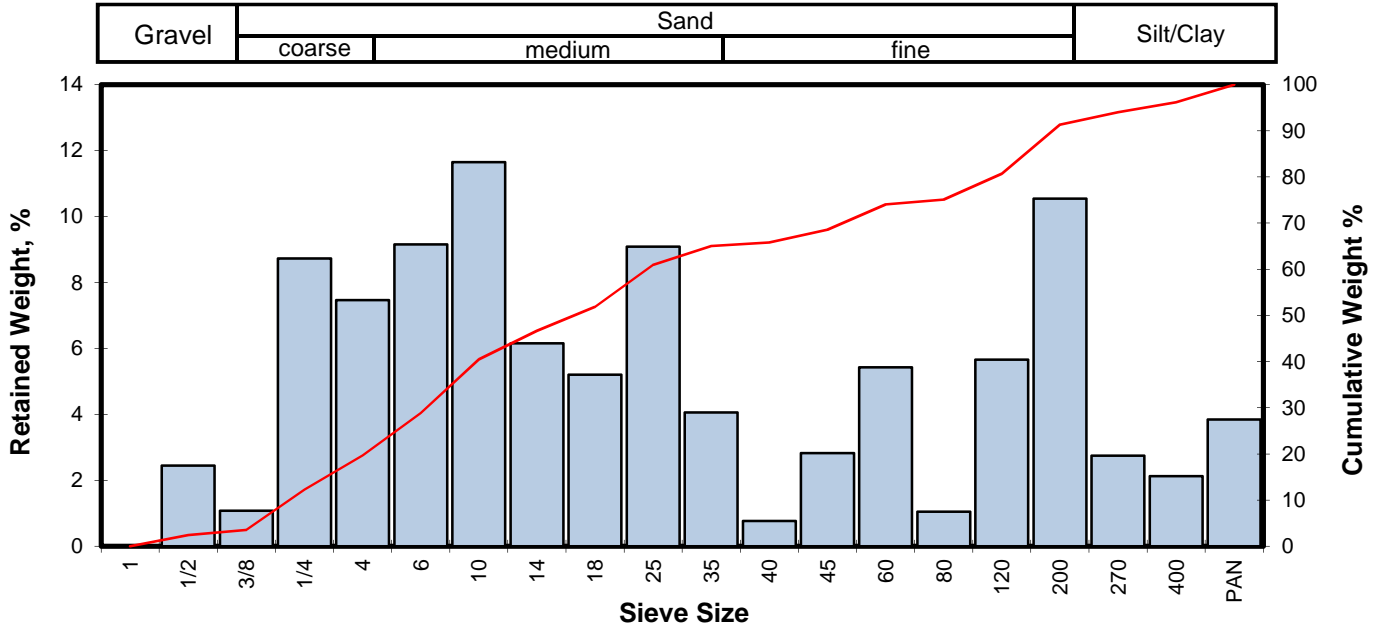
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-4.11	0.6791	17.248
10	-3.62	0.4853	12.326
16	-3.44	0.4273	10.854
25	-3.15	0.3503	8.897
40	-2.63	0.2431	6.176
50	-2.23	0.1850	4.699
60	-1.76	0.1332	3.383
75	-0.69	0.0634	1.611
84	0.51	0.0276	0.702
90	1.85	0.0109	0.277
95	3.43	0.0037	0.093

Measure	Trask	Inman	Folk-Ward
Median, phi	-2.23	-2.23	-2.23
Median, in.	0.1850	0.1850	0.1850
Median, mm	4.699	4.699	4.699
Mean, phi	-2.39	-1.46	-1.72
Mean, in.	0.2068	0.1087	0.1298
Mean, mm	5.254	2.760	3.296
Sorting	2.350	1.975	2.130
Skewness	0.806	0.389	0.445
Kurtosis	0.302	0.908	1.253
Grain Size Description (ASTM-USCS Scale)	Gravel (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	49.63
Coarse Sand	10	22.18
Medium Sand	40	16.11
Fine Sand	200	8.21
Silt/Clay	<200	3.88
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC166-11.5-11.8
 Depth, ft: 11.5-11.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	5.84	2.44	2.44
0.3740	9.500	-3.25	3/8	2.58	1.08	3.52
0.2500	6.351	-2.67	1/4	20.87	8.73	12.25
0.1873	4.757	-2.25	4	17.84	7.46	19.71
0.1324	3.364	-1.75	6	21.90	9.16	28.86
0.0787	2.000	-1.00	10	27.86	11.65	40.51
0.0557	1.414	-0.50	14	14.71	6.15	46.67
0.0394	1.000	0.00	18	12.44	5.20	51.87
0.0278	0.707	0.50	25	21.73	9.09	60.95
0.0197	0.500	1.00	35	9.70	4.06	65.01
0.0166	0.420	1.25	40	1.84	0.77	65.78
0.0139	0.354	1.50	45	6.75	2.82	68.60
0.0098	0.250	2.00	60	12.98	5.43	74.03
0.0070	0.177	2.50	80	2.50	1.05	75.07
0.0049	0.125	3.00	120	13.53	5.66	80.73
0.0029	0.074	3.75	200	25.22	10.55	91.28
0.0021	0.053	4.25	270	6.58	2.75	94.03
0.0015	0.037	4.75	400	5.09	2.13	96.16
			PAN	9.19	3.84	100.00
TOTALS				239.15	100.00	100.00

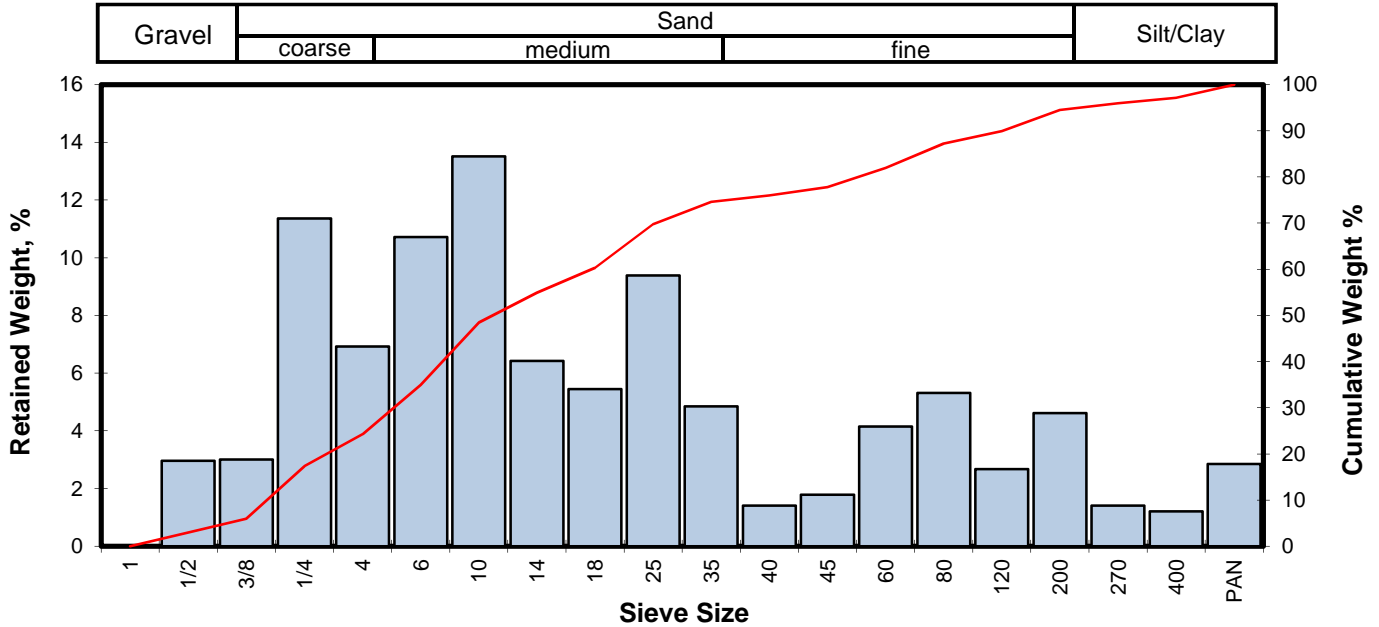
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.15	0.3494	8.874
10	-2.82	0.2774	7.045
16	-2.46	0.2162	5.492
25	-1.96	0.1533	3.893
40	-1.03	0.0806	2.046
50	-0.18	0.0446	1.132
60	0.45	0.0289	0.733
75	2.46	0.0071	0.181
84	3.23	0.0042	0.106
90	3.66	0.0031	0.079
95	4.48	0.0018	0.045

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.18	-0.18	-0.18
Median, in.	0.0446	0.0446	0.0446
Median, mm	1.132	1.132	1.132
Mean, phi	-1.03	0.39	0.20
Mean, in.	0.0802	0.0301	0.0343
Mean, mm	2.037	0.764	0.871
Sorting	4.636	2.845	2.578
Skewness	0.742	0.199	0.210
Kurtosis	0.266	0.341	0.706
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	19.71
Coarse Sand	10	20.81
Medium Sand	40	25.26
Fine Sand	200	25.50
Silt/Clay	<200	8.72
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC166-22.0-22.3
 Depth, ft: 22.0-22.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	7.05	2.96	2.96
0.3740	9.500	-3.25	3/8	7.17	3.01	5.97
0.2500	6.351	-2.67	1/4	27.05	11.36	17.33
0.1873	4.757	-2.25	4	16.48	6.92	24.25
0.1324	3.364	-1.75	6	25.52	10.71	34.96
0.0787	2.000	-1.00	10	32.18	13.51	48.47
0.0557	1.414	-0.50	14	15.31	6.43	54.90
0.0394	1.000	0.00	18	12.97	5.45	60.35
0.0278	0.707	0.50	25	22.36	9.39	69.73
0.0197	0.500	1.00	35	11.55	4.85	74.58
0.0166	0.420	1.25	40	3.36	1.41	75.99
0.0139	0.354	1.50	45	4.25	1.78	77.78
0.0098	0.250	2.00	60	9.88	4.15	81.93
0.0070	0.177	2.50	80	12.65	5.31	87.24
0.0049	0.125	3.00	120	6.36	2.67	89.91
0.0029	0.074	3.75	200	11.00	4.62	94.53
0.0021	0.053	4.25	270	3.36	1.41	95.94
0.0015	0.037	4.75	400	2.88	1.21	97.15
			PAN	6.80	2.85	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.38	0.4086	10.379
10	-3.04	0.3242	8.235
16	-2.73	0.2621	6.657
25	-2.21	0.1828	4.642
40	-1.47	0.1091	2.771
50	-0.88	0.0725	1.842
60	-0.03	0.0402	1.022
75	1.07	0.0187	0.475
84	2.20	0.0086	0.218
90	3.02	0.0049	0.124
95	3.92	0.0026	0.066

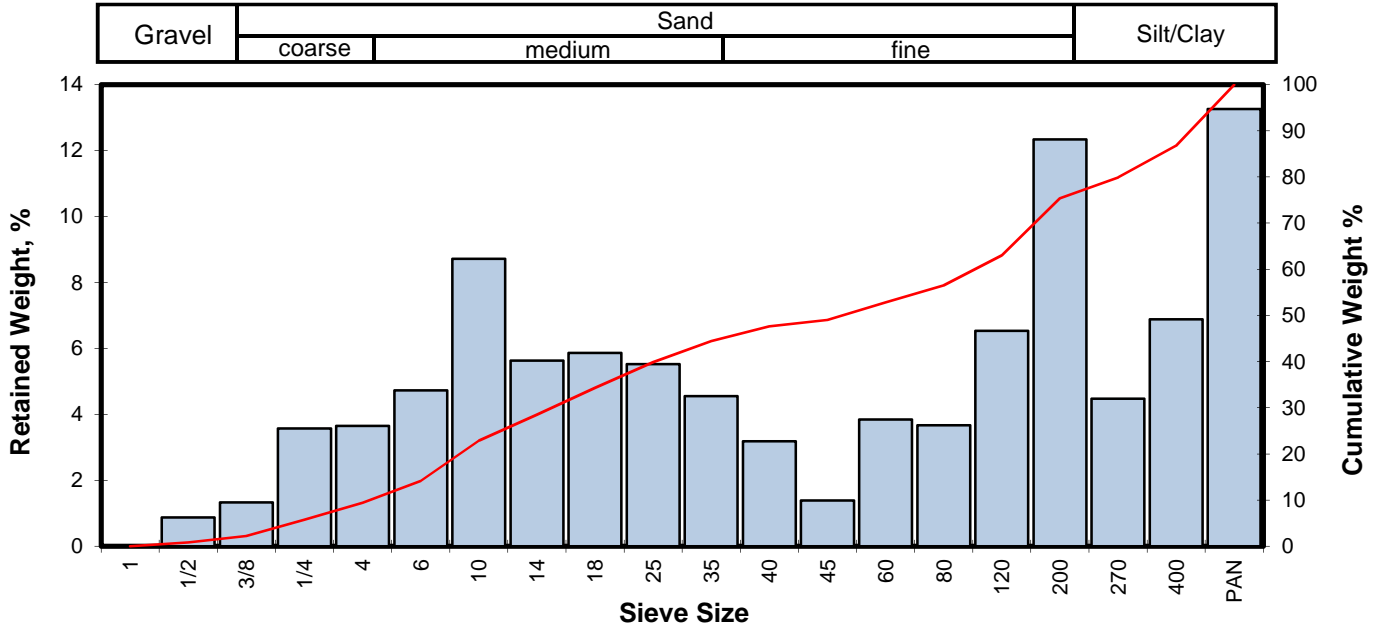
Measure	Trask	Inman	Folk-Ward
Median, phi	-0.88	-0.88	-0.88
Median, in.	0.0725	0.0725	0.0725
Median, mm	1.842	1.842	1.842
Mean, phi	-1.36	-0.27	-0.47
Mean, in.	0.1007	0.0475	0.0547
Mean, mm	2.559	1.206	1.389
Sorting	3.126	2.465	2.338
Skewness	0.806	0.248	0.282
Kurtosis	0.257	0.479	0.909
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	24.25
Coarse Sand	10	24.23
Medium Sand	40	27.52
Fine Sand	200	18.53
Silt/Clay	<200	5.47
TOTAL		100

TOTALS	238.18	100.00	100.00
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Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC166-33.7-34.2
 Depth, ft: 33.7-34.2



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	2.55	0.87	0.87
0.3740	9.500	-3.25	3/8	3.90	1.33	2.20
0.2500	6.351	-2.67	1/4	10.47	3.57	5.77
0.1873	4.757	-2.25	4	10.69	3.65	9.42
0.1324	3.364	-1.75	6	13.87	4.73	14.15
0.0787	2.000	-1.00	10	25.56	8.72	22.86
0.0557	1.414	-0.50	14	16.50	5.63	28.49
0.0394	1.000	0.00	18	17.18	5.86	34.35
0.0278	0.707	0.50	25	16.19	5.52	39.87
0.0197	0.500	1.00	35	13.36	4.56	44.43
0.0166	0.420	1.25	40	9.34	3.19	47.62
0.0139	0.354	1.50	45	4.06	1.38	49.00
0.0098	0.250	2.00	60	11.26	3.84	52.84
0.0070	0.177	2.50	80	10.76	3.67	56.51
0.0049	0.125	3.00	120	19.15	6.53	63.04
0.0029	0.074	3.75	200	36.18	12.34	75.38
0.0021	0.053	4.25	270	13.11	4.47	79.85
0.0015	0.037	4.75	400	20.19	6.89	86.74
			PAN	38.88	13.26	100.00
TOTALS				293.20	100.00	100.00

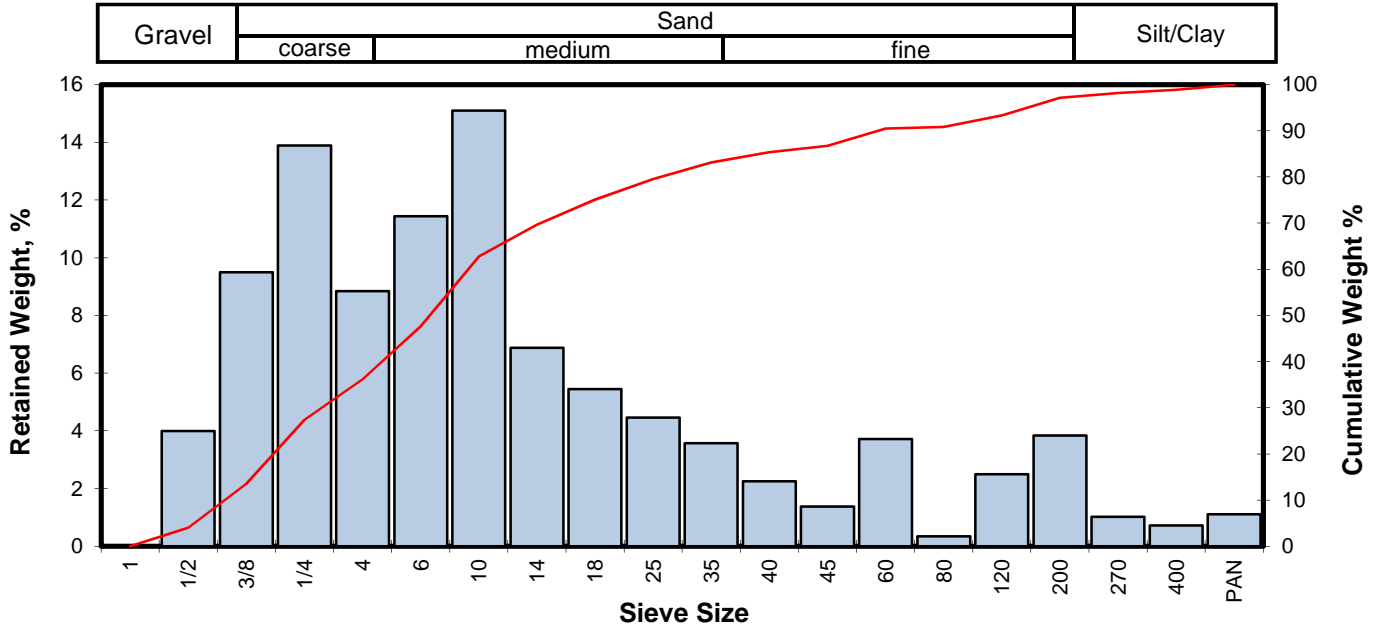
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.79	0.2728	6.928
10	-2.19	0.1794	4.558
16	-1.59	0.1186	3.012
25	-0.81	0.0690	1.754
40	0.51	0.0276	0.700
50	1.63	0.0127	0.323
60	2.77	0.0058	0.147
75	3.73	0.0030	0.076
84	4.55	0.0017	0.043
90	3.58	0.0033	0.084
95	1.79	0.0114	0.289

Measure	Trask	Inman	Folk-Ward
Median, phi	1.63	1.63	1.63
Median, in.	0.0127	0.0127	0.0127
Median, mm	0.323	0.323	0.323
Mean, phi	0.13	1.48	1.53
Mean, in.	0.0360	0.0141	0.0136
Mean, mm	0.915	0.358	0.346
Sorting	4.818	3.071	2.230
Skewness	1.127	-0.049	-0.489
Kurtosis	0.188	-0.254	0.414
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	9.42
Coarse Sand	10	13.45
Medium Sand	40	24.75
Fine Sand	200	27.77
Silt/Clay	<200	24.62
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC172-13.5-14.0
 Depth, ft: 13.5-14.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	12.10	3.99	3.99
0.3740	9.500	-3.25	3/8	28.78	9.50	13.49
0.2500	6.351	-2.67	1/4	42.07	13.89	27.38
0.1873	4.757	-2.25	4	26.79	8.84	36.22
0.1324	3.364	-1.75	6	34.66	11.44	47.67
0.0787	2.000	-1.00	10	45.73	15.10	62.76
0.0557	1.414	-0.50	14	20.83	6.88	69.64
0.0394	1.000	0.00	18	16.50	5.45	75.08
0.0278	0.707	0.50	25	13.50	4.46	79.54
0.0197	0.500	1.00	35	10.82	3.57	83.11
0.0166	0.420	1.25	40	6.81	2.25	85.36
0.0139	0.354	1.50	45	4.18	1.38	86.74
0.0098	0.250	2.00	60	11.27	3.72	90.46
0.0070	0.177	2.50	80	1.06	0.35	90.81
0.0049	0.125	3.00	120	7.57	2.50	93.31
0.0029	0.074	3.75	200	11.64	3.84	97.15
0.0021	0.053	4.25	270	3.09	1.02	98.17
0.0015	0.037	4.75	400	2.18	0.72	98.89
			PAN	3.36	1.11	100.00
TOTALS				302.94	100.00	100.00

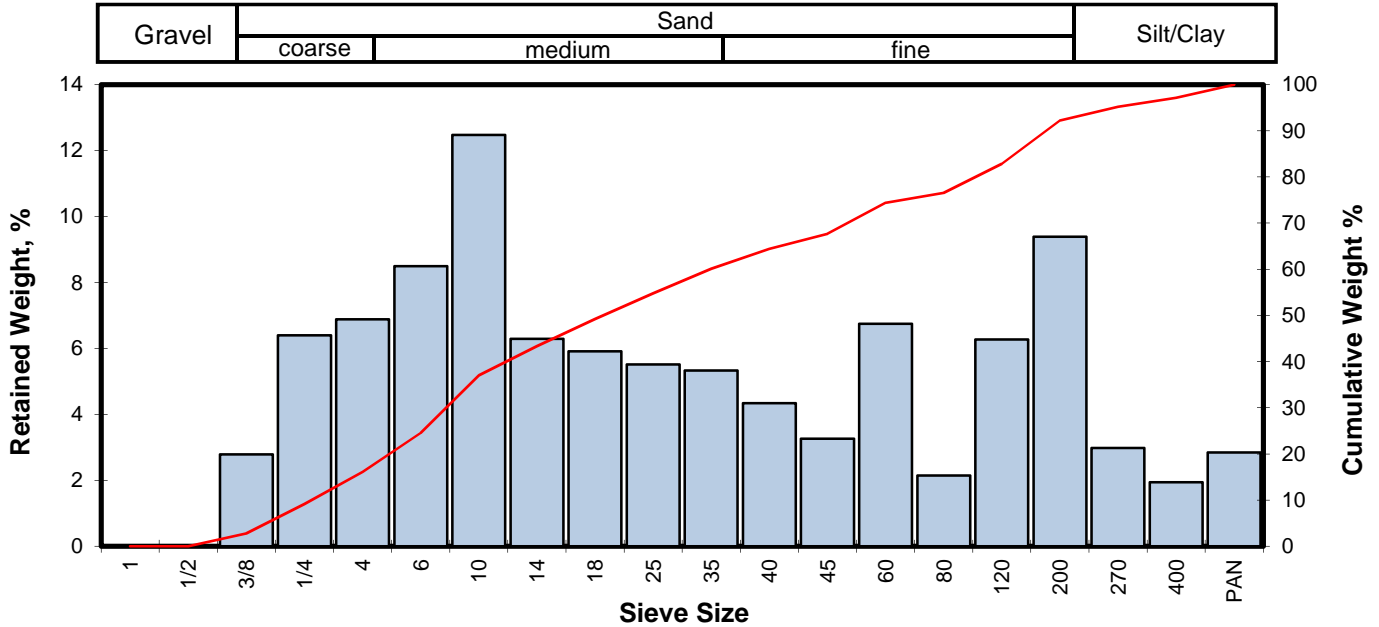
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.60	0.4781	12.143
10	-3.39	0.4138	10.510
16	-3.14	0.3478	8.835
25	-2.77	0.2679	6.805
40	-2.09	0.1670	4.243
50	-1.63	0.1222	3.104
60	-1.14	0.0866	2.200
75	-0.01	0.0396	1.005
84	1.10	0.0184	0.467
90	1.94	0.0103	0.261
95	3.33	0.0039	0.099

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.63	-1.63	-1.63
Median, in.	0.1222	0.1222	0.1222
Median, mm	3.104	3.104	3.104
Mean, phi	-1.97	-1.02	-1.23
Mean, in.	0.1538	0.0800	0.0921
Mean, mm	3.905	2.031	2.339
Sorting	2.602	2.121	2.111
Skewness	0.843	0.288	0.360
Kurtosis	0.283	0.634	1.030
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	36.22
Coarse Sand	10	26.54
Medium Sand	40	22.60
Fine Sand	200	11.79
Silt/Clay	<200	2.85
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC172-18.5-19.0
 Depth, ft: 18.5-19.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	7.43	2.78	2.78
0.2500	6.351	-2.67	1/4	17.08	6.40	9.19
0.1873	4.757	-2.25	4	18.37	6.88	16.07
0.1324	3.364	-1.75	6	22.67	8.50	24.57
0.0787	2.000	-1.00	10	33.27	12.47	37.03
0.0557	1.414	-0.50	14	16.78	6.29	43.32
0.0394	1.000	0.00	18	15.77	5.91	49.23
0.0278	0.707	0.50	25	14.71	5.51	54.75
0.0197	0.500	1.00	35	14.22	5.33	60.08
0.0166	0.420	1.25	40	11.59	4.34	64.42
0.0139	0.354	1.50	45	8.71	3.26	67.68
0.0098	0.250	2.00	60	17.99	6.74	74.43
0.0070	0.177	2.50	80	5.73	2.15	76.57
0.0049	0.125	3.00	120	16.73	6.27	82.84
0.0029	0.074	3.75	200	25.05	9.39	92.23
0.0021	0.053	4.25	270	7.94	2.98	95.21
0.0015	0.037	4.75	400	5.19	1.95	97.15
			PAN	7.60	2.85	100.00
TOTALS				266.83	100.00	100.00

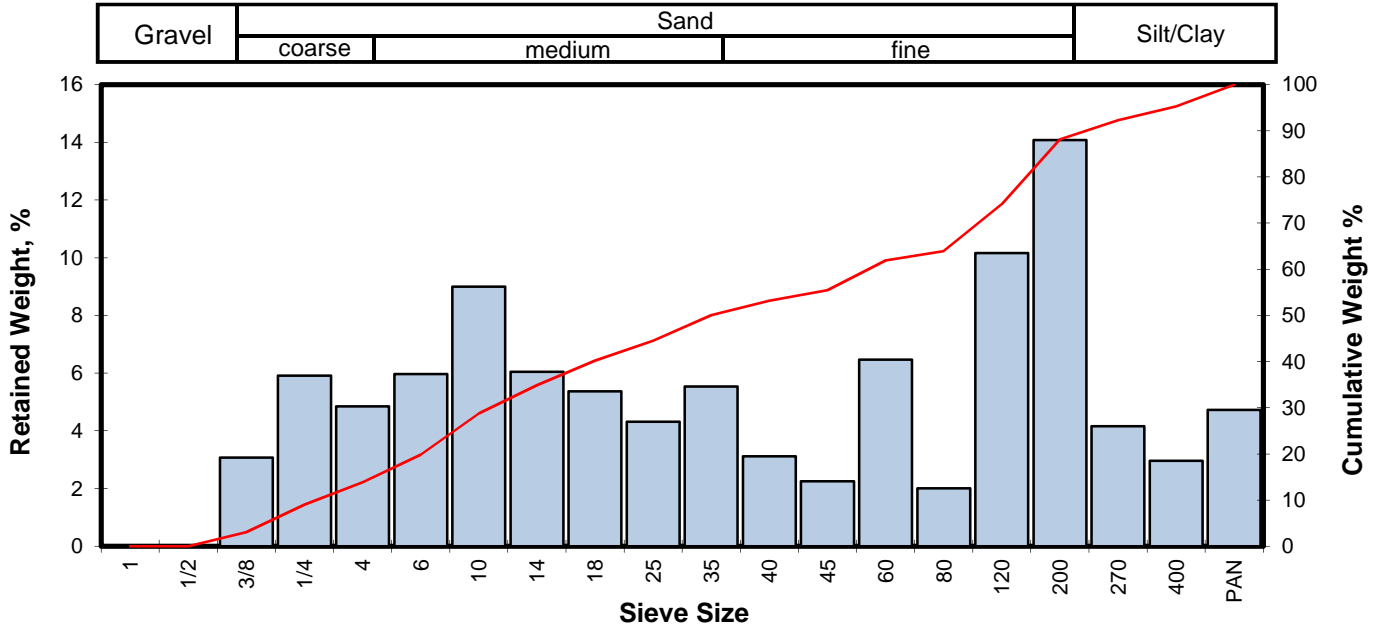
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.05	0.3254	8.264
10	-2.62	0.2416	6.138
16	-2.25	0.1878	4.771
25	-1.72	0.1301	3.303
40	-0.76	0.0669	1.698
50	0.07	0.0375	0.953
60	0.99	0.0198	0.502
75	2.13	0.0090	0.228
84	3.09	0.0046	0.117
90	3.57	0.0033	0.084
95	4.22	0.0021	0.054

Measure	Trask	Inman	Folk-Ward
Median, phi	0.07	0.07	0.07
Median, in.	0.0375	0.0375	0.0375
Median, mm	0.953	0.953	0.953
Mean, phi	-0.82	0.42	0.30
Mean, in.	0.0695	0.0294	0.0319
Mean, mm	1.766	0.748	0.811
Sorting	3.807	2.673	2.437
Skewness	0.910	0.131	0.136
Kurtosis	0.254	0.358	0.772
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	16.07
Coarse Sand	10	20.96
Medium Sand	40	27.38
Fine Sand	200	27.81
Silt/Clay	<200	7.77
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC172-23.5-24.0
 Depth, ft: 23.5-24.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	5.00	3.08	3.08
0.2500	6.351	-2.67	1/4	9.61	5.92	8.99
0.1873	4.757	-2.25	4	7.87	4.84	13.84
0.1324	3.364	-1.75	6	9.70	5.97	19.81
0.0787	2.000	-1.00	10	14.61	8.99	28.80
0.0557	1.414	-0.50	14	9.82	6.04	34.85
0.0394	1.000	0.00	18	8.72	5.37	40.21
0.0278	0.707	0.50	25	7.02	4.32	44.53
0.0197	0.500	1.00	35	9.00	5.54	50.07
0.0166	0.420	1.25	40	5.06	3.11	53.19
0.0139	0.354	1.50	45	3.66	2.25	55.44
0.0098	0.250	2.00	60	10.50	6.46	61.90
0.0070	0.177	2.50	80	3.27	2.01	63.92
0.0049	0.125	3.00	120	16.51	10.16	74.08
0.0029	0.074	3.75	200	22.86	14.07	88.15
0.0021	0.053	4.25	270	6.75	4.15	92.31
0.0015	0.037	4.75	400	4.82	2.97	95.27
			PAN	7.68	4.73	100.00
TOTALS				162.46	100.00	100.00

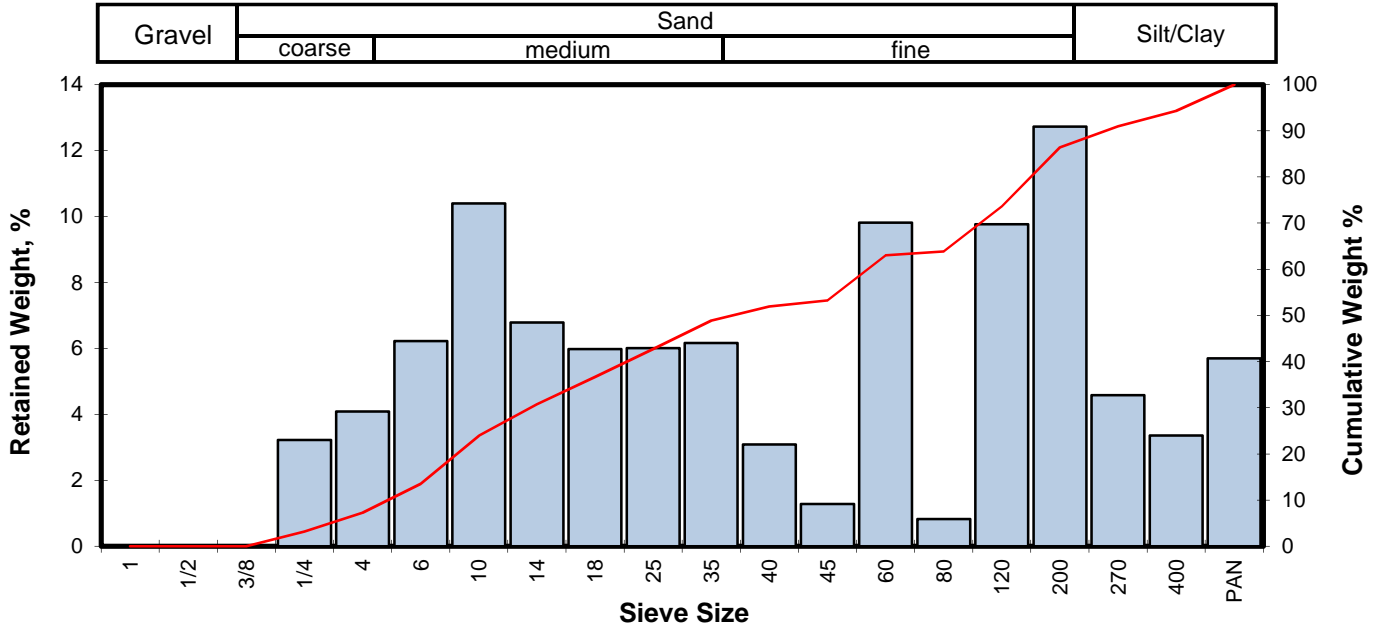
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.06	0.3282	8.335
10	-2.58	0.2355	5.981
16	-2.07	0.1652	4.196
25	-1.32	0.0981	2.491
40	-0.02	0.0399	1.014
50	0.99	0.0198	0.502
60	1.85	0.0109	0.277
75	3.05	0.0048	0.121
84	3.53	0.0034	0.087
90	3.97	0.0025	0.064
95	4.70	0.0015	0.038

Measure	Trask	Inman	Folk-Ward
Median, phi	0.99	0.99	0.99
Median, in.	0.0198	0.0198	0.0198
Median, mm	0.502	0.502	0.502
Mean, phi	-0.39	0.73	0.82
Mean, in.	0.0514	0.0237	0.0223
Mean, mm	1.306	0.603	0.567
Sorting	4.541	2.799	2.576
Skewness	1.092	-0.094	-0.069
Kurtosis	0.200	0.387	0.729
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	13.84
Coarse Sand	10	14.96
Medium Sand	40	24.39
Fine Sand	200	34.96
Silt/Clay	<200	11.85
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC175-12.7-13.0
 Depth, ft: 12.7-13.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	6.99	3.22	3.22
0.1873	4.757	-2.25	4	8.86	4.09	7.31
0.1324	3.364	-1.75	6	13.49	6.22	13.53
0.0787	2.000	-1.00	10	22.53	10.39	23.93
0.0557	1.414	-0.50	14	14.70	6.78	30.71
0.0394	1.000	0.00	18	12.97	5.98	36.69
0.0278	0.707	0.50	25	13.03	6.01	42.70
0.0197	0.500	1.00	35	13.36	6.16	48.87
0.0166	0.420	1.25	40	6.69	3.09	51.95
0.0139	0.354	1.50	45	2.77	1.28	53.23
0.0098	0.250	2.00	60	21.28	9.82	63.05
0.0070	0.177	2.50	80	1.79	0.83	63.87
0.0049	0.125	3.00	120	21.17	9.77	73.64
0.0029	0.074	3.75	200	27.59	12.73	86.36
0.0021	0.053	4.25	270	9.93	4.58	90.94
0.0015	0.037	4.75	400	7.28	3.36	94.30
			PAN	12.35	5.70	100.00
TOTALS				216.78	100.00	100.00

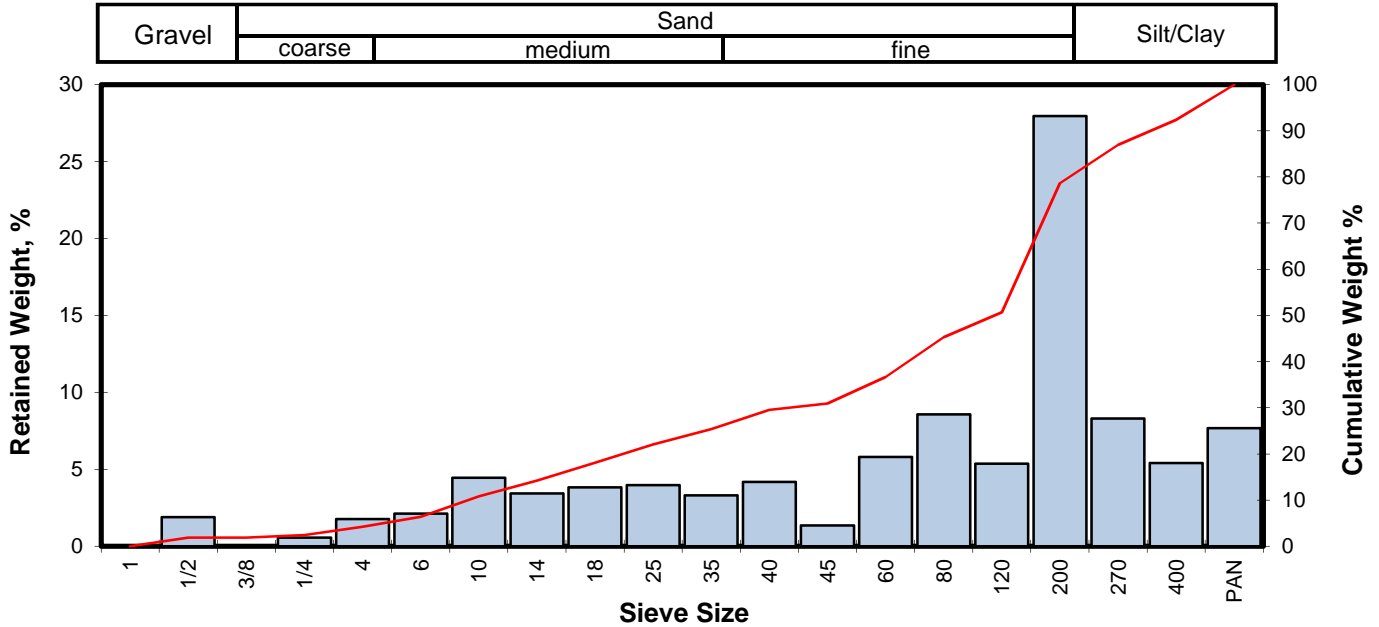
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.49	0.2205	5.602
10	-2.03	0.1612	4.095
16	-1.57	0.1171	2.973
25	-0.92	0.0745	1.893
40	0.28	0.0325	0.826
50	1.09	0.0185	0.469
60	1.84	0.0110	0.278
75	3.08	0.0047	0.118
84	3.61	0.0032	0.082
90	4.15	0.0022	0.056
95	4.17	0.0022	0.056

Measure	Trask	Inman	Folk-Ward
Median, phi	1.09	1.09	1.09
Median, in.	0.0185	0.0185	0.0185
Median, mm	0.469	0.469	0.469
Mean, phi	-0.01	1.02	1.04
Mean, in.	0.0396	0.0194	0.0191
Mean, mm	1.006	0.493	0.485
Sorting	4.002	2.591	2.304
Skewness	1.009	-0.028	-0.052
Kurtosis	0.220	0.284	0.682
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	7.31
Coarse Sand	10	16.62
Medium Sand	40	28.02
Fine Sand	200	34.41
Silt/Clay	<200	13.64
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC175-23.0-23.3
 Depth, ft: 23.0-23.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	3.65	1.90	1.90
0.3740	9.500	-3.25	3/8	0.00	0.00	1.90
0.2500	6.351	-2.67	1/4	1.09	0.57	2.46
0.1873	4.757	-2.25	4	3.42	1.78	4.24
0.1324	3.364	-1.75	6	4.09	2.12	6.36
0.0787	2.000	-1.00	10	8.56	4.45	10.81
0.0557	1.414	-0.50	14	6.62	3.44	14.25
0.0394	1.000	0.00	18	7.37	3.83	18.08
0.0278	0.707	0.50	25	7.64	3.97	22.05
0.0197	0.500	1.00	35	6.37	3.31	25.36
0.0166	0.420	1.25	40	8.04	4.18	29.53
0.0139	0.354	1.50	45	2.62	1.36	30.89
0.0098	0.250	2.00	60	11.19	5.81	36.71
0.0070	0.177	2.50	80	16.50	8.57	45.28
0.0049	0.125	3.00	120	10.34	5.37	50.65
0.0029	0.074	3.75	200	53.83	27.96	78.61
0.0021	0.053	4.25	270	15.98	8.30	86.91
0.0015	0.037	4.75	400	10.40	5.40	92.32
			PAN	14.79	7.68	100.00
TOTALS				192.50	100.00	100.00

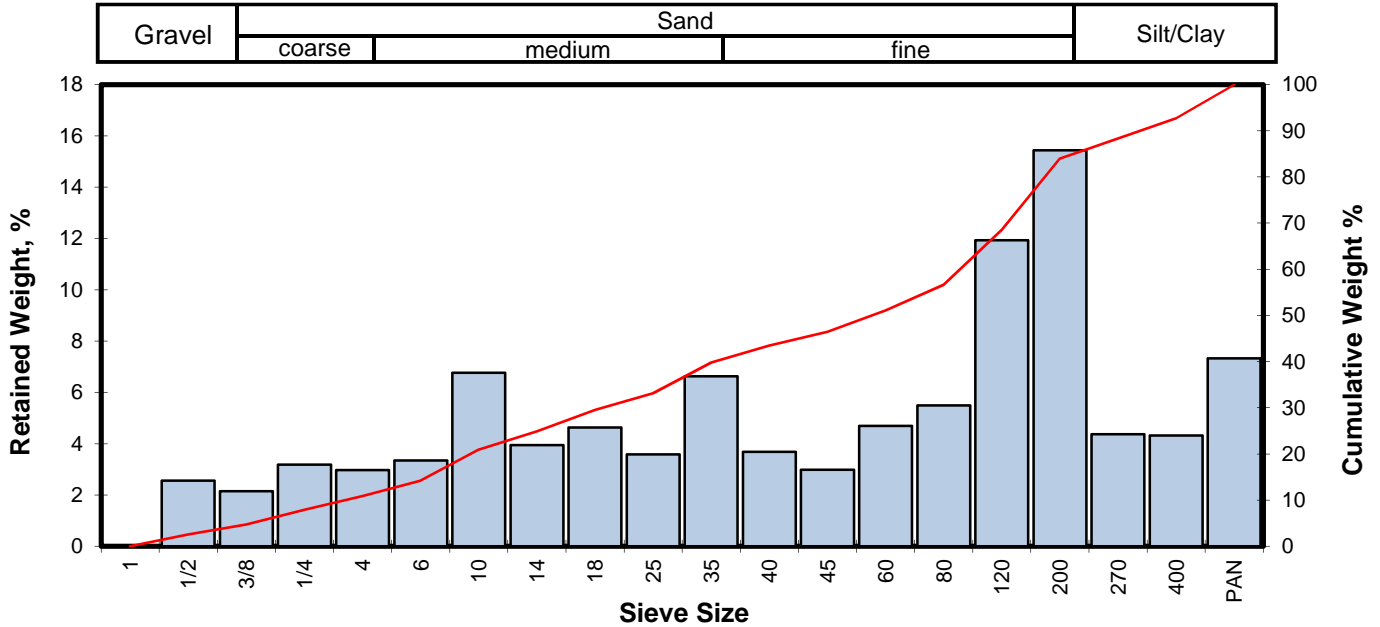
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.07	0.1654	4.202
10	-1.14	0.0866	2.199
16	-0.27	0.0475	1.207
25	0.95	0.0204	0.519
40	2.19	0.0086	0.219
50	2.94	0.0051	0.130
60	3.25	0.0041	0.105
75	3.65	0.0031	0.079
84	4.07	0.0023	0.059
90	4.54	0.0017	0.043
95	3.09	0.0046	0.117

Measure	Trask	Inman	Folk-Ward
Median, phi	2.94	2.94	2.94
Median, in.	0.0051	0.0051	0.0051
Median, mm	0.130	0.130	0.130
Mean, phi	1.74	1.90	2.25
Mean, in.	0.0118	0.0105	0.0083
Mean, mm	0.299	0.268	0.211
Sorting	2.555	2.173	1.869
Skewness	1.558	-0.478	-0.709
Kurtosis	0.102	0.188	0.782
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	4.24
Coarse Sand	10	6.57
Medium Sand	40	18.72
Fine Sand	200	49.08
Silt/Clay	<200	21.39
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC175-32.7-33.0
 Depth, ft: 32.7-33.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	7.28	2.56	2.56
0.3740	9.500	-3.25	3/8	6.10	2.15	4.71
0.2500	6.351	-2.67	1/4	9.04	3.18	7.90
0.1873	4.757	-2.25	4	8.44	2.97	10.87
0.1324	3.364	-1.75	6	9.49	3.34	14.21
0.0787	2.000	-1.00	10	19.20	6.76	20.97
0.0557	1.414	-0.50	14	11.21	3.95	24.92
0.0394	1.000	0.00	18	13.15	4.63	29.55
0.0278	0.707	0.50	25	10.18	3.59	33.13
0.0197	0.500	1.00	35	18.83	6.63	39.77
0.0166	0.420	1.25	40	10.46	3.68	43.45
0.0139	0.354	1.50	45	8.46	2.98	46.43
0.0098	0.250	2.00	60	13.34	4.70	51.13
0.0070	0.177	2.50	80	15.60	5.49	56.62
0.0049	0.125	3.00	120	33.86	11.92	68.54
0.0029	0.074	3.75	200	43.85	15.44	83.99
0.0021	0.053	4.25	270	12.40	4.37	88.35
0.0015	0.037	4.75	400	12.25	4.31	92.67
			PAN	20.82	7.33	100.00
TOTALS				283.96	100.00	100.00

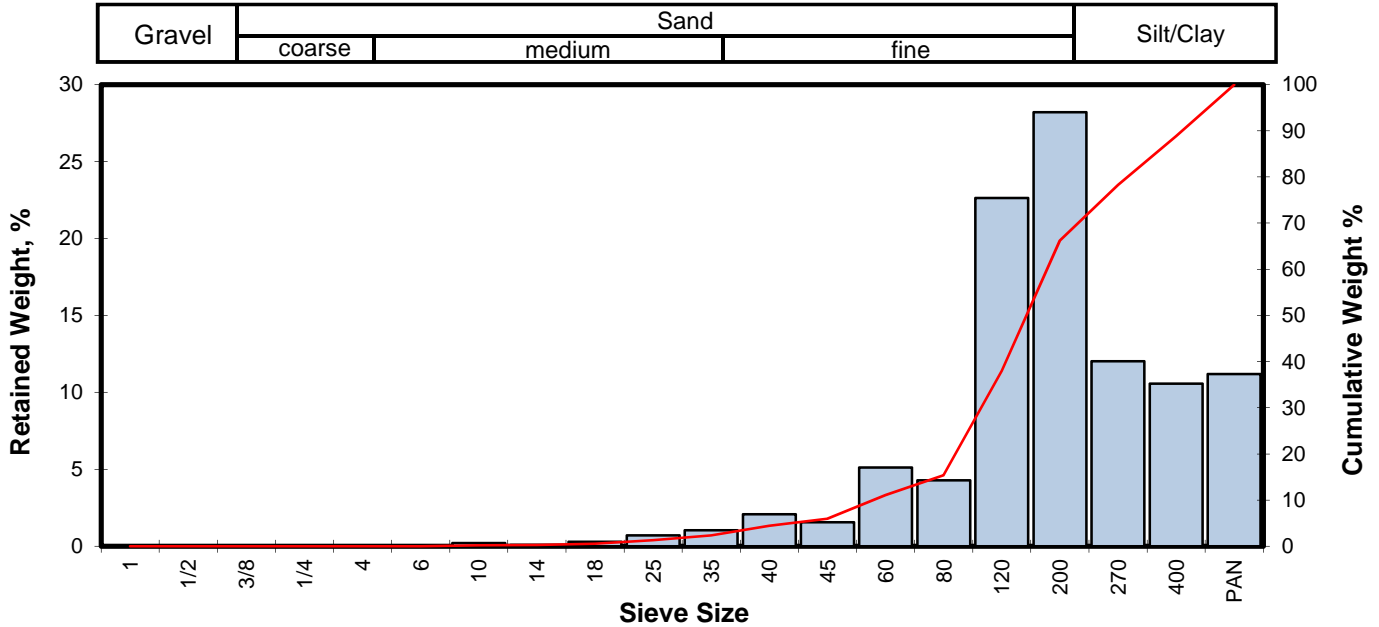
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.20	0.3606	9.161
10	-2.37	0.2038	5.176
16	-1.55	0.1154	2.931
25	-0.49	0.0553	1.406
40	1.02	0.0195	0.495
50	1.88	0.0107	0.272
60	2.64	0.0063	0.160
75	3.31	0.0040	0.101
84	3.75	0.0029	0.074
90	4.44	0.0018	0.046
95	3.24	0.0042	0.106

Measure	Trask	Inman	Folk-Ward
Median, phi	1.88	1.88	1.88
Median, in.	0.0107	0.0107	0.0107
Median, mm	0.272	0.272	0.272
Mean, phi	0.41	1.10	1.36
Mean, in.	0.0297	0.0184	0.0153
Mean, mm	0.753	0.467	0.390
Sorting	3.738	2.651	2.301
Skewness	1.384	-0.294	-0.436
Kurtosis	0.127	0.213	0.693
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	10.87
Coarse Sand	10	10.10
Medium Sand	40	22.48
Fine Sand	200	40.54
Silt/Clay	<200	16.01
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC175-39.5-39.8
 Depth, ft: 39.5-39.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.45	0.20	0.20
0.0557	1.414	-0.50	14	0.21	0.09	0.30
0.0394	1.000	0.00	18	0.66	0.30	0.59
0.0278	0.707	0.50	25	1.56	0.70	1.29
0.0197	0.500	1.00	35	2.34	1.05	2.34
0.0166	0.420	1.25	40	4.63	2.07	4.41
0.0139	0.354	1.50	45	3.48	1.56	5.97
0.0098	0.250	2.00	60	11.43	5.12	11.09
0.0070	0.177	2.50	80	9.56	4.28	15.37
0.0049	0.125	3.00	120	50.54	22.64	38.01
0.0029	0.074	3.75	200	62.96	28.20	66.22
0.0021	0.053	4.25	270	26.86	12.03	78.25
0.0015	0.037	4.75	400	23.58	10.56	88.81
			PAN	24.98	11.19	100.00
TOTALS				223.24	100.00	100.00

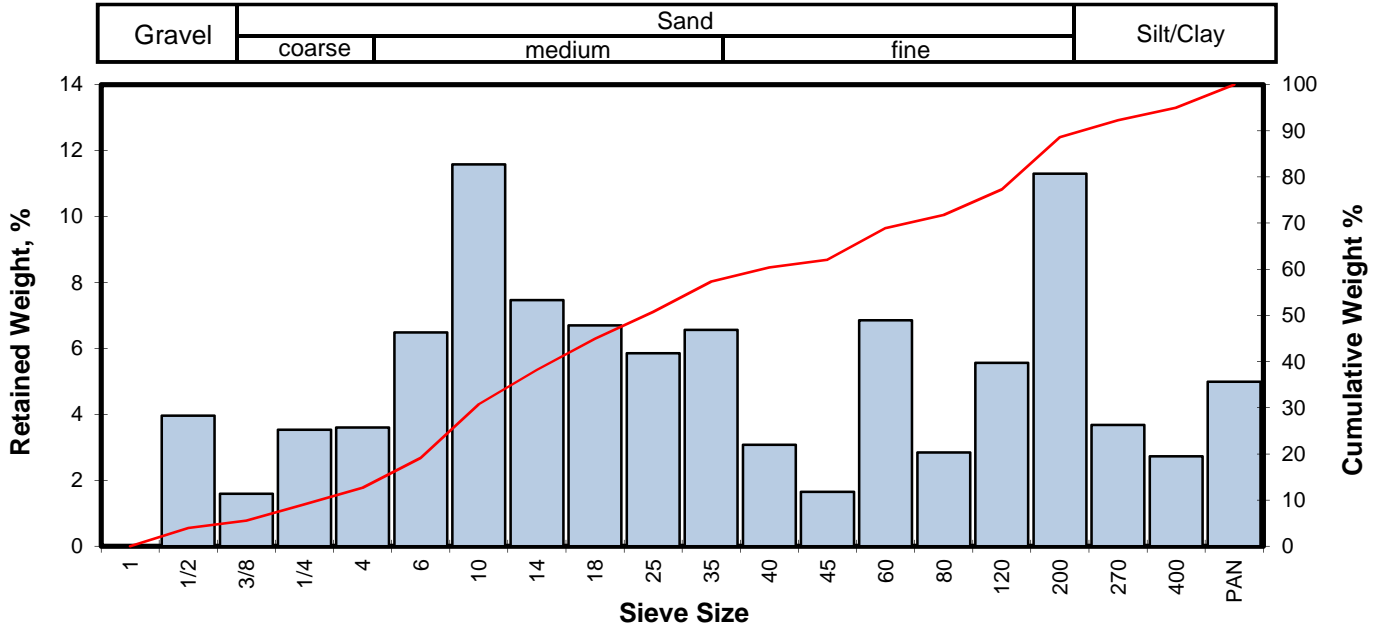
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.34	0.0155	0.394
10	1.89	0.0106	0.269
16	2.51	0.0069	0.175
25	2.71	0.0060	0.153
40	3.05	0.0047	0.121
50	3.32	0.0039	0.100
60	3.58	0.0033	0.083
75	4.12	0.0023	0.058
84	4.52	0.0017	0.044
90	4.24	0.0021	0.053
95	2.12	0.0090	0.230

Measure	Trask	Inman	Folk-Ward
Median, phi	3.32	3.32	3.32
Median, in.	0.0039	0.0039	0.0039
Median, mm	0.100	0.100	0.100
Mean, phi	3.25	3.52	3.45
Mean, in.	0.0041	0.0034	0.0036
Mean, mm	0.105	0.087	0.091
Sorting	1.626	1.004	0.620
Skewness	0.936	0.198	-1.938
Kurtosis	0.219	-0.613	0.227
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.20
Medium Sand	40	4.21
Fine Sand	200	61.80
Silt/Clay	<200	33.78
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC188-10.5-11.0
 Depth, ft: 10.5-11.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	10.55	3.96	3.96
0.3740	9.500	-3.25	3/8	4.25	1.59	5.55
0.2500	6.351	-2.67	1/4	9.43	3.54	9.09
0.1873	4.757	-2.25	4	9.59	3.60	12.69
0.1324	3.364	-1.75	6	17.27	6.48	19.17
0.0787	2.000	-1.00	10	30.87	11.58	30.75
0.0557	1.414	-0.50	14	19.89	7.46	38.21
0.0394	1.000	0.00	18	17.85	6.70	44.91
0.0278	0.707	0.50	25	15.59	5.85	50.76
0.0197	0.500	1.00	35	17.50	6.57	57.33
0.0166	0.420	1.25	40	8.19	3.07	60.40
0.0139	0.354	1.50	45	4.41	1.65	62.06
0.0098	0.250	2.00	60	18.27	6.86	68.91
0.0070	0.177	2.50	80	7.58	2.84	71.75
0.0049	0.125	3.00	120	14.83	5.56	77.32
0.0029	0.074	3.75	200	30.10	11.29	88.61
0.0021	0.053	4.25	270	9.80	3.68	92.29
0.0015	0.037	4.75	400	7.26	2.72	95.01
			PAN	13.29	4.99	100.00
TOTALS				266.52	100.00	100.00

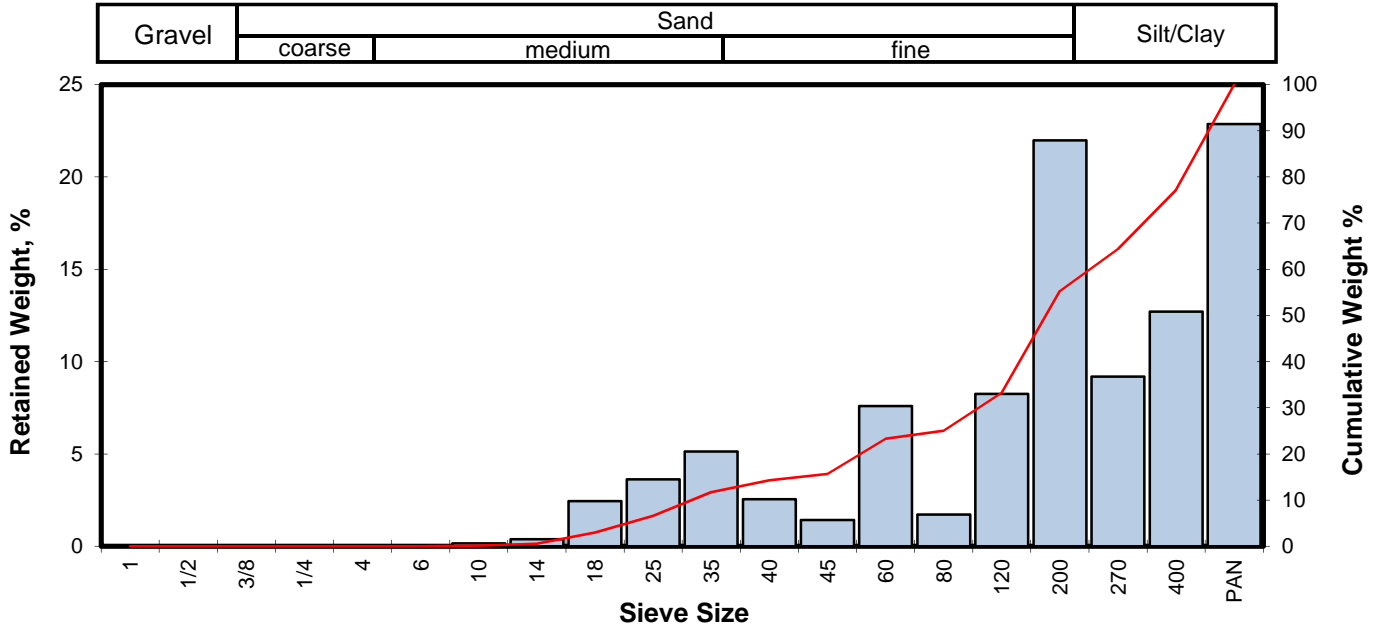
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.39	0.4114	10.449
10	-2.56	0.2324	5.904
16	-1.99	0.1569	3.985
25	-1.37	0.1019	2.589
40	-0.37	0.0508	1.289
50	0.43	0.0291	0.740
60	1.22	0.0169	0.430
75	2.79	0.0057	0.144
84	3.44	0.0036	0.092
90	3.94	0.0026	0.065
95	4.75	0.0015	0.037

Measure	Trask	Inman	Folk-Ward
Median, phi	0.43	0.43	0.43
Median, in.	0.0291	0.0291	0.0291
Median, mm	0.740	0.740	0.740
Mean, phi	-0.45	0.72	0.63
Mean, in.	0.0538	0.0238	0.0255
Mean, mm	1.367	0.605	0.647
Sorting	4.234	2.719	2.592
Skewness	0.827	0.107	0.084
Kurtosis	0.209	0.495	0.800
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	12.69
Coarse Sand	10	18.06
Medium Sand	40	29.65
Fine Sand	200	28.21
Silt/Clay	<200	11.39
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC188-39.5-40.5
 Depth, ft: 39.5-40.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.29	0.15	0.15
0.0557	1.414	-0.50	14	0.73	0.39	0.54
0.0394	1.000	0.00	18	4.58	2.44	2.98
0.0278	0.707	0.50	25	6.80	3.62	6.60
0.0197	0.500	1.00	35	9.65	5.13	11.73
0.0166	0.420	1.25	40	4.78	2.54	14.27
0.0139	0.354	1.50	45	2.66	1.42	15.69
0.0098	0.250	2.00	60	14.28	7.60	23.28
0.0070	0.177	2.50	80	3.23	1.72	25.00
0.0049	0.125	3.00	120	15.52	8.26	33.26
0.0029	0.074	3.75	200	41.32	21.98	55.24
0.0021	0.053	4.25	270	17.28	9.19	64.43
0.0015	0.037	4.75	400	23.88	12.70	77.14
			PAN	42.98	22.86	100.00
TOTALS				187.98	100.00	100.00

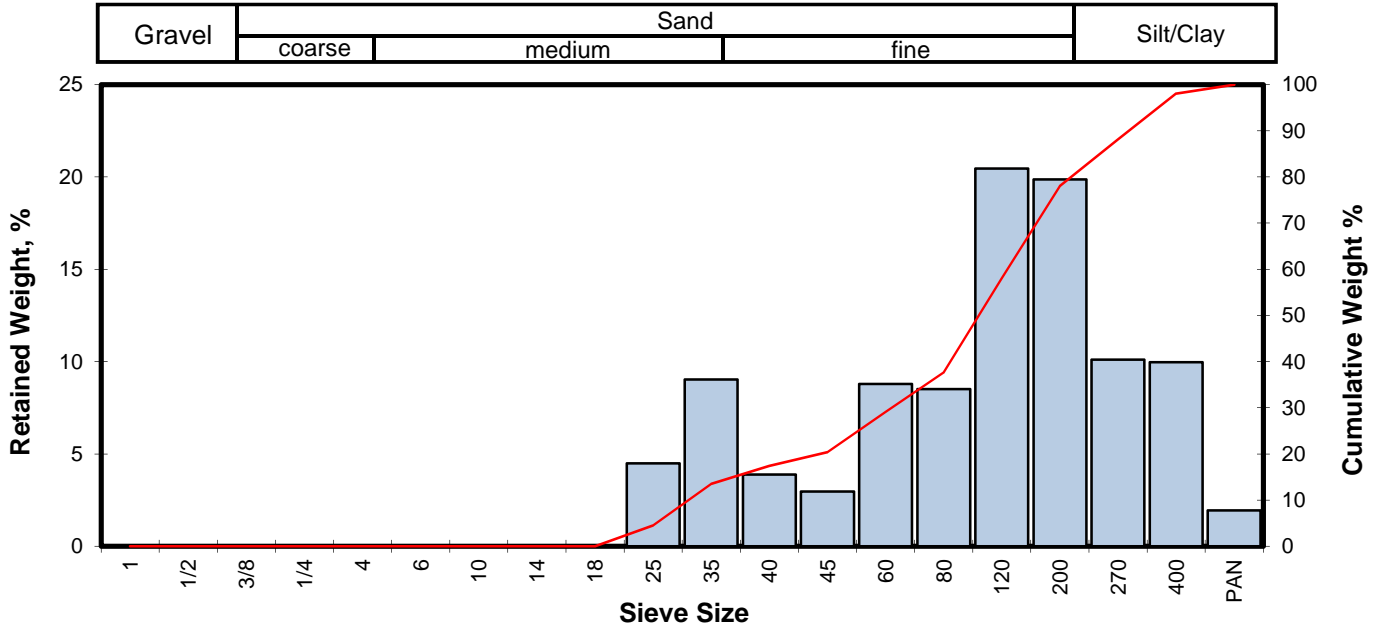
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.28	0.0324	0.824
10	0.83	0.0221	0.562
16	1.52	0.0137	0.349
25	2.50	0.0070	0.177
40	3.23	0.0042	0.107
50	3.57	0.0033	0.084
60	4.01	0.0024	0.062
75	4.67	0.0016	0.039
84	3.32	0.0039	0.100
90	2.08	0.0093	0.237
95	1.04	0.0192	0.487

Measure	Trask	Inman	Folk-Ward
Median, phi	3.57	3.57	3.57
Median, in.	0.0033	0.0033	0.0033
Median, mm	0.084	0.084	0.084
Mean, phi	3.21	2.42	2.81
Mean, in.	0.0043	0.0073	0.0056
Mean, mm	0.108	0.187	0.143
Sorting	2.119	0.902	0.566
Skewness	0.992	-1.274	-4.472
Kurtosis	0.211	-0.579	0.144
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.15
Medium Sand	40	14.12
Fine Sand	200	40.97
Silt/Clay	<200	44.76
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC188-56.0-56.7
 Depth, ft: 56.0-56.7



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	5.31	4.49	4.49
0.0197	0.500	1.00	35	10.67	9.02	13.52
0.0166	0.420	1.25	40	4.59	3.88	17.40
0.0139	0.354	1.50	45	3.50	2.96	20.36
0.0098	0.250	2.00	60	10.39	8.79	29.15
0.0070	0.177	2.50	80	10.07	8.52	37.66
0.0049	0.125	3.00	120	24.18	20.45	58.12
0.0029	0.074	3.75	200	23.49	19.87	77.98
0.0021	0.053	4.25	270	11.95	10.11	88.09
0.0015	0.037	4.75	400	11.78	9.96	98.05
			PAN	2.30	1.95	100.00
TOTALS				118.23	100.00	100.00

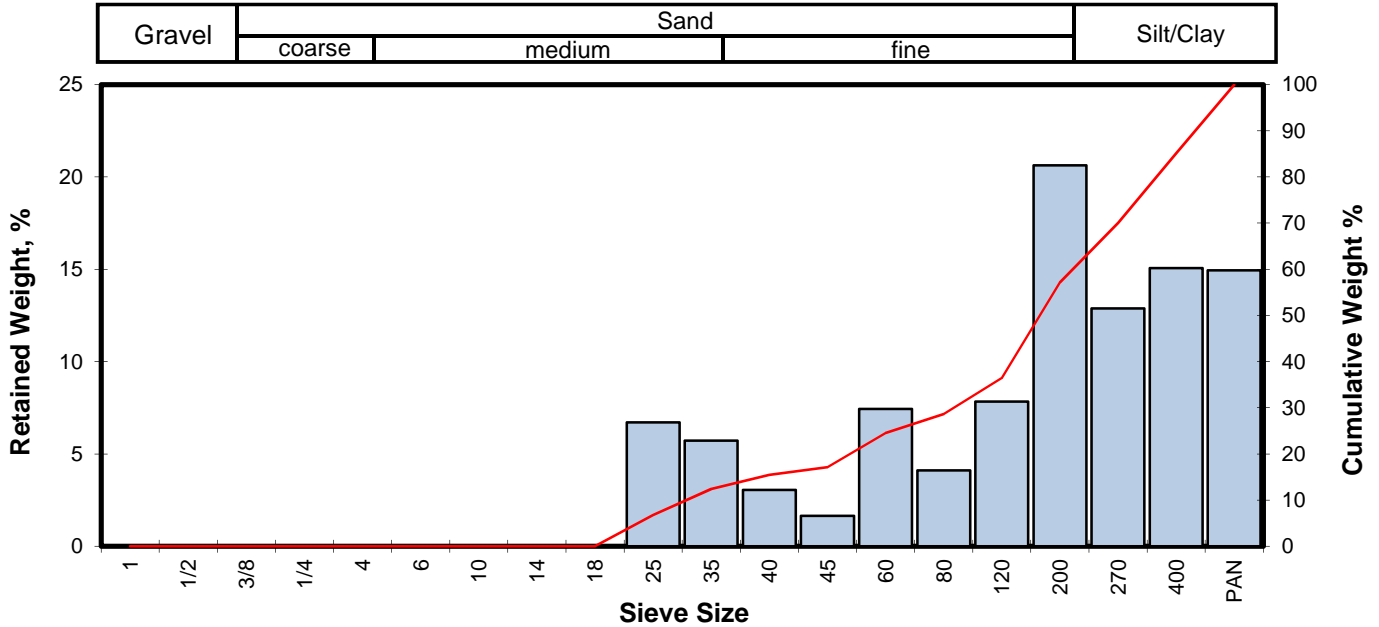
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.53	0.0273	0.693
10	0.81	0.0225	0.572
16	1.16	0.0176	0.448
25	1.76	0.0116	0.294
40	2.56	0.0067	0.170
50	2.80	0.0056	0.143
60	3.07	0.0047	0.119
75	3.64	0.0032	0.080
84	4.05	0.0024	0.060
90	4.35	0.0019	0.049
95	4.60	0.0016	0.041

Measure	Trask	Inman	Folk-Ward
Median, phi	2.80	2.80	2.80
Median, in.	0.0056	0.0056	0.0056
Median, mm	0.143	0.143	0.143
Mean, phi	2.42	2.60	2.67
Mean, in.	0.0074	0.0065	0.0062
Mean, mm	0.187	0.165	0.157
Sorting	1.914	1.444	1.338
Skewness	1.072	-0.137	-0.127
Kurtosis	0.205	0.409	0.890
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	17.40
Fine Sand	200	60.59
Silt/Clay	<200	22.02
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC188-66.0-66.7
 Depth, ft: 66.0-66.7



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	7.27	6.71	6.71
0.0197	0.500	1.00	35	6.20	5.72	12.43
0.0166	0.420	1.25	40	3.31	3.05	15.48
0.0139	0.354	1.50	45	1.78	1.64	17.12
0.0098	0.250	2.00	60	8.06	7.44	24.56
0.0070	0.177	2.50	80	4.45	4.11	28.67
0.0049	0.125	3.00	120	8.49	7.83	36.50
0.0029	0.074	3.75	200	22.35	20.62	57.12
0.0021	0.053	4.25	270	13.96	12.88	70.00
0.0015	0.037	4.75	400	16.32	15.06	85.05
			PAN	16.20	14.95	100.00
TOTALS				108.39	100.00	100.00

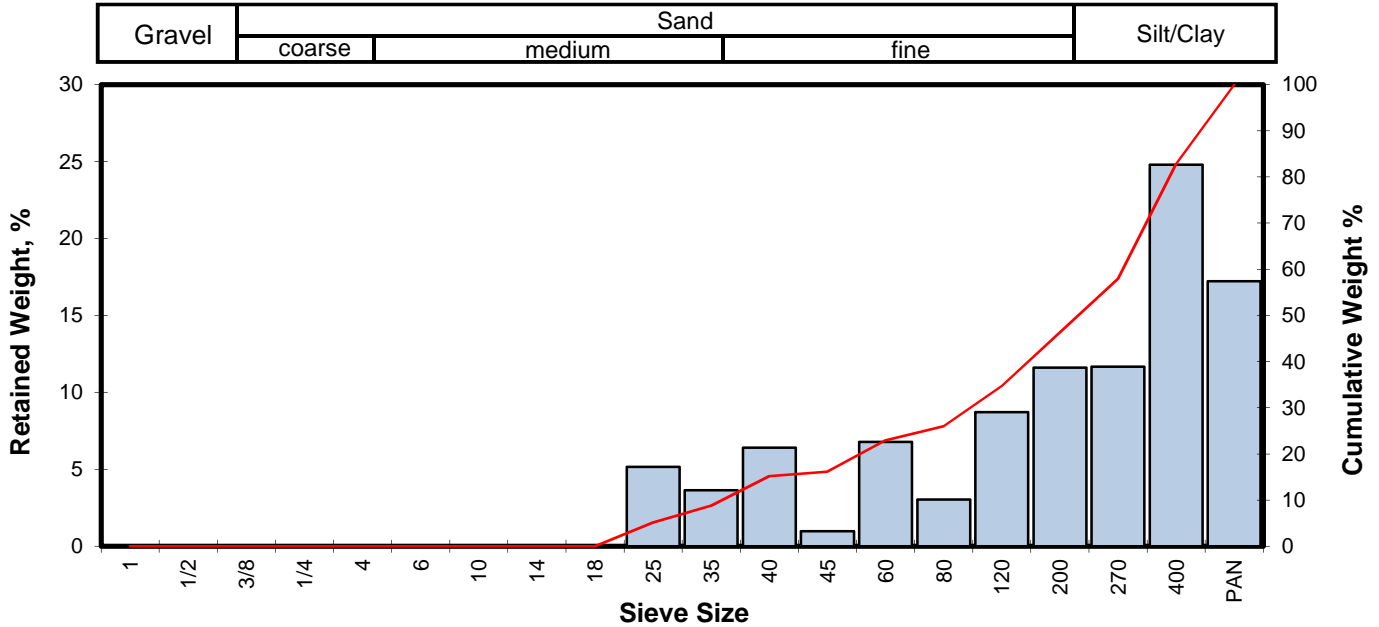
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.37	0.0304	0.772
10	0.79	0.0228	0.579
16	1.33	0.0157	0.398
25	2.05	0.0095	0.241
40	3.13	0.0045	0.114
50	3.49	0.0035	0.089
60	3.86	0.0027	0.069
75	4.42	0.0018	0.047
84	4.72	0.0015	0.038
90	3.18	0.0043	0.110
95	1.59	0.0131	0.332

Measure	Trask	Inman	Folk-Ward
Median, phi	3.49	3.49	3.49
Median, in.	0.0035	0.0035	0.0035
Median, mm	0.089	0.089	0.089
Mean, phi	2.80	3.02	3.18
Mean, in.	0.0057	0.0048	0.0043
Mean, mm	0.144	0.123	0.110
Sorting	2.268	1.693	1.031
Skewness	1.194	-0.277	-2.202
Kurtosis	0.207	-0.641	0.211
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	15.48
Fine Sand	200	41.64
Silt/Clay	<200	42.88
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC188-75.5-76.3
 Depth, ft: 75.5-76.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	6.92	5.17	5.17
0.0197	0.500	1.00	35	4.87	3.64	8.80
0.0166	0.420	1.25	40	8.59	6.41	15.21
0.0139	0.354	1.50	45	1.30	0.97	16.18
0.0098	0.250	2.00	60	9.08	6.78	22.96
0.0070	0.177	2.50	80	4.07	3.04	26.00
0.0049	0.125	3.00	120	11.68	8.72	34.72
0.0029	0.074	3.75	200	15.55	11.61	46.33
0.0021	0.053	4.25	270	15.62	11.66	57.99
0.0015	0.037	4.75	400	33.21	24.79	82.78
			PAN	23.07	17.22	100.00
TOTALS				133.96	100.00	100.00

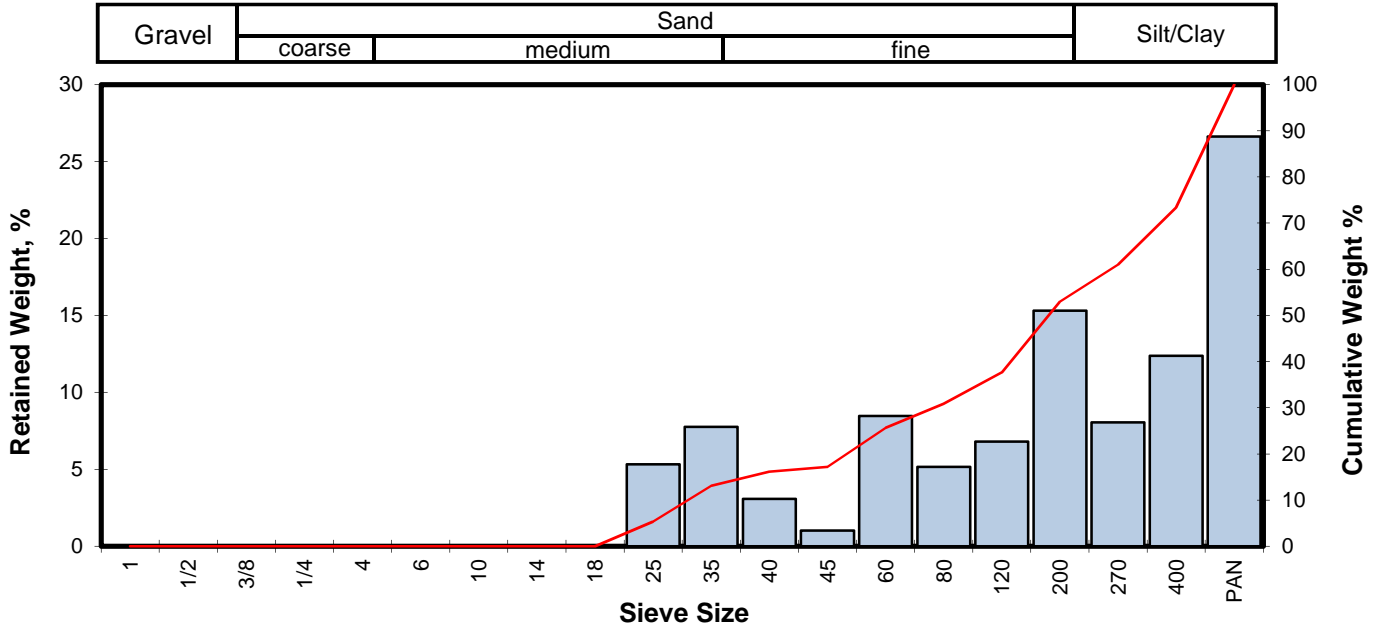
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.48	0.0282	0.715
10	1.05	0.0191	0.484
16	1.45	0.0144	0.365
25	2.34	0.0078	0.198
40	3.34	0.0039	0.099
50	3.91	0.0026	0.067
60	4.29	0.0020	0.051
75	4.59	0.0016	0.041
84	4.41	0.0018	0.047
90	2.76	0.0058	0.148
95	1.38	0.0151	0.384

Measure	Trask	Inman	Folk-Ward
Median, phi	3.91	3.91	3.91
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.067	0.067	0.067
Mean, phi	3.06	2.93	3.26
Mean, in.	0.0047	0.0052	0.0041
Mean, mm	0.120	0.131	0.105
Sorting	2.187	1.480	0.876
Skewness	1.360	-0.658	-3.654
Kurtosis	0.233	-0.698	0.162
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	15.21
Fine Sand	200	31.11
Silt/Clay	<200	53.67
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC188-86.5-87.0
 Depth, ft: 86.5-87.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	5.55	5.33	5.33
0.0197	0.500	1.00	35	8.08	7.76	13.10
0.0166	0.420	1.25	40	3.21	3.08	16.18
0.0139	0.354	1.50	45	1.07	1.03	17.21
0.0098	0.250	2.00	60	8.82	8.48	25.69
0.0070	0.177	2.50	80	5.36	5.15	30.84
0.0049	0.125	3.00	120	7.08	6.80	37.64
0.0029	0.074	3.75	200	15.93	15.31	52.95
0.0021	0.053	4.25	270	8.37	8.04	60.99
0.0015	0.037	4.75	400	12.88	12.38	73.37
			PAN	27.71	26.63	100.00
TOTALS				104.06	100.00	100.00

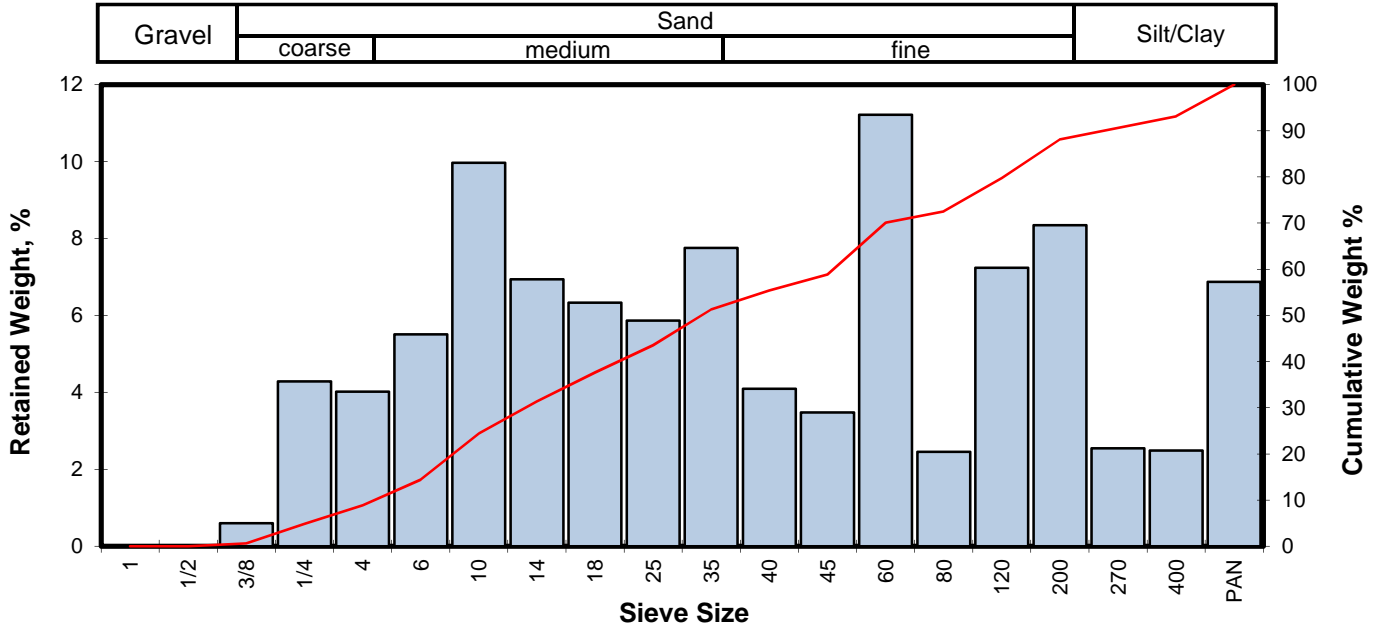
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.47	0.0284	0.723
10	0.80	0.0226	0.574
16	1.24	0.0167	0.425
25	1.96	0.0101	0.257
40	3.12	0.0045	0.115
50	3.61	0.0032	0.082
60	4.19	0.0022	0.055
75	4.46	0.0018	0.045
84	2.85	0.0054	0.138
90	1.78	0.0114	0.290
95	0.89	0.0212	0.539

Measure	Trask	Inman	Folk-Ward
Median, phi	3.61	3.61	3.61
Median, in.	0.0032	0.0032	0.0032
Median, mm	0.082	0.082	0.082
Mean, phi	2.72	2.04	2.56
Mean, in.	0.0060	0.0095	0.0067
Mean, mm	0.151	0.242	0.169
Sorting	2.378	0.809	0.469
Skewness	1.316	-1.928	-7.877
Kurtosis	0.373	-0.739	0.069
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	16.18
Fine Sand	200	36.77
Silt/Clay	<200	47.05
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC193-11.0-11.5
 Depth, ft: 11.0-11.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	1.55	0.60	0.60
0.2500	6.351	-2.67	1/4	11.05	4.29	4.89
0.1873	4.757	-2.25	4	10.37	4.02	8.91
0.1324	3.364	-1.75	6	14.20	5.51	14.42
0.0787	2.000	-1.00	10	25.70	9.97	24.39
0.0557	1.414	-0.50	14	17.89	6.94	31.33
0.0394	1.000	0.00	18	16.32	6.33	37.66
0.0278	0.707	0.50	25	15.12	5.87	43.52
0.0197	0.500	1.00	35	19.99	7.75	51.28
0.0166	0.420	1.25	40	10.56	4.10	55.37
0.0139	0.354	1.50	45	8.96	3.48	58.85
0.0098	0.250	2.00	60	28.91	11.21	70.06
0.0070	0.177	2.50	80	6.32	2.45	72.51
0.0049	0.125	3.00	120	18.66	7.24	79.75
0.0029	0.074	3.75	200	21.51	8.34	88.10
0.0021	0.053	4.25	270	6.57	2.55	90.64
0.0015	0.037	4.75	400	6.41	2.49	93.13
			PAN	17.71	6.87	100.00
TOTALS				257.80	100.00	100.00

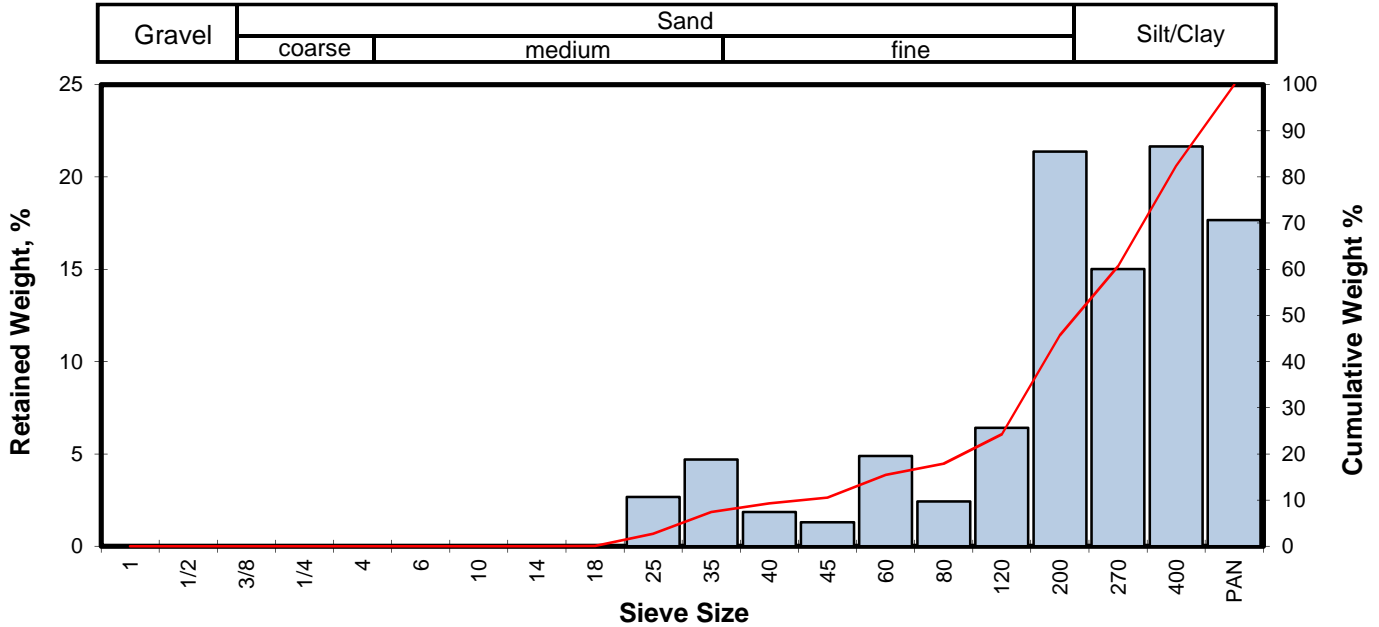
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.66	0.2480	6.300
10	-2.15	0.1749	4.442
16	-1.63	0.1219	3.097
25	-0.96	0.0764	1.940
40	0.20	0.0343	0.871
50	0.92	0.0208	0.529
60	1.55	0.0134	0.341
75	2.67	0.0062	0.157
84	3.38	0.0038	0.096
90	4.12	0.0023	0.057
95	3.46	0.0036	0.091

Measure	Trask	Inman	Folk-Ward
Median, phi	0.92	0.92	0.92
Median, in.	0.0208	0.0208	0.0208
Median, mm	0.529	0.529	0.529
Mean, phi	-0.07	0.88	0.89
Mean, in.	0.0413	0.0215	0.0213
Mean, mm	1.048	0.545	0.540
Sorting	3.516	2.506	2.179
Skewness	1.042	-0.017	-0.093
Kurtosis	0.203	0.219	0.691
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	8.91
Coarse Sand	10	15.48
Medium Sand	40	30.99
Fine Sand	200	32.72
Silt/Clay	<200	11.90
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC193-14.5-15.5
 Depth, ft: 14.5-15.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.07	0.05	0.05
0.0278	0.707	0.50	25	3.93	2.66	2.71
0.0197	0.500	1.00	35	6.94	4.70	7.41
0.0166	0.420	1.25	40	2.75	1.86	9.27
0.0139	0.354	1.50	45	1.91	1.29	10.57
0.0098	0.250	2.00	60	7.22	4.89	15.46
0.0070	0.177	2.50	80	3.58	2.42	17.88
0.0049	0.125	3.00	120	9.47	6.41	24.29
0.0029	0.074	3.75	200	31.56	21.37	45.67
0.0021	0.053	4.25	270	22.17	15.02	60.68
0.0015	0.037	4.75	400	31.96	21.65	82.33
			PAN	26.09	17.67	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.74	0.0235	0.597
10	1.39	0.0150	0.381
16	2.11	0.0091	0.231
25	3.02	0.0048	0.123
40	3.55	0.0034	0.085
50	3.89	0.0026	0.067
60	4.23	0.0021	0.053
75	4.58	0.0016	0.042
84	4.30	0.0020	0.051
90	2.69	0.0061	0.155
95	1.34	0.0155	0.394

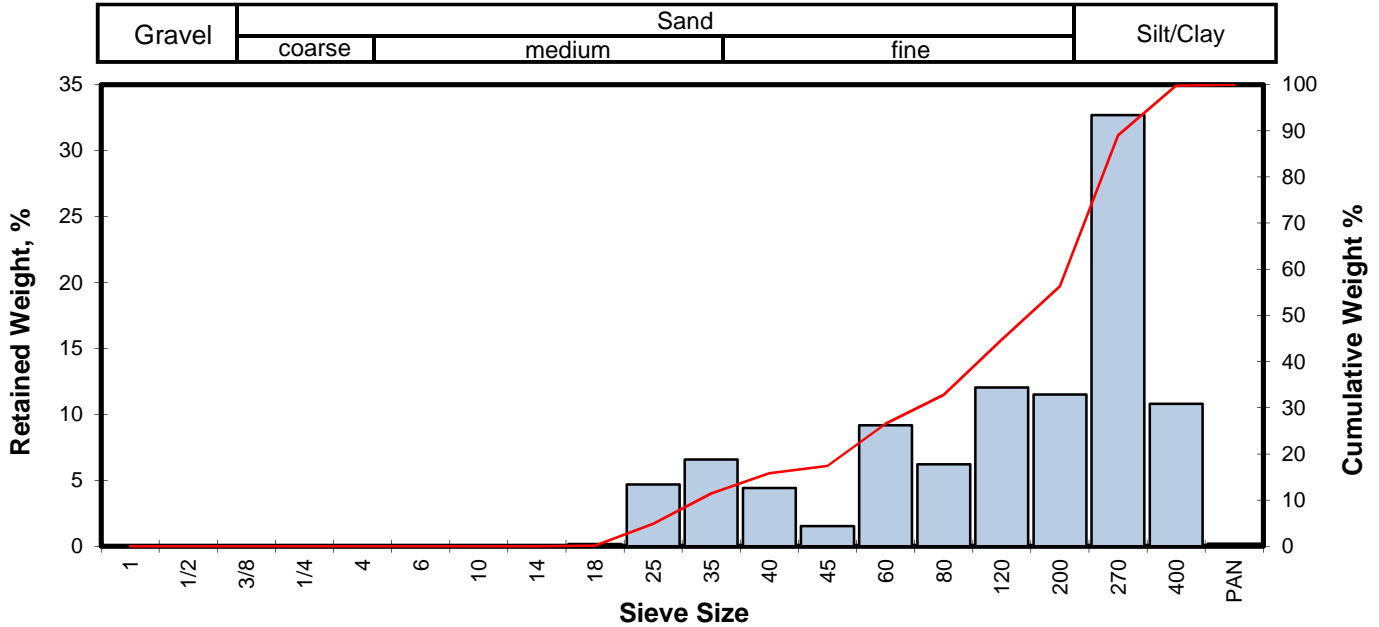
Measure	Trask	Inman	Folk-Ward
Median, phi	3.89	3.89	3.89
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.067	0.067	0.067
Mean, phi	3.60	3.21	3.44
Mean, in.	0.0032	0.0043	0.0036
Mean, mm	0.082	0.108	0.092
Sorting	1.715	1.094	0.638
Skewness	1.065	-0.628	-5.062
Kurtosis	0.179	-0.726	0.158
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	9.27
Fine Sand	200	36.40
Silt/Clay	<200	54.33
TOTALS	Total	100

TOTALS	147.65	100.00	100.00
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Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC193-26.3-27.0
 Depth, ft: 26.3-27.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.24	0.18	0.18
0.0278	0.707	0.50	25	6.40	4.67	4.85
0.0197	0.500	1.00	35	9.01	6.58	11.43
0.0166	0.420	1.25	40	6.04	4.41	15.84
0.0139	0.354	1.50	45	2.10	1.53	17.38
0.0098	0.250	2.00	60	12.57	9.18	26.56
0.0070	0.177	2.50	80	8.50	6.21	32.77
0.0049	0.125	3.00	120	16.49	12.04	44.81
0.0029	0.074	3.75	200	15.74	11.50	56.31
0.0021	0.053	4.25	270	44.75	32.69	88.99
0.0015	0.037	4.75	400	14.79	10.80	99.80
			PAN	0.28	0.20	100.00
TOTALS				136.91	100.00	100.00

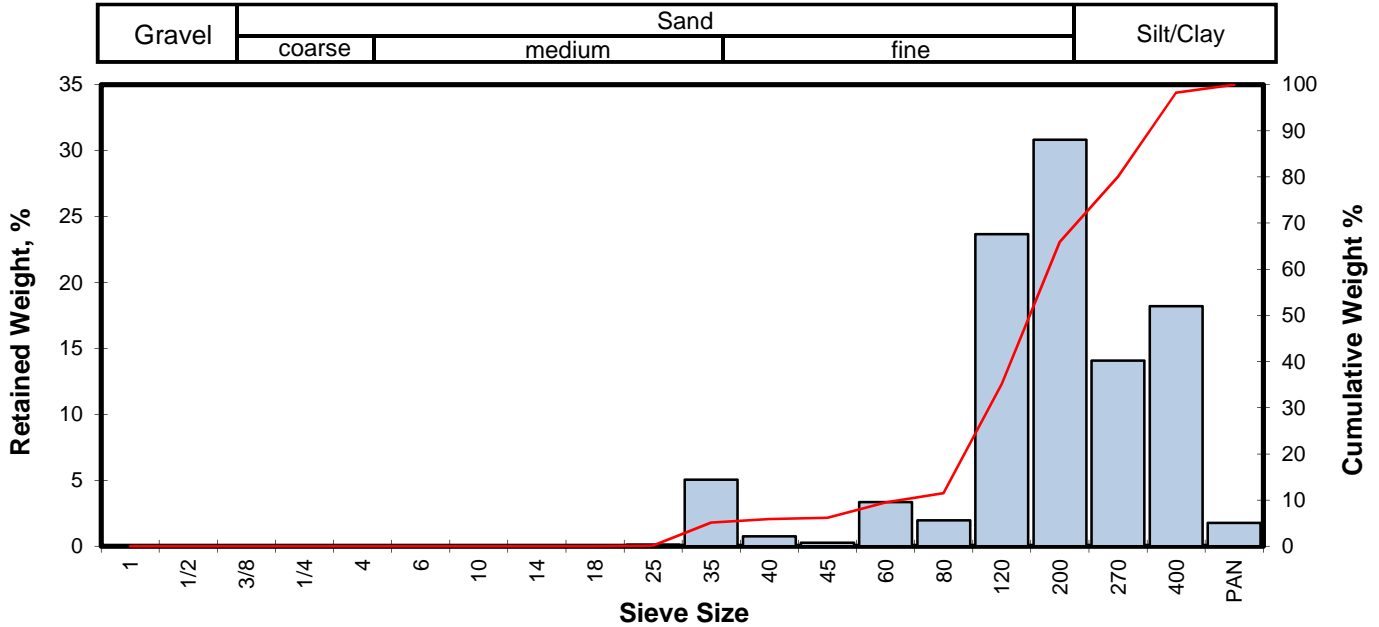
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.51	0.0276	0.702
10	0.89	0.0212	0.539
16	1.28	0.0163	0.413
25	1.92	0.0104	0.265
40	2.80	0.0057	0.144
50	3.34	0.0039	0.099
60	3.81	0.0028	0.071
75	4.04	0.0024	0.061
84	4.17	0.0022	0.055
90	4.30	0.0020	0.051
95	4.53	0.0017	0.043

Measure	Trask	Inman	Folk-Ward
Median, phi	3.34	3.34	3.34
Median, in.	0.0039	0.0039	0.0039
Median, mm	0.099	0.099	0.099
Mean, phi	2.62	2.72	2.93
Mean, in.	0.0064	0.0060	0.0052
Mean, mm	0.163	0.151	0.131
Sorting	2.085	1.449	1.333
Skewness	1.286	-0.424	-0.416
Kurtosis	0.209	0.386	0.776
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	15.84
Fine Sand	200	40.46
Silt/Clay	<200	43.69
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC193-36.3-37.0
 Depth, ft: 36.3-37.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.19	0.12	0.12
0.0197	0.500	1.00	35	7.93	5.04	5.16
0.0166	0.420	1.25	40	1.19	0.76	5.91
0.0139	0.354	1.50	45	0.41	0.26	6.17
0.0098	0.250	2.00	60	5.27	3.35	9.52
0.0070	0.177	2.50	80	3.09	1.96	11.49
0.0049	0.125	3.00	120	37.23	23.65	35.14
0.0029	0.074	3.75	200	48.52	30.82	65.96
0.0021	0.053	4.25	270	22.17	14.08	80.05
0.0015	0.037	4.75	400	28.63	18.19	98.23
			PAN	2.78	1.77	100.00
TOTALS				157.41	100.00	100.00

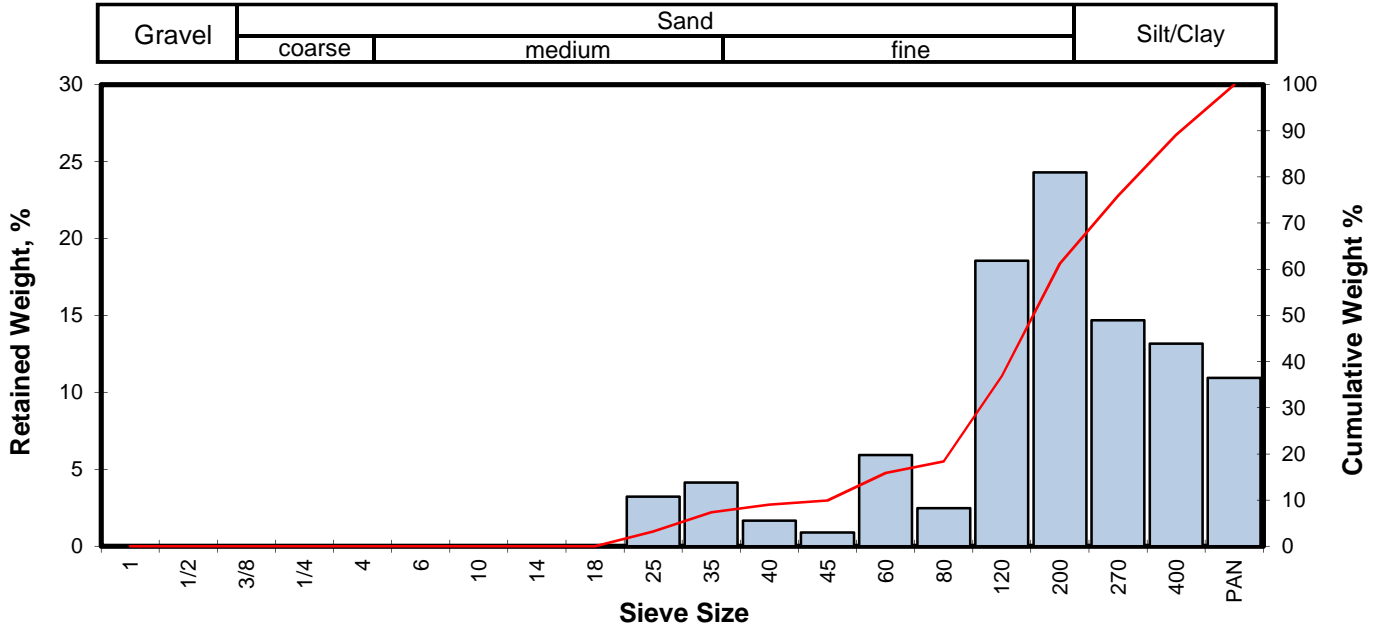
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.98	0.0199	0.505
10	2.12	0.0090	0.230
16	2.60	0.0065	0.165
25	2.79	0.0057	0.145
40	3.12	0.0045	0.115
50	3.36	0.0038	0.097
60	3.60	0.0032	0.082
75	4.07	0.0023	0.060
84	4.36	0.0019	0.049
90	4.52	0.0017	0.043
95	4.66	0.0016	0.040

Measure	Trask	Inman	Folk-Ward
Median, phi	3.36	3.36	3.36
Median, in.	0.0038	0.0038	0.0038
Median, mm	0.097	0.097	0.097
Mean, phi	3.29	3.48	3.44
Mean, in.	0.0040	0.0035	0.0036
Mean, mm	0.102	0.090	0.092
Sorting	1.561	0.882	0.998
Skewness	0.955	0.131	-0.081
Kurtosis	0.229	1.085	1.173
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.91
Fine Sand	200	60.05
Silt/Clay	<200	34.04
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC193-46.3-47.0
 Depth, ft: 46.3-47.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	4.01	3.22	3.22
0.0197	0.500	1.00	35	5.16	4.15	7.37
0.0166	0.420	1.25	40	2.08	1.67	9.05
0.0139	0.354	1.50	45	1.11	0.89	9.94
0.0098	0.250	2.00	60	7.37	5.93	15.87
0.0070	0.177	2.50	80	3.09	2.48	18.35
0.0049	0.125	3.00	120	23.08	18.56	36.91
0.0029	0.074	3.75	200	30.21	24.29	61.21
0.0021	0.053	4.25	270	18.27	14.69	75.90
0.0015	0.037	4.75	400	16.37	13.16	89.06
			PAN	13.60	10.94	100.00
TOTALS				124.35	100.00	100.00

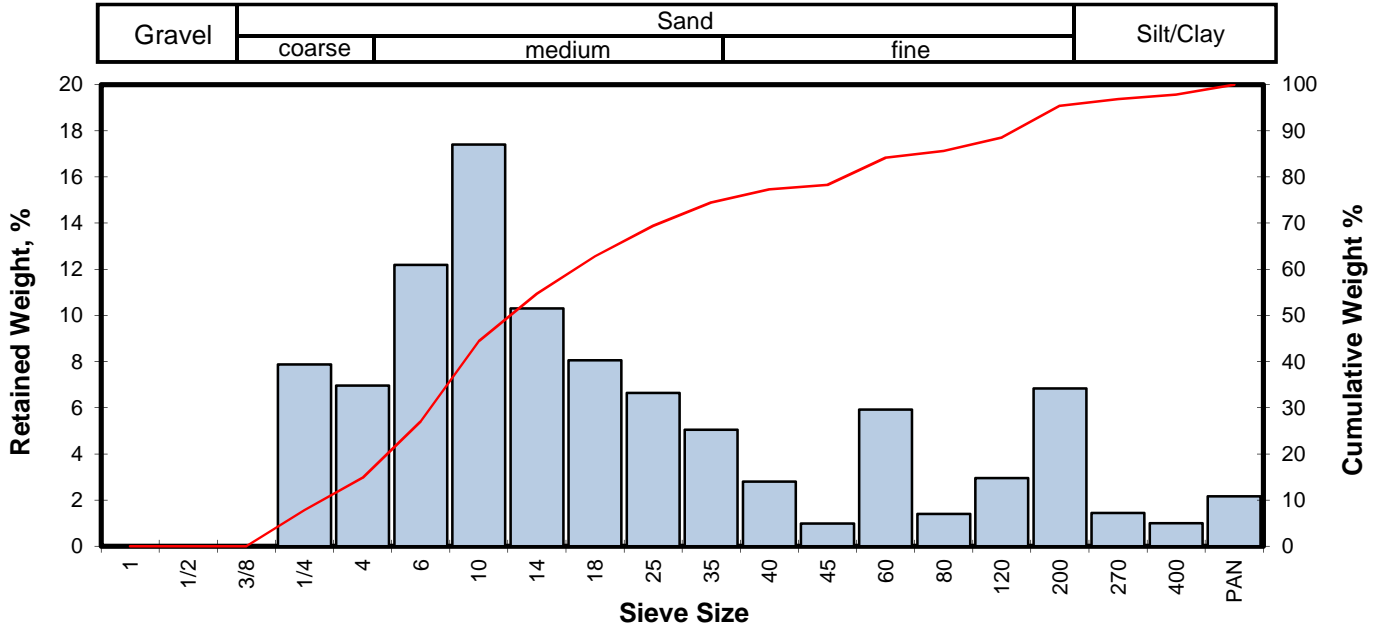
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.71	0.0240	0.610
10	1.51	0.0139	0.352
16	2.03	0.0097	0.245
25	2.68	0.0061	0.156
40	3.10	0.0046	0.117
50	3.40	0.0037	0.094
60	3.71	0.0030	0.076
75	4.22	0.0021	0.054
84	4.56	0.0017	0.042
90	4.34	0.0019	0.049
95	2.17	0.0087	0.222

Measure	Trask	Inman	Folk-Ward
Median, phi	3.40	3.40	3.40
Median, in.	0.0037	0.0037	0.0037
Median, mm	0.094	0.094	0.094
Mean, phi	3.25	3.29	3.33
Mean, in.	0.0041	0.0040	0.0039
Mean, mm	0.105	0.102	0.099
Sorting	1.705	1.265	0.854
Skewness	0.969	-0.088	-1.390
Kurtosis	0.169	-0.424	0.388
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	9.05
Fine Sand	200	52.16
Silt/Clay	<200	38.79
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB5 - 16.0-16.3
 Depth, ft: 16.0-16.3



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	19.94	7.87	7.87
0.1873	4.757	-2.25	4	17.62	6.96	14.83
0.1324	3.364	-1.75	6	30.87	12.19	27.02
0.0787	2.000	-1.00	10	44.07	17.40	44.42
0.0557	1.414	-0.50	14	26.09	10.30	54.72
0.0394	1.000	0.00	18	20.42	8.06	62.79
0.0278	0.707	0.50	25	16.82	6.64	69.43
0.0197	0.500	1.00	35	12.80	5.05	74.48
0.0166	0.420	1.25	40	7.10	2.80	77.28
0.0139	0.354	1.50	45	2.51	0.99	78.28
0.0098	0.250	2.00	60	14.99	5.92	84.19
0.0070	0.177	2.50	80	3.54	1.40	85.59
0.0049	0.125	3.00	120	7.49	2.96	88.55
0.0029	0.074	3.75	200	17.32	6.84	95.39
0.0021	0.053	4.25	270	3.66	1.45	96.83
0.0015	0.037	4.75	400	2.53	1.00	97.83
			PAN	5.49	2.17	100.00
TOTALS				253.26	100.00	100.00

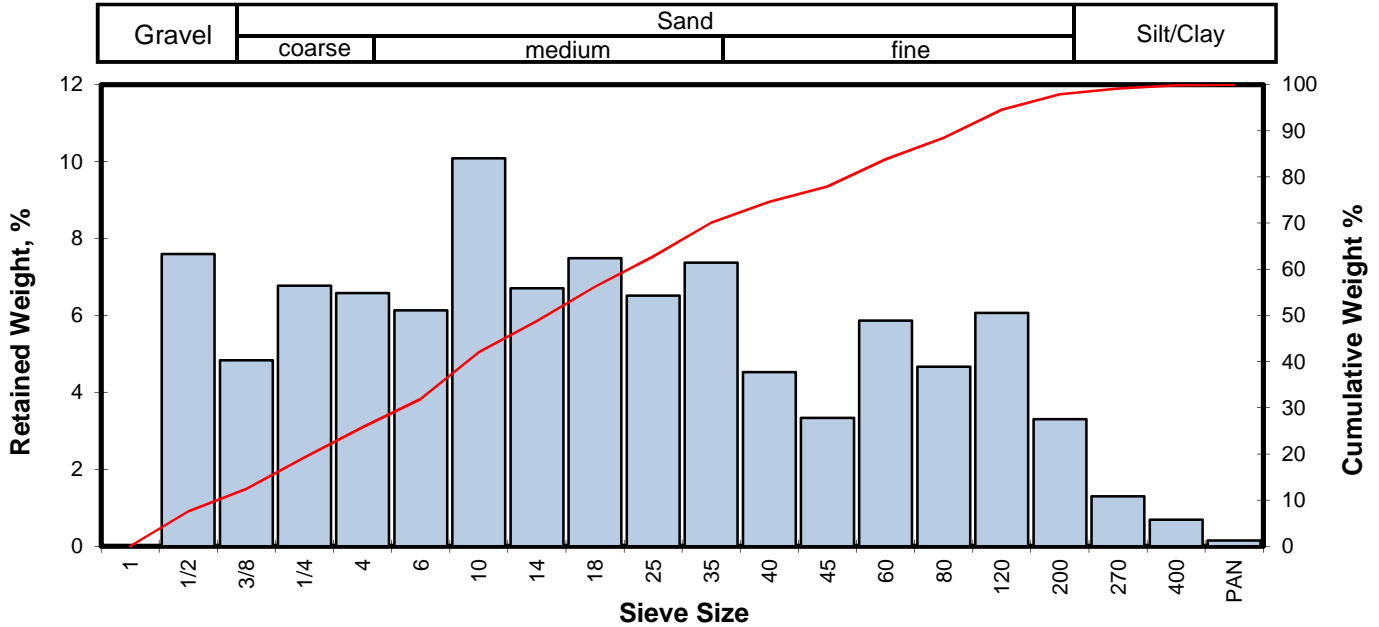
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-2.88	0.2896	7.357
10	-2.54	0.2289	5.814
16	-2.20	0.1812	4.601
25	-1.83	0.1403	3.562
40	-1.19	0.0899	2.282
50	-0.73	0.0653	1.658
60	-0.17	0.0444	1.127
75	1.05	0.0191	0.484
84	1.98	0.0100	0.253
90	3.16	0.0044	0.112
95	3.71	0.0030	0.077

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.73	-0.73	-0.73
Median, in.	0.0653	0.0653	0.0653
Median, mm	1.658	1.658	1.658
Mean, phi	-1.02	-0.11	-0.32
Mean, in.	0.0797	0.0425	0.0490
Mean, mm	2.023	1.079	1.245
Sorting	2.712	2.093	2.044
Skewness	0.792	0.296	0.322
Kurtosis	0.270	0.574	0.938
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	14.83
Coarse Sand	10	29.59
Medium Sand	40	32.86
Fine Sand	200	18.10
Silt/Clay	<200	4.61
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB5 -46.5-47.0
 Depth, ft: 46.5-47.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	13.33	7.59	7.59
0.3740	9.500	-3.25	3/8	8.49	4.84	12.43
0.2500	6.351	-2.67	1/4	11.89	6.77	19.20
0.1873	4.757	-2.25	4	11.55	6.58	25.78
0.1324	3.364	-1.75	6	10.77	6.14	31.92
0.0787	2.000	-1.00	10	17.70	10.08	42.00
0.0557	1.414	-0.50	14	11.77	6.71	48.71
0.0394	1.000	0.00	18	13.15	7.49	56.20
0.0278	0.707	0.50	25	11.44	6.52	62.72
0.0197	0.500	1.00	35	12.94	7.37	70.09
0.0166	0.420	1.25	40	7.95	4.53	74.62
0.0139	0.354	1.50	45	5.86	3.34	77.96
0.0098	0.250	2.00	60	10.30	5.87	83.83
0.0070	0.177	2.50	80	8.19	4.67	88.49
0.0049	0.125	3.00	120	10.65	6.07	94.56
0.0029	0.074	3.75	200	5.80	3.30	97.86
0.0021	0.053	4.25	270	2.28	1.30	99.16
0.0015	0.037	4.75	400	1.21	0.69	99.85
			PAN	0.26	0.15	100.00
TOTALS				175.53	100.00	100.00

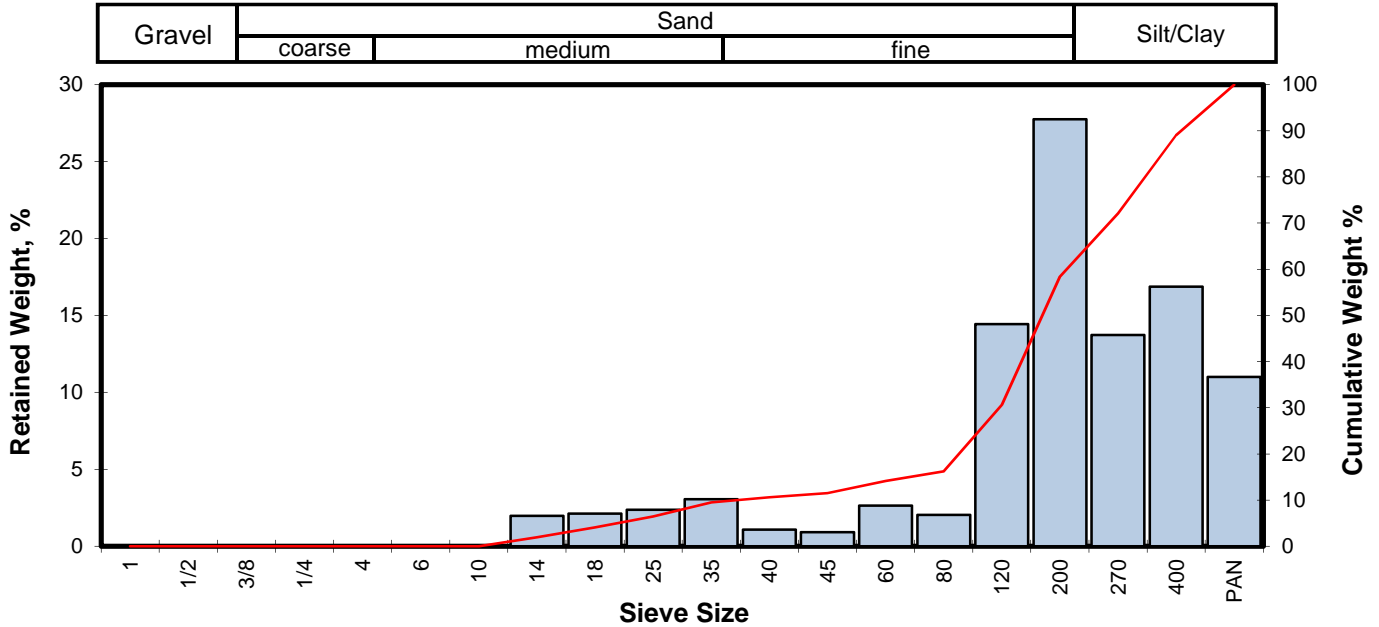
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.99	0.6237	15.841
10	-3.45	0.4294	10.906
16	-2.94	0.3025	7.684
25	-2.30	0.1938	4.924
40	-1.15	0.0873	2.218
50	-0.41	0.0525	1.332
60	0.29	0.0322	0.817
75	1.28	0.0162	0.412
84	2.02	0.0097	0.247
90	2.62	0.0064	0.162
95	3.10	0.0046	0.117

Measure	Trask	Inman	Folk-Ward
Median, phi	-0.41	-0.41	-0.41
Median, in.	0.0525	0.0525	0.0525
Median, mm	1.332	1.332	1.332
Mean, phi	-1.42	-0.46	-0.45
Mean, in.	0.1050	0.0542	0.0536
Mean, mm	2.668	1.377	1.362
Sorting	3.456	2.480	2.314
Skewness	1.069	-0.019	-0.014
Kurtosis	0.210	0.428	0.812
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	25.78
Coarse Sand	10	16.22
Medium Sand	40	32.62
Fine Sand	200	23.24
Silt/Clay	<200	2.14
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB5 -54.5-55.0
 Depth, ft: 54.5-55.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	2.96	1.97	1.97
0.0394	1.000	0.00	18	3.19	2.12	4.10
0.0278	0.707	0.50	25	3.55	2.36	6.46
0.0197	0.500	1.00	35	4.60	3.06	9.52
0.0166	0.420	1.25	40	1.62	1.08	10.60
0.0139	0.354	1.50	45	1.37	0.91	11.51
0.0098	0.250	2.00	60	3.98	2.65	14.16
0.0070	0.177	2.50	80	3.07	2.04	16.21
0.0049	0.125	3.00	120	21.67	14.43	30.64
0.0029	0.074	3.75	200	41.68	27.76	58.39
0.0021	0.053	4.25	270	20.62	13.73	72.12
0.0015	0.037	4.75	400	25.33	16.87	88.99
			PAN	16.53	11.01	100.00
TOTALS				150.17	100.00	100.00

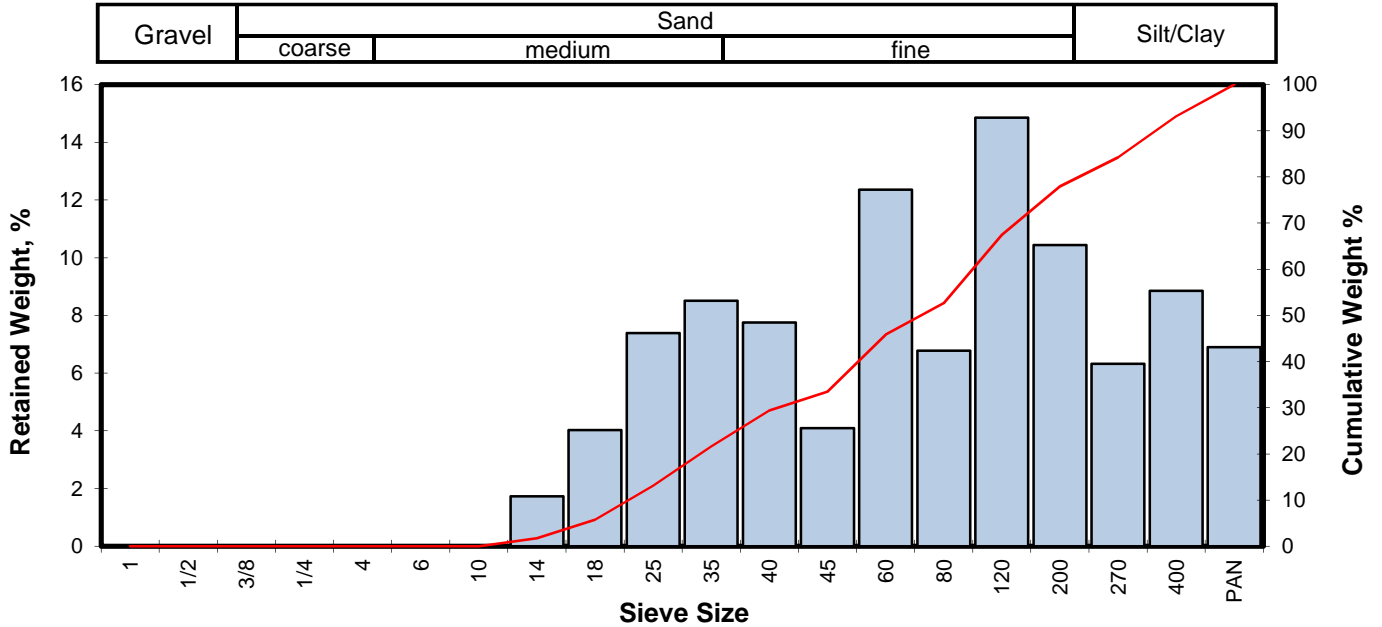
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.19	0.0345	0.876
10	1.11	0.0182	0.463
16	2.45	0.0072	0.183
25	2.80	0.0056	0.143
40	3.25	0.0041	0.105
50	3.52	0.0034	0.087
60	3.81	0.0028	0.071
75	4.34	0.0020	0.050
84	4.60	0.0016	0.041
90	4.32	0.0020	0.050
95	2.16	0.0088	0.224

Measure	Trask	Inman	Folk-Ward
Median, phi	3.52	3.52	3.52
Median, in.	0.0034	0.0034	0.0034
Median, mm	0.087	0.087	0.087
Mean, phi	3.38	3.53	3.52
Mean, in.	0.0038	0.0034	0.0034
Mean, mm	0.096	0.087	0.087
Sorting	1.700	1.076	0.836
Skewness	0.968	0.002	-1.193
Kurtosis	0.113	-0.087	0.526
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	10.60
Fine Sand	200	47.79
Silt/Clay	<200	41.61
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB5 -64.0-64.5
 Depth, ft: 64.0-64.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	3.25	1.73	1.73
0.0394	1.000	0.00	18	7.57	4.02	5.75
0.0278	0.707	0.50	25	13.90	7.39	13.14
0.0197	0.500	1.00	35	16.01	8.51	21.65
0.0166	0.420	1.25	40	14.58	7.75	29.40
0.0139	0.354	1.50	45	7.70	4.09	33.49
0.0098	0.250	2.00	60	23.26	12.36	45.85
0.0070	0.177	2.50	80	12.76	6.78	52.63
0.0049	0.125	3.00	120	27.95	14.86	67.49
0.0029	0.074	3.75	200	19.64	10.44	77.93
0.0021	0.053	4.25	270	11.89	6.32	84.25
0.0015	0.037	4.75	400	16.66	8.85	93.10
			PAN	12.98	6.90	100.00
TOTALS				188.15	100.00	100.00

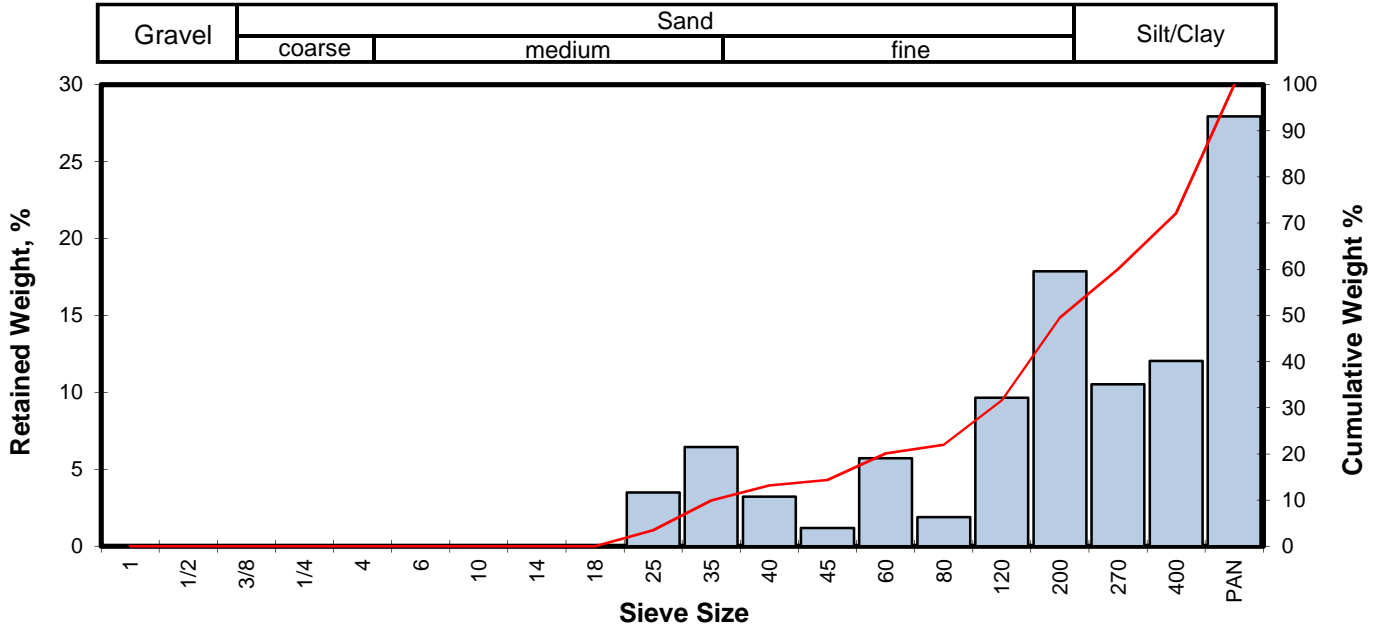
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.09	0.0420	1.067
10	0.29	0.0323	0.819
16	0.67	0.0248	0.629
25	1.11	0.0183	0.464
40	1.76	0.0116	0.295
50	2.31	0.0080	0.202
60	2.75	0.0059	0.149
75	3.54	0.0034	0.086
84	4.23	0.0021	0.053
90	4.57	0.0017	0.042
95	3.44	0.0036	0.092

Measure	Trask	Inman	Folk-Ward
Median, phi	2.31	2.31	2.31
Median, in.	0.0080	0.0080	0.0080
Median, mm	0.202	0.202	0.202
Mean, phi	1.86	2.45	2.40
Mean, in.	0.0108	0.0072	0.0075
Mean, mm	0.275	0.183	0.189
Sorting	2.323	1.781	1.426
Skewness	0.988	0.081	-0.138
Kurtosis	0.243	-0.007	0.596
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	29.40
Fine Sand	200	48.53
Silt/Clay	<200	22.07
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB5 -75.0-75.5
 Depth, ft: 75.0-75.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	3.55	3.50	3.50
0.0197	0.500	1.00	35	6.53	6.44	9.94
0.0166	0.420	1.25	40	3.27	3.22	13.16
0.0139	0.354	1.50	45	1.21	1.19	14.36
0.0098	0.250	2.00	60	5.80	5.72	20.07
0.0070	0.177	2.50	80	1.93	1.90	21.98
0.0049	0.125	3.00	120	9.79	9.65	31.63
0.0029	0.074	3.75	200	18.13	17.88	49.51
0.0021	0.053	4.25	270	10.68	10.53	60.04
0.0015	0.037	4.75	400	12.21	12.04	72.08
			PAN	28.32	27.92	100.00
TOTALS				101.42	100.00	100.00

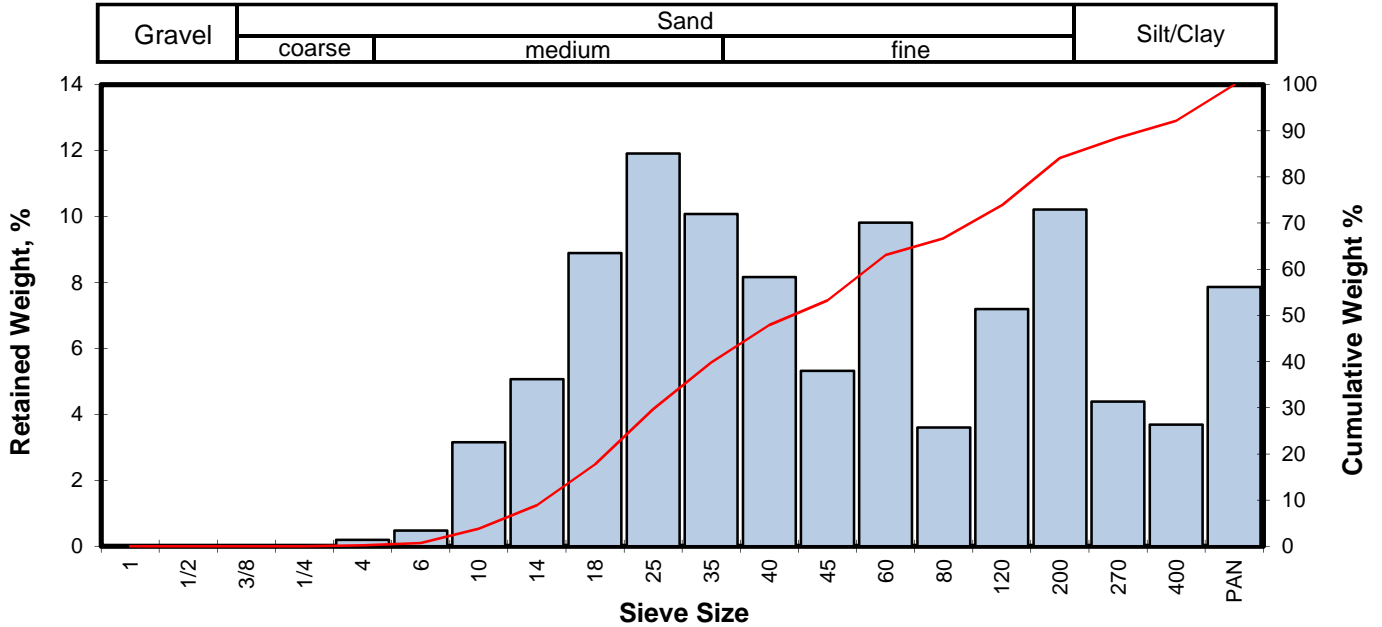
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.62	0.0257	0.652
10	1.00	0.0196	0.498
16	1.64	0.0126	0.320
25	2.66	0.0062	0.159
40	3.35	0.0039	0.098
50	3.77	0.0029	0.073
60	4.25	0.0021	0.053
75	4.25	0.0021	0.052
84	2.72	0.0060	0.152
90	1.70	0.0121	0.308
95	0.85	0.0218	0.555

Measure	Trask	Inman	Folk-Ward
Median, phi	3.77	3.77	3.77
Median, in.	0.0029	0.0029	0.0029
Median, mm	0.073	0.073	0.073
Mean, phi	3.24	2.18	2.71
Mean, in.	0.0042	0.0087	0.0060
Mean, mm	0.106	0.220	0.153
Sorting	1.739	0.539	0.305
Skewness	1.247	-2.951	-14.462
Kurtosis	0.278	-0.783	0.060
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	13.16
Fine Sand	200	36.34
Silt/Clay	<200	50.49
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB5 -87.0-87.5
 Depth, ft: 87.0-87.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.37	0.19	0.19
0.1324	3.364	-1.75	6	0.92	0.47	0.67
0.0787	2.000	-1.00	10	6.12	3.16	3.82
0.0557	1.414	-0.50	14	9.83	5.07	8.89
0.0394	1.000	0.00	18	17.24	8.89	17.78
0.0278	0.707	0.50	25	23.10	11.91	29.69
0.0197	0.500	1.00	35	19.54	10.08	39.76
0.0166	0.420	1.25	40	15.84	8.17	47.93
0.0139	0.354	1.50	45	10.31	5.32	53.25
0.0098	0.250	2.00	60	19.03	9.81	63.06
0.0070	0.177	2.50	80	6.99	3.60	66.66
0.0049	0.125	3.00	120	13.94	7.19	73.85
0.0029	0.074	3.75	200	19.81	10.21	84.07
0.0021	0.053	4.25	270	8.50	4.38	88.45
0.0015	0.037	4.75	400	7.15	3.69	92.14
			PAN	15.25	7.86	100.00
TOTALS				193.94	100.00	100.00

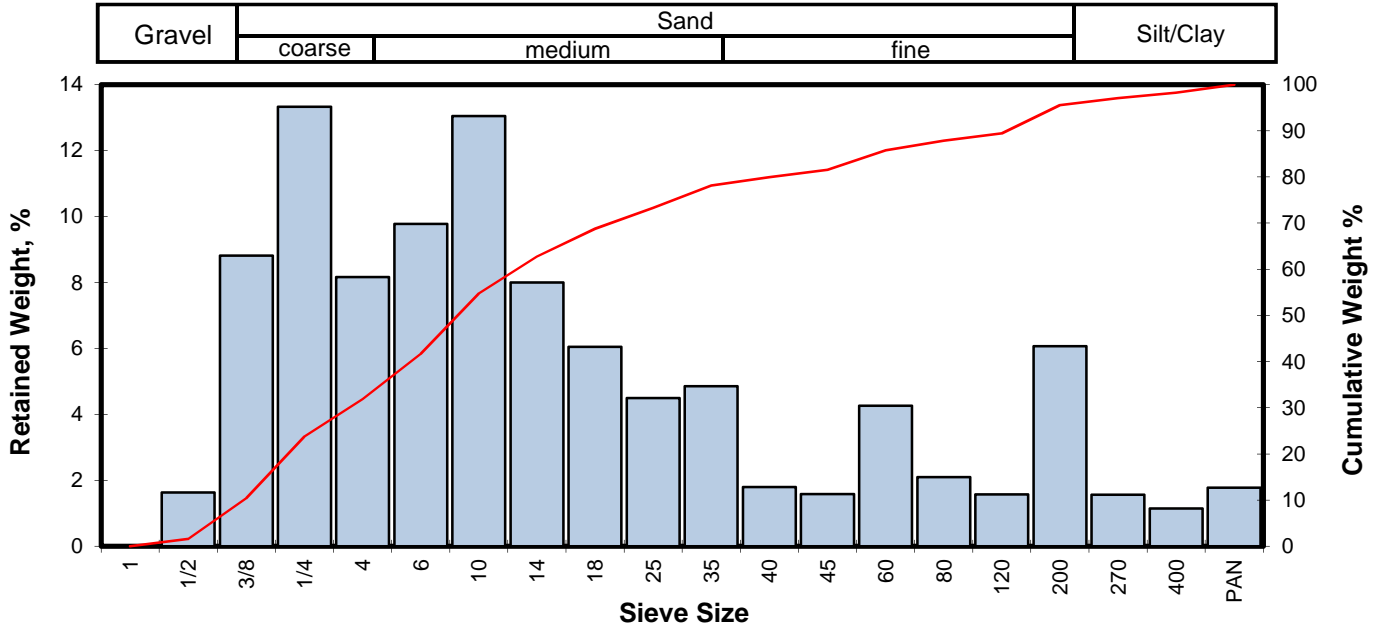
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.88	0.0726	1.845
10	-0.44	0.0533	1.354
16	-0.10	0.0422	1.072
25	0.30	0.0319	0.810
40	1.01	0.0196	0.498
50	1.35	0.0155	0.393
60	1.84	0.0110	0.279
75	3.08	0.0046	0.118
84	3.75	0.0029	0.075
90	4.46	0.0018	0.045
95	3.02	0.0049	0.123

Measure	Trask	Inman	Folk-Ward
Median, phi	1.35	1.35	1.35
Median, in.	0.0155	0.0155	0.0155
Median, mm	0.393	0.393	0.393
Mean, phi	1.11	1.82	1.66
Mean, in.	0.0183	0.0111	0.0124
Mean, mm	0.464	0.283	0.316
Sorting	2.622	1.923	1.553
Skewness	0.787	0.247	0.052
Kurtosis	0.265	0.015	0.575
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.19
Coarse Sand	10	3.63
Medium Sand	40	44.11
Fine Sand	200	36.13
Silt/Clay	<200	15.93
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB8 - 8.0-8.5
 Depth, ft: 8.0-8.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	4.75	1.63	1.63
0.3740	9.500	-3.25	3/8	25.70	8.81	10.44
0.2500	6.351	-2.67	1/4	38.87	13.32	23.76
0.1873	4.757	-2.25	4	23.80	8.16	31.92
0.1324	3.364	-1.75	6	28.51	9.77	41.69
0.0787	2.000	-1.00	10	38.07	13.05	54.74
0.0557	1.414	-0.50	14	23.34	8.00	62.74
0.0394	1.000	0.00	18	17.64	6.05	68.79
0.0278	0.707	0.50	25	13.10	4.49	73.28
0.0197	0.500	1.00	35	14.15	4.85	78.13
0.0166	0.420	1.25	40	5.25	1.80	79.93
0.0139	0.354	1.50	45	4.61	1.58	81.51
0.0098	0.250	2.00	60	12.44	4.26	85.77
0.0070	0.177	2.50	80	6.12	2.10	87.87
0.0049	0.125	3.00	120	4.60	1.58	89.45
0.0029	0.074	3.75	200	17.70	6.07	95.52
0.0021	0.053	4.25	270	4.55	1.56	97.08
0.0015	0.037	4.75	400	3.34	1.14	98.22
			PAN	5.19	1.78	100.00
TOTALS				291.73	100.00	100.00

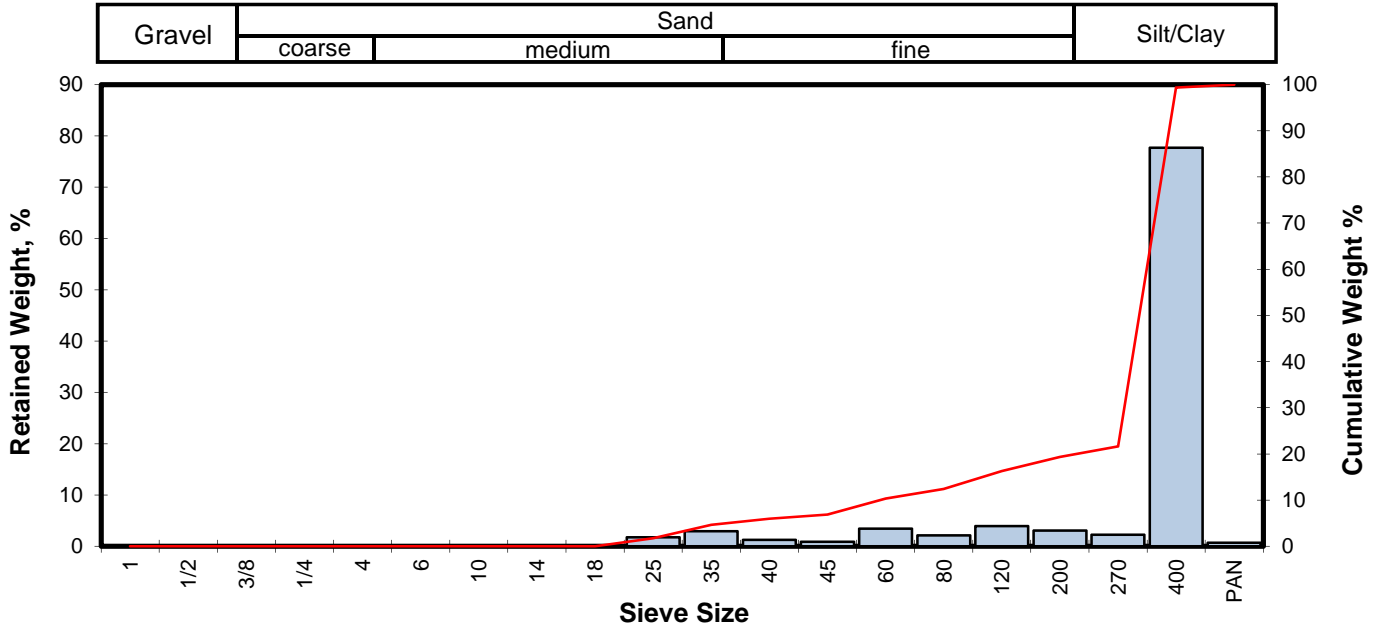
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.49	0.4431	11.255
10	-3.27	0.3792	9.631
16	-3.01	0.3162	8.030
25	-2.60	0.2393	6.078
40	-1.84	0.1406	3.572
50	-1.27	0.0951	2.416
60	-0.67	0.0627	1.593
75	0.68	0.0246	0.625
84	1.79	0.0114	0.289
90	3.07	0.0047	0.119
95	3.69	0.0031	0.078

Measure	Trask	Inman	Folk-Ward
Median, phi	-1.27	-1.27	-1.27
Median, in.	0.0951	0.0951	0.0951
Median, mm	2.416	2.416	2.416
Mean, phi	-1.74	-0.61	-0.83
Mean, in.	0.1320	0.0600	0.0699
Mean, mm	3.352	1.523	1.776
Sorting	3.118	2.399	2.287
Skewness	0.807	0.278	0.330
Kurtosis	0.287	0.496	0.897
Grain Size Description (ASTM-USCS Scale)	Coarse sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	31.92
Coarse Sand	10	22.82
Medium Sand	40	25.19
Fine Sand	200	15.59
Silt/Clay	<200	4.48
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB8 -23.3-23.8
 Depth, ft: 23.3-23.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	7.34	1.76	1.76
0.0197	0.500	1.00	35	12.10	2.91	4.67
0.0166	0.420	1.25	40	5.30	1.27	5.94
0.0139	0.354	1.50	45	3.78	0.91	6.85
0.0098	0.250	2.00	60	14.38	3.45	10.31
0.0070	0.177	2.50	80	8.77	2.11	12.41
0.0049	0.125	3.00	120	16.27	3.91	16.32
0.0029	0.074	3.75	200	12.70	3.05	19.37
0.0021	0.053	4.25	270	9.36	2.25	21.62
0.0015	0.037	4.75	400	323.41	77.70	99.32
			PAN	2.84	0.68	100.00
TOTALS				416.25	100.00	100.00

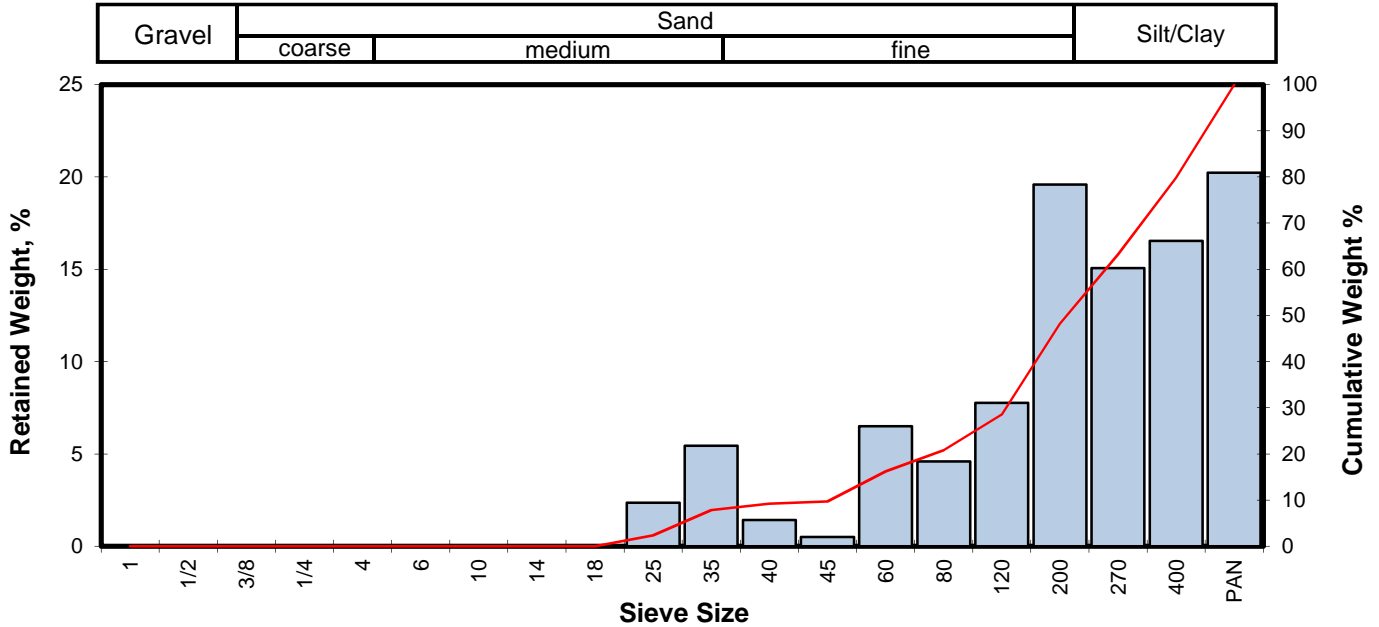
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.06	0.0188	0.478
10	1.96	0.0101	0.258
16	2.96	0.0051	0.129
25	4.27	0.0020	0.052
40	4.37	0.0019	0.048
50	4.43	0.0018	0.046
60	4.50	0.0017	0.044
75	4.59	0.0016	0.041
84	4.65	0.0016	0.040
90	4.69	0.0015	0.039
95	4.72	0.0015	0.038

Measure	Trask	Inman	Folk-Ward
Median, phi	4.43	4.43	4.43
Median, in.	0.0018	0.0018	0.0018
Median, mm	0.046	0.046	0.046
Mean, phi	4.42	3.81	4.01
Mean, in.	0.0018	0.0028	0.0024
Mean, mm	0.047	0.072	0.062
Sorting	1.118	0.846	0.977
Skewness	1.000	-0.741	-0.792
Kurtosis	0.024	1.161	4.658
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.94
Fine Sand	200	13.43
Silt/Clay	<200	80.63
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB8 -36.0-36.5
 Depth, ft: 36.0-36.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	3.66	2.36	2.36
0.0197	0.500	1.00	35	8.45	5.45	7.80
0.0166	0.420	1.25	40	2.21	1.42	9.23
0.0139	0.354	1.50	45	0.79	0.51	9.74
0.0098	0.250	2.00	60	10.08	6.50	16.23
0.0070	0.177	2.50	80	7.13	4.60	20.83
0.0049	0.125	3.00	120	12.05	7.77	28.60
0.0029	0.074	3.75	200	30.38	19.58	48.18
0.0021	0.053	4.25	270	23.38	15.07	63.24
0.0015	0.037	4.75	400	25.65	16.53	79.78
			PAN	31.38	20.22	100.00
TOTALS				155.16	100.00	100.00

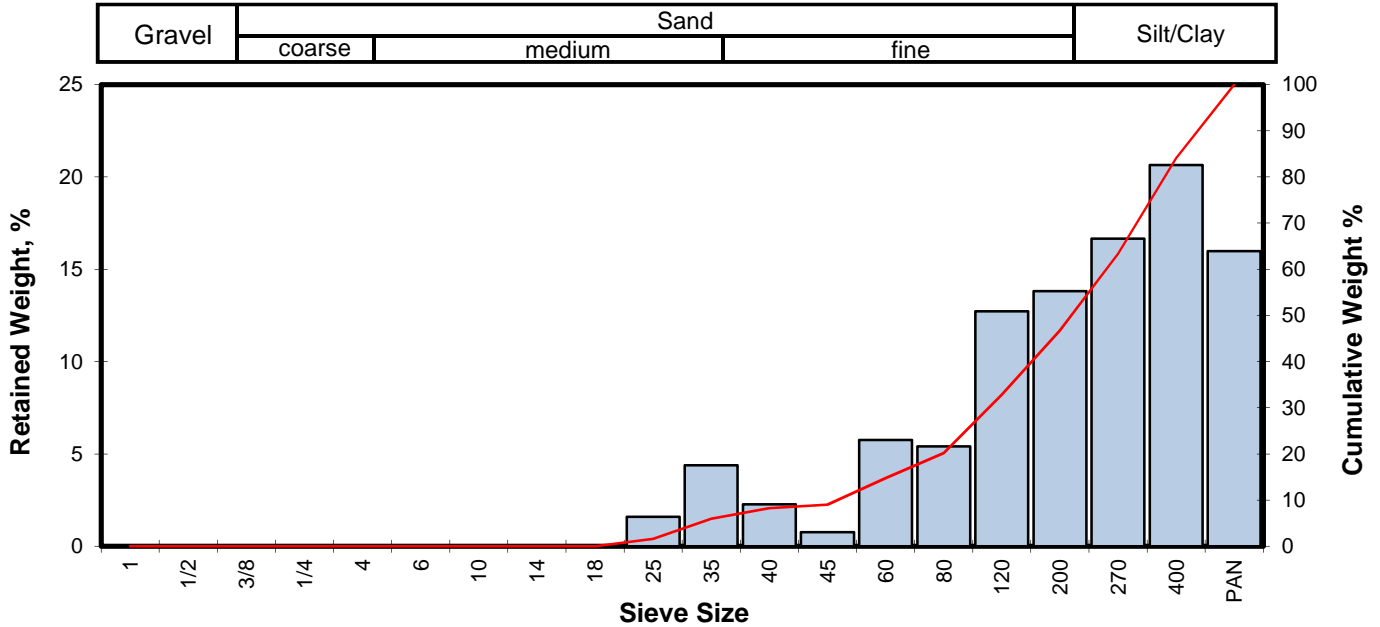
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.74	0.0235	0.598
10	1.52	0.0137	0.349
16	1.98	0.0100	0.253
25	2.77	0.0058	0.147
40	3.44	0.0036	0.092
50	3.81	0.0028	0.071
60	4.14	0.0022	0.057
75	4.61	0.0016	0.041
84	3.76	0.0029	0.074
90	2.35	0.0077	0.196
95	1.17	0.0174	0.443

Measure	Trask	Inman	Folk-Ward
Median, phi	3.81	3.81	3.81
Median, in.	0.0028	0.0028	0.0028
Median, mm	0.071	0.071	0.071
Mean, phi	3.41	2.87	3.18
Mean, in.	0.0037	0.0054	0.0043
Mean, mm	0.094	0.137	0.110
Sorting	1.890	0.888	0.509
Skewness	1.089	-1.059	-7.134
Kurtosis	0.347	-0.757	0.096
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	9.23
Fine Sand	200	38.95
Silt/Clay	<200	51.82
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB8 -50.0-50.5
 Depth, ft: 50.0-50.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	1.97	1.59	1.59
0.0197	0.500	1.00	35	5.44	4.38	5.97
0.0166	0.420	1.25	40	2.82	2.27	8.24
0.0139	0.354	1.50	45	0.95	0.77	9.01
0.0098	0.250	2.00	60	7.15	5.76	14.77
0.0070	0.177	2.50	80	6.71	5.41	20.17
0.0049	0.125	3.00	120	15.79	12.72	32.90
0.0029	0.074	3.75	200	17.14	13.81	46.70
0.0021	0.053	4.25	270	20.68	16.66	63.37
0.0015	0.037	4.75	400	25.63	20.65	84.02
			PAN	19.84	15.98	100.00
TOTALS				124.12	100.00	100.00

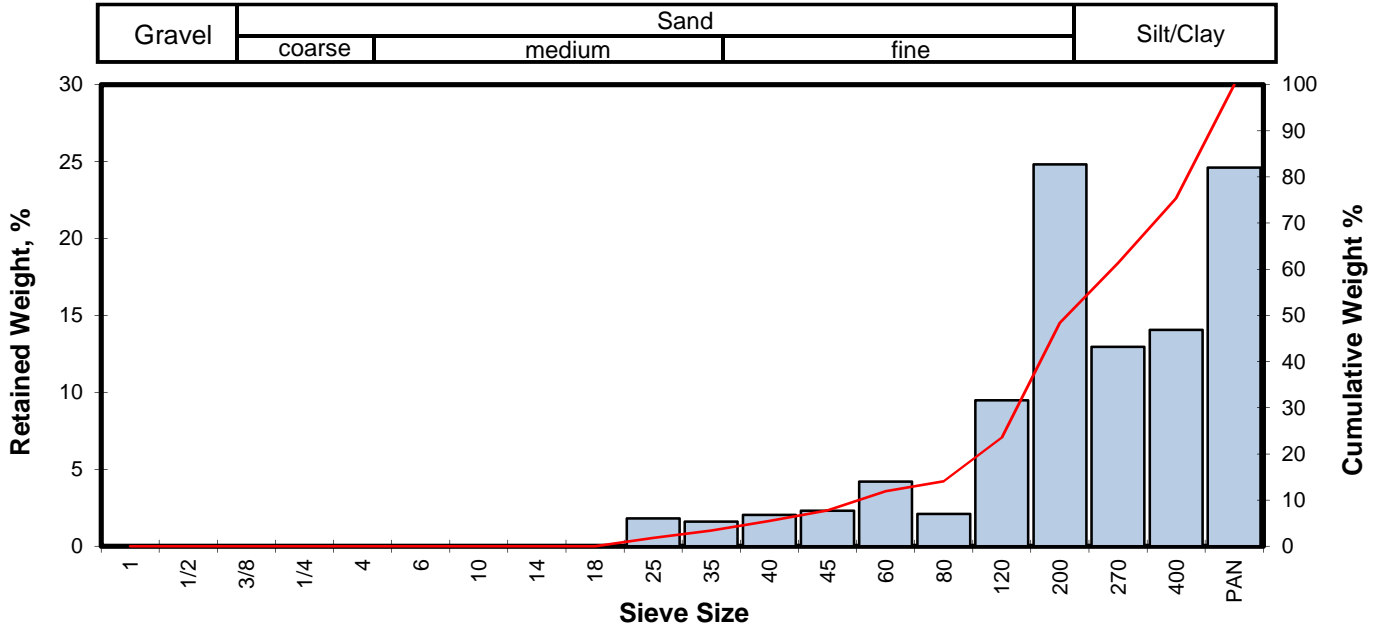
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.89	0.0213	0.540
10	1.59	0.0131	0.333
16	2.11	0.0091	0.231
25	2.69	0.0061	0.155
40	3.39	0.0038	0.096
50	3.85	0.0027	0.069
60	4.15	0.0022	0.056
75	4.53	0.0017	0.043
84	4.75	0.0015	0.037
90	2.97	0.0050	0.127
95	1.49	0.0141	0.357

Measure	Trask	Inman	Folk-Ward
Median, phi	3.85	3.85	3.85
Median, in.	0.0027	0.0027	0.0027
Median, mm	0.069	0.069	0.069
Mean, phi	3.33	3.43	3.57
Mean, in.	0.0039	0.0036	0.0033
Mean, mm	0.099	0.093	0.084
Sorting	1.893	1.318	0.749
Skewness	1.180	-0.317	-4.620
Kurtosis	0.272	-0.774	0.133
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	8.24
Fine Sand	200	38.46
Silt/Clay	<200	53.30
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB8 -64.5-65.0
 Depth, ft: 64.5-65.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.00	0.00	0.00
0.0394	1.000	0.00	18	0.00	0.00	0.00
0.0278	0.707	0.50	25	2.35	1.80	1.80
0.0197	0.500	1.00	35	2.10	1.61	3.41
0.0166	0.420	1.25	40	2.65	2.03	5.45
0.0139	0.354	1.50	45	3.00	2.30	7.75
0.0098	0.250	2.00	60	5.48	4.21	11.96
0.0070	0.177	2.50	80	2.75	2.11	14.07
0.0049	0.125	3.00	120	12.36	9.48	23.55
0.0029	0.074	3.75	200	32.34	24.82	48.37
0.0021	0.053	4.25	270	16.89	12.96	61.33
0.0015	0.037	4.75	400	18.33	14.07	75.39
			PAN	32.07	24.61	100.00
TOTALS				130.32	100.00	100.00

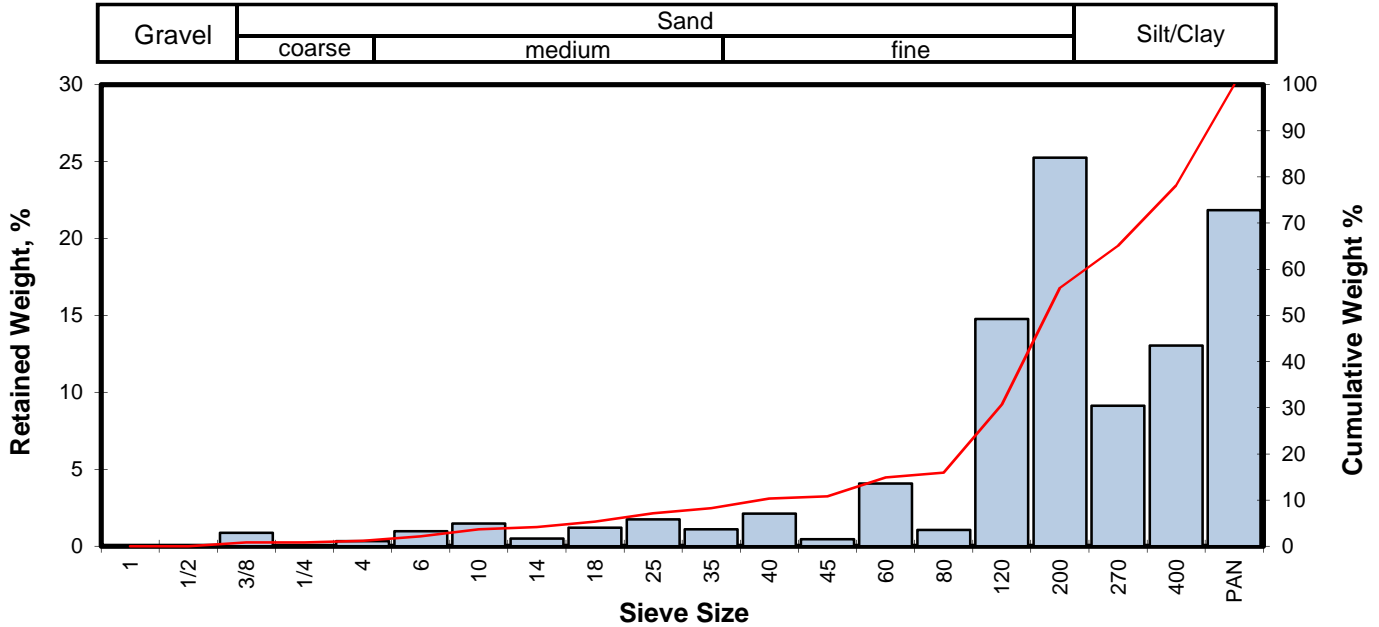
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.19	0.0172	0.437
10	1.77	0.0116	0.294
16	2.60	0.0065	0.165
25	3.04	0.0048	0.121
40	3.50	0.0035	0.089
50	3.81	0.0028	0.071
60	4.20	0.0021	0.054
75	4.74	0.0015	0.038
84	3.09	0.0046	0.118
90	1.93	0.0103	0.262
95	0.97	0.0202	0.512

Measure	Trask	Inman	Folk-Ward
Median, phi	3.81	3.81	3.81
Median, in.	0.0028	0.0028	0.0028
Median, mm	0.071	0.071	0.071
Mean, phi	3.65	2.85	3.17
Mean, in.	0.0031	0.0055	0.0044
Mean, mm	0.079	0.139	0.111
Sorting	1.798	0.243	0.087
Skewness	0.948	-3.980	9.903
Kurtosis	1.337	-1.472	-0.056
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.45
Fine Sand	200	42.92
Silt/Clay	<200	51.63
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB8 -80.3-80.8
 Depth, ft: 80.3-80.8



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	1.38	0.87	0.87
0.2500	6.351	-2.67	1/4	0.00	0.00	0.87
0.1873	4.757	-2.25	4	0.53	0.33	1.20
0.1324	3.364	-1.75	6	1.57	0.99	2.19
0.0787	2.000	-1.00	10	2.35	1.48	3.66
0.0557	1.414	-0.50	14	0.79	0.50	4.16
0.0394	1.000	0.00	18	1.92	1.21	5.37
0.0278	0.707	0.50	25	2.79	1.75	7.12
0.0197	0.500	1.00	35	1.77	1.11	8.23
0.0166	0.420	1.25	40	3.39	2.13	10.36
0.0139	0.354	1.50	45	0.72	0.45	10.82
0.0098	0.250	2.00	60	6.50	4.08	14.90
0.0070	0.177	2.50	80	1.69	1.06	15.96
0.0049	0.125	3.00	120	23.50	14.77	30.73
0.0029	0.074	3.75	200	40.18	25.25	55.98
0.0021	0.053	4.25	270	14.53	9.13	65.11
0.0015	0.037	4.75	400	20.76	13.05	78.16
			PAN	34.76	21.84	100.00
TOTALS				159.13	100.00	100.00

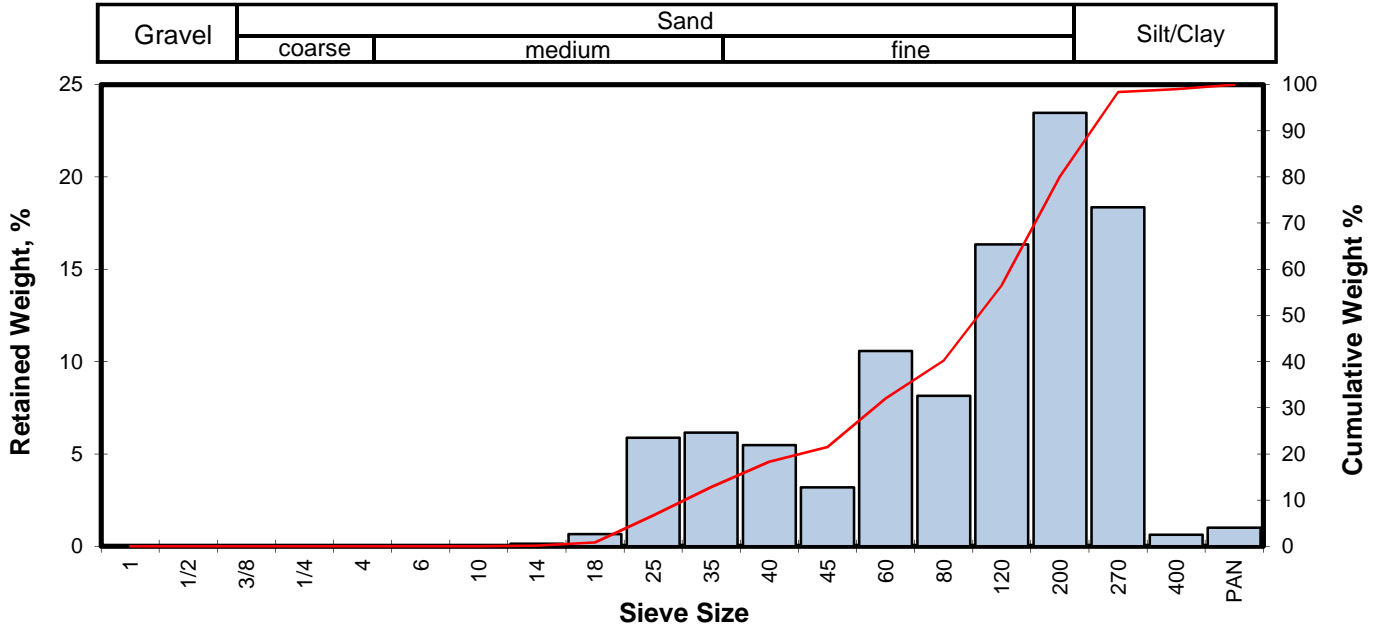
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.15	0.0437	1.111
10	1.21	0.0170	0.433
16	2.50	0.0070	0.177
25	2.81	0.0056	0.143
40	3.28	0.0041	0.103
50	3.57	0.0033	0.084
60	3.97	0.0025	0.064
75	4.63	0.0016	0.040
84	3.48	0.0035	0.090
90	2.17	0.0087	0.222
95	1.09	0.0185	0.471

Measure	Trask	Inman	Folk-Ward
Median, phi	3.57	3.57	3.57
Median, in.	0.0033	0.0033	0.0033
Median, mm	0.084	0.084	0.084
Mean, phi	3.45	2.99	3.18
Mean, in.	0.0036	0.0050	0.0043
Mean, mm	0.092	0.126	0.110
Sorting	1.881	0.489	0.432
Skewness	0.904	-1.190	-3.101
Kurtosis	0.242	0.267	0.279
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	1.20
Coarse Sand	10	2.46
Medium Sand	40	6.70
Fine Sand	200	45.62
Silt/Clay	<200	44.02
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB8 -88.3-89.5
 Depth, ft: 88.3-89.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.20	0.15	0.15
0.0394	1.000	0.00	18	0.89	0.66	0.81
0.0278	0.707	0.50	25	7.93	5.87	6.68
0.0197	0.500	1.00	35	8.30	6.15	12.83
0.0166	0.420	1.25	40	7.39	5.47	18.30
0.0139	0.354	1.50	45	4.30	3.18	21.48
0.0098	0.250	2.00	60	14.27	10.57	32.05
0.0070	0.177	2.50	80	11.01	8.15	40.20
0.0049	0.125	3.00	120	22.07	16.34	56.55
0.0029	0.074	3.75	200	31.68	23.46	80.01
0.0021	0.053	4.25	270	24.79	18.36	98.36
0.0015	0.037	4.75	400	0.84	0.62	98.99
			PAN	1.37	1.01	100.00
TOTALS				135.04	100.00	100.00

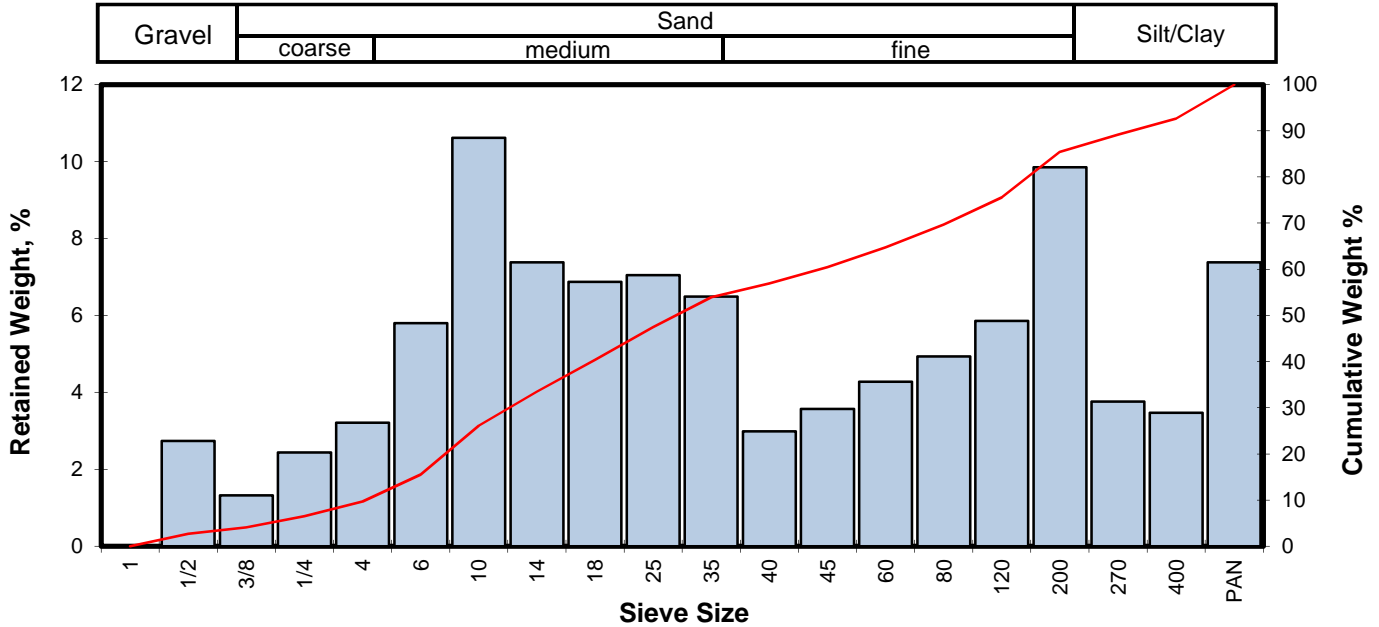
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.36	0.0307	0.781
10	0.77	0.0231	0.586
16	1.15	0.0178	0.452
25	1.67	0.0124	0.315
40	2.49	0.0070	0.178
50	2.80	0.0057	0.144
60	3.11	0.0046	0.116
75	3.59	0.0033	0.083
84	3.86	0.0027	0.069
90	4.02	0.0024	0.062
95	4.16	0.0022	0.056

Measure	Trask	Inman	Folk-Ward
Median, phi	2.80	2.80	2.80
Median, in.	0.0057	0.0057	0.0057
Median, mm	0.144	0.144	0.144
Mean, phi	2.33	2.50	2.60
Mean, in.	0.0078	0.0070	0.0065
Mean, mm	0.199	0.177	0.165
Sorting	1.948	1.357	1.254
Skewness	1.126	-0.219	-0.252
Kurtosis	0.221	0.401	0.810
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	18.30
Fine Sand	200	61.71
Silt/Clay	<200	19.99
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB9 -14.5-15.0
 Depth, ft: 14.5-15.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	9.14	2.74	2.74
0.3740	9.500	-3.25	3/8	4.41	1.32	4.06
0.2500	6.351	-2.67	1/4	8.14	2.44	6.50
0.1873	4.757	-2.25	4	10.70	3.21	9.71
0.1324	3.364	-1.75	6	19.34	5.80	15.51
0.0787	2.000	-1.00	10	35.41	10.62	26.13
0.0557	1.414	-0.50	14	24.60	7.38	33.50
0.0394	1.000	0.00	18	22.93	6.88	40.38
0.0278	0.707	0.50	25	23.50	7.05	47.42
0.0197	0.500	1.00	35	21.65	6.49	53.92
0.0166	0.420	1.25	40	9.95	2.98	56.90
0.0139	0.354	1.50	45	11.91	3.57	60.47
0.0098	0.250	2.00	60	14.27	4.28	64.75
0.0070	0.177	2.50	80	16.46	4.94	69.68
0.0049	0.125	3.00	120	19.53	5.86	75.54
0.0029	0.074	3.75	200	32.85	9.85	85.39
0.0021	0.053	4.25	270	12.53	3.76	89.15
0.0015	0.037	4.75	400	11.58	3.47	92.62
			PAN	24.62	7.38	100.00
TOTALS				333.52	100.00	100.00

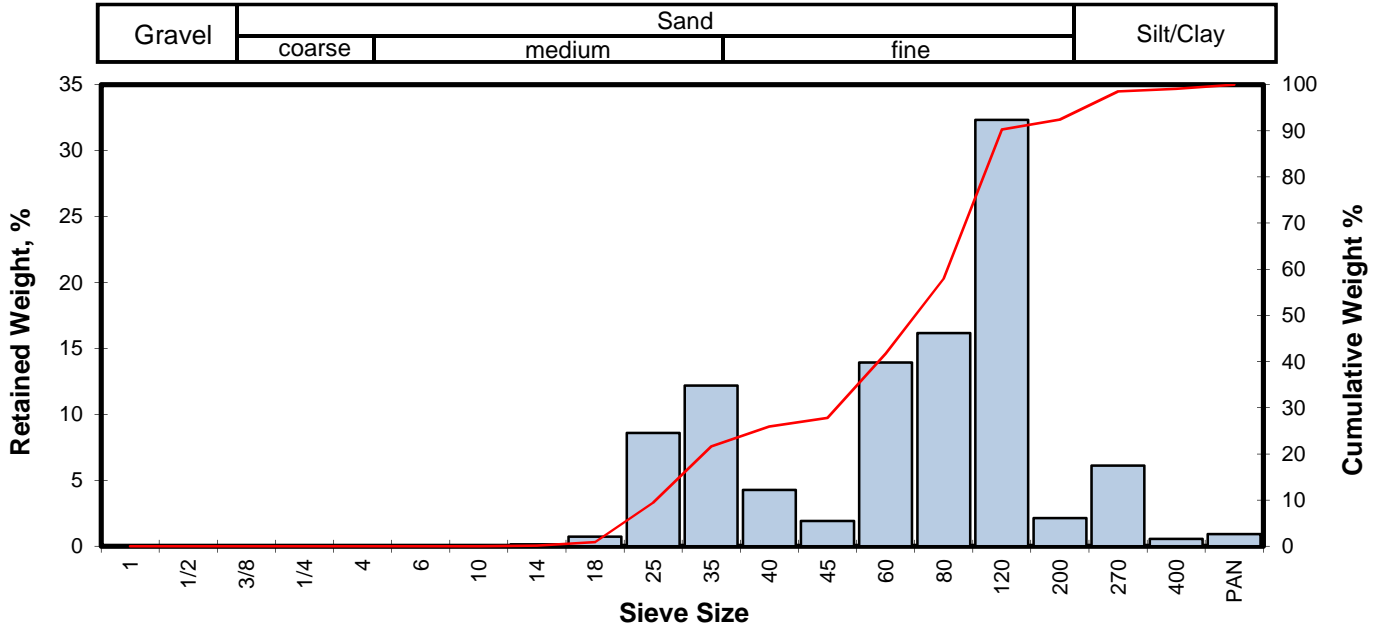
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-3.02	0.3204	8.139
10	-2.23	0.1841	4.676
16	-1.72	0.1293	3.284
25	-1.08	0.0832	2.114
40	-0.03	0.0401	1.019
50	0.70	0.0243	0.616
60	1.47	0.0142	0.362
75	2.95	0.0051	0.129
84	3.64	0.0031	0.080
90	4.37	0.0019	0.048
95	3.22	0.0042	0.108

Measure	Trask	Inman	Folk-Ward
Median, phi	0.70	0.70	0.70
Median, in.	0.0243	0.0243	0.0243
Median, mm	0.616	0.616	0.616
Mean, phi	-0.17	0.96	0.88
Mean, in.	0.0441	0.0202	0.0215
Mean, mm	1.121	0.512	0.545
Sorting	4.047	2.680	2.286
Skewness	0.847	0.099	-0.047
Kurtosis	0.214	0.165	0.634
Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	9.71
Coarse Sand	10	16.42
Medium Sand	40	30.77
Fine Sand	200	28.49
Silt/Clay	<200	14.61
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB9 -21.5-22.0
 Depth, ft: 21.5-22.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.20	0.14	0.14
0.0394	1.000	0.00	18	1.02	0.73	0.88
0.0278	0.707	0.50	25	11.94	8.58	9.46
0.0197	0.500	1.00	35	16.93	12.17	21.63
0.0166	0.420	1.25	40	5.95	4.28	25.91
0.0139	0.354	1.50	45	2.68	1.93	27.84
0.0098	0.250	2.00	60	19.38	13.93	41.77
0.0070	0.177	2.50	80	22.49	16.17	57.94
0.0049	0.125	3.00	120	44.95	32.32	90.26
0.0029	0.074	3.75	200	2.96	2.13	92.39
0.0021	0.053	4.25	270	8.51	6.12	98.50
0.0015	0.037	4.75	400	0.79	0.57	99.07
			PAN	1.29	0.93	100.00
TOTALS				139.09	100.00	100.00

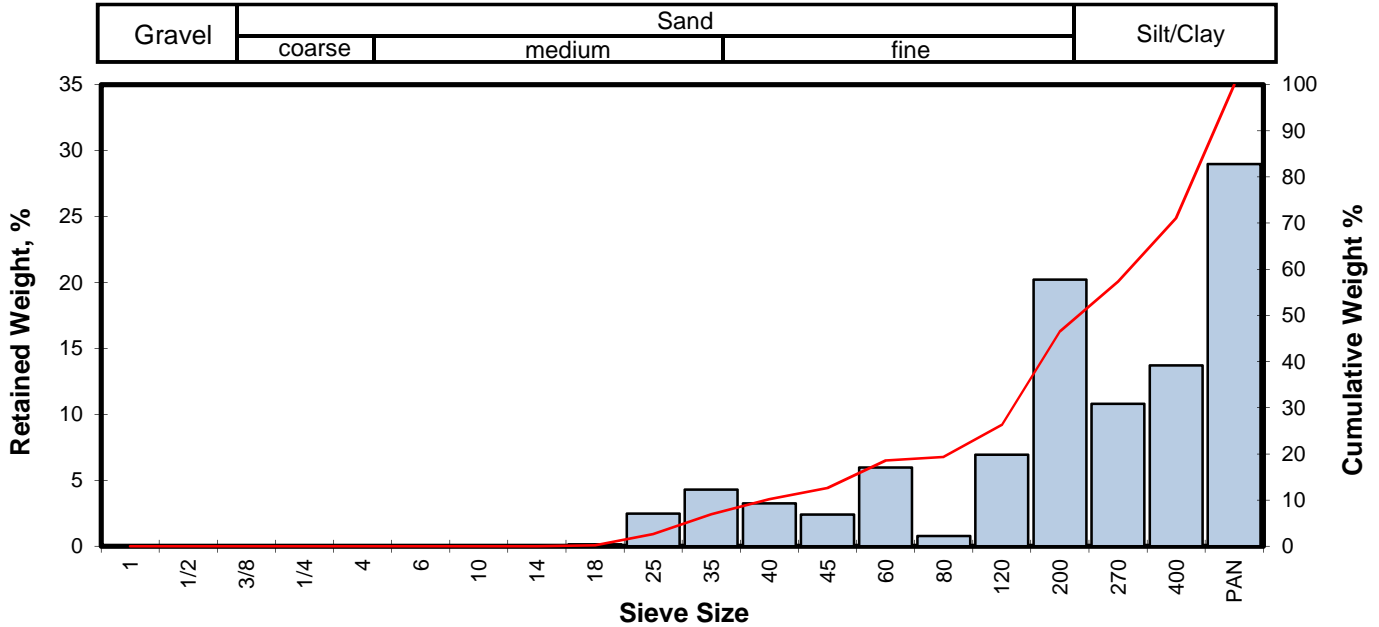
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.24	0.0333	0.847
10	0.52	0.0274	0.696
16	0.77	0.0231	0.587
25	1.20	0.0172	0.436
40	1.94	0.0103	0.261
50	2.25	0.0083	0.210
60	2.53	0.0068	0.173
75	2.76	0.0058	0.147
84	2.90	0.0053	0.134
90	3.00	0.0049	0.125
95	3.96	0.0025	0.064

Measure	Trask	Inman	Folk-Ward
Median, phi	2.25	2.25	2.25
Median, in.	0.0083	0.0083	0.0083
Median, mm	0.210	0.210	0.210
Mean, phi	1.78	1.84	1.98
Mean, in.	0.0115	0.0110	0.0100
Mean, mm	0.292	0.280	0.254
Sorting	1.721	1.067	1.098
Skewness	1.209	-0.392	-0.237
Kurtosis	0.253	0.744	0.974
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	25.91
Fine Sand	200	66.47
Silt/Clay	<200	7.61
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB9 -31.3-32.0
 Depth, ft: 31.3-32.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.03	0.03	0.03
0.0394	1.000	0.00	18	0.18	0.16	0.19
0.0278	0.707	0.50	25	2.80	2.47	2.66
0.0197	0.500	1.00	35	4.86	4.29	6.95
0.0166	0.420	1.25	40	3.69	3.26	10.21
0.0139	0.354	1.50	45	2.72	2.40	12.61
0.0098	0.250	2.00	60	6.76	5.97	18.58
0.0070	0.177	2.50	80	0.89	0.79	19.37
0.0049	0.125	3.00	120	7.86	6.94	26.31
0.0029	0.074	3.75	200	22.89	20.21	46.52
0.0021	0.053	4.25	270	12.24	10.81	57.33
0.0015	0.037	4.75	400	15.52	13.71	71.03
			PAN	32.80	28.97	100.00
TOTALS				113.24	100.00	100.00

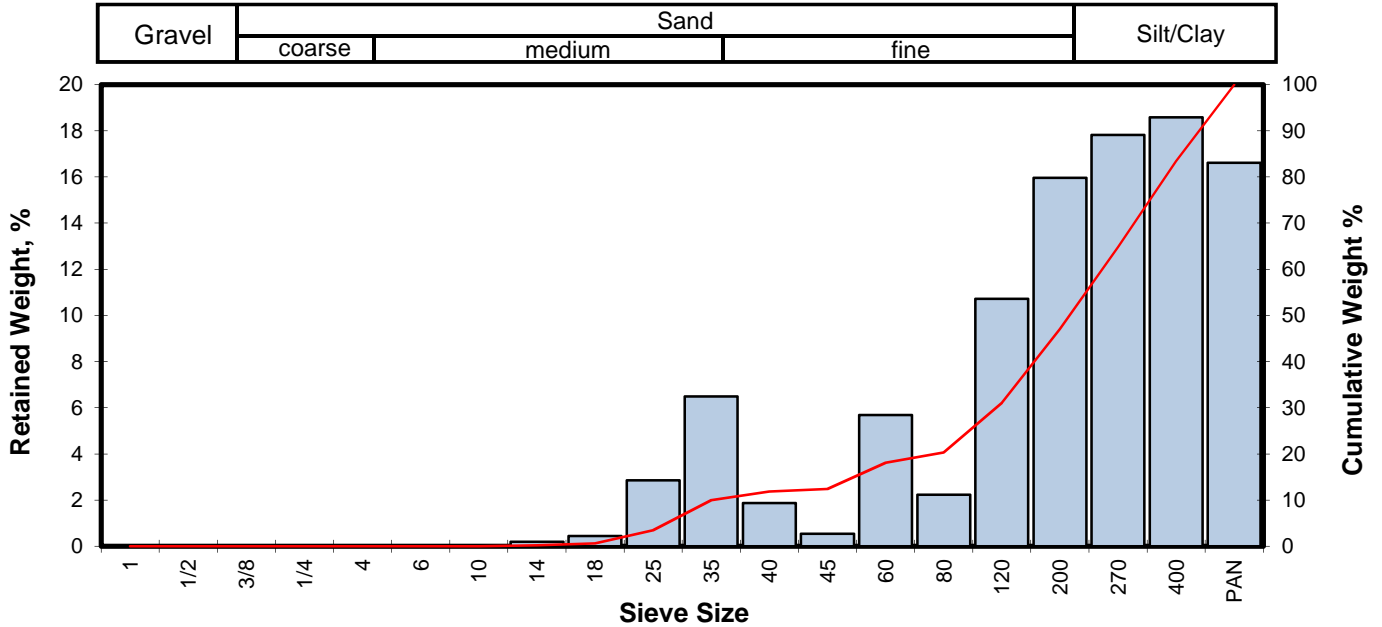
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.77	0.0230	0.585
10	1.23	0.0167	0.425
16	1.78	0.0114	0.290
25	2.91	0.0053	0.133
40	3.51	0.0035	0.088
50	3.91	0.0026	0.066
60	4.35	0.0019	0.049
75	4.10	0.0023	0.058
84	2.62	0.0064	0.162
90	1.64	0.0126	0.321
95	0.82	0.0223	0.566

Measure	Trask	Inman	Folk-Ward
Median, phi	3.91	3.91	3.91
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.066	0.066	0.066
Mean, phi	3.38	2.20	2.77
Mean, in.	0.0038	0.0085	0.0058
Mean, mm	0.096	0.217	0.146
Sorting	1.513	0.420	0.217
Skewness	1.327	-4.065	-68.138
Kurtosis	0.360	-0.944	0.016
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	10.21
Fine Sand	200	36.31
Silt/Clay	<200	53.48
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB9 -40.5-41.0
 Depth, ft: 40.5-41.0



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.28	0.20	0.20
0.0394	1.000	0.00	18	0.62	0.44	0.64
0.0278	0.707	0.50	25	4.03	2.86	3.50
0.0197	0.500	1.00	35	9.15	6.49	9.99
0.0166	0.420	1.25	40	2.63	1.87	11.86
0.0139	0.354	1.50	45	0.76	0.54	12.40
0.0098	0.250	2.00	60	8.01	5.68	18.08
0.0070	0.177	2.50	80	3.15	2.24	20.32
0.0049	0.125	3.00	120	15.11	10.72	31.04
0.0029	0.074	3.75	200	22.48	15.95	47.00
0.0021	0.053	4.25	270	25.10	17.81	64.81
0.0015	0.037	4.75	400	26.18	18.58	83.39
			PAN	23.40	16.61	100.00
TOTALS				140.90	100.00	100.00

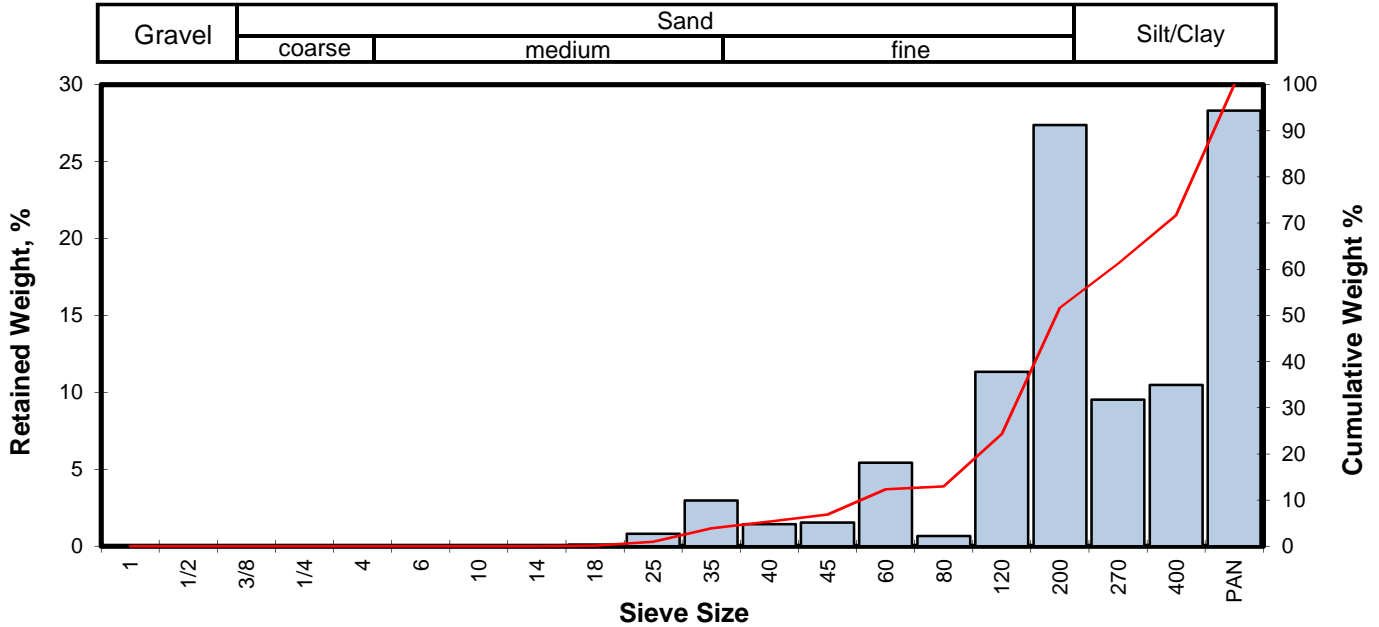
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.62	0.0257	0.653
10	1.00	0.0197	0.500
16	1.82	0.0112	0.284
25	2.72	0.0060	0.152
40	3.42	0.0037	0.093
50	3.83	0.0028	0.070
60	4.11	0.0023	0.058
75	4.52	0.0017	0.043
84	4.58	0.0017	0.042
90	2.86	0.0054	0.138
95	1.43	0.0146	0.371

Measure	Trask	Inman	Folk-Ward
Median, phi	3.83	3.83	3.83
Median, in.	0.0028	0.0028	0.0028
Median, mm	0.070	0.070	0.070
Mean, phi	3.36	3.20	3.41
Mean, in.	0.0038	0.0043	0.0037
Mean, mm	0.098	0.109	0.094
Sorting	1.870	1.380	0.813
Skewness	1.159	-0.462	-3.683
Kurtosis	0.150	-0.705	0.185
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	11.86
Fine Sand	200	35.14
Silt/Clay	<200	53.00
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB9 -55.0-55.5
 Depth, ft: 55.0-55.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.03	0.02	0.02
0.0394	1.000	0.00	18	0.14	0.11	0.13
0.0278	0.707	0.50	25	1.06	0.81	0.94
0.0197	0.500	1.00	35	3.87	2.97	3.92
0.0166	0.420	1.25	40	1.86	1.43	5.35
0.0139	0.354	1.50	45	2.00	1.54	6.88
0.0098	0.250	2.00	60	7.07	5.43	12.31
0.0070	0.177	2.50	80	0.88	0.68	12.99
0.0049	0.125	3.00	120	14.75	11.33	24.31
0.0029	0.074	3.75	200	35.64	27.37	51.69
0.0021	0.053	4.25	270	12.40	9.52	61.21
0.0015	0.037	4.75	400	13.64	10.48	71.68
			PAN	36.87	28.32	100.00
TOTALS				130.21	100.00	100.00

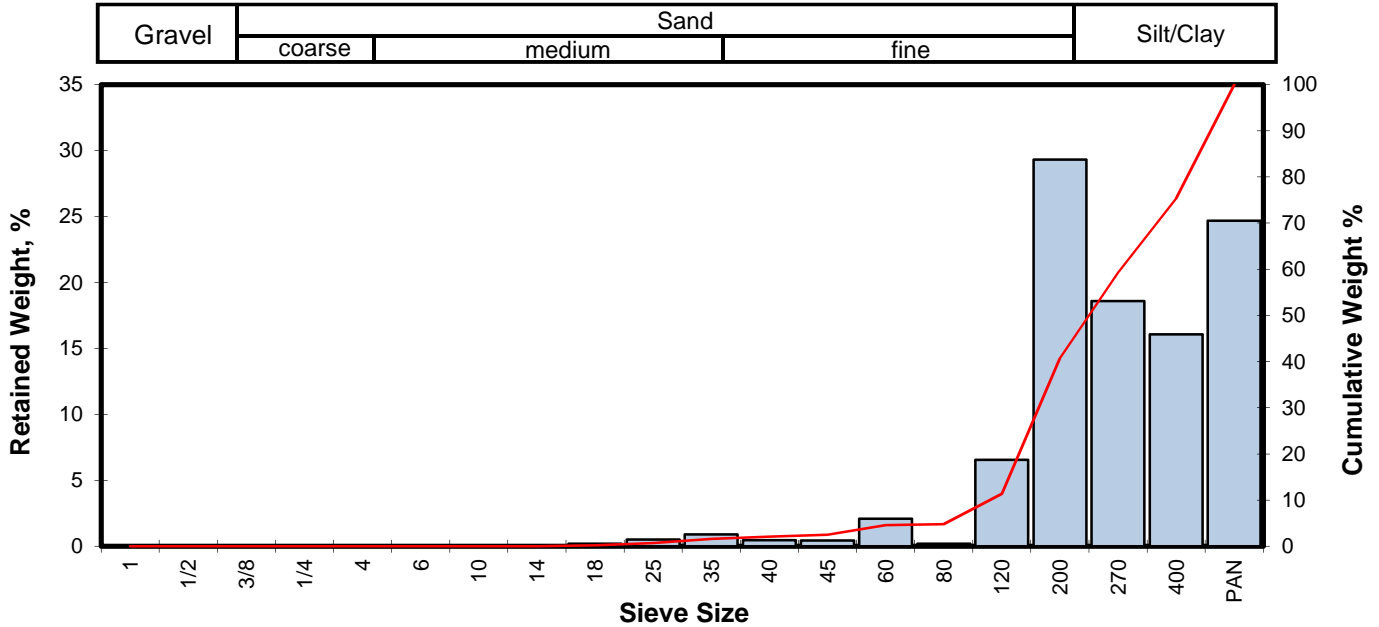
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	1.19	0.0173	0.438
10	1.79	0.0114	0.290
16	2.63	0.0063	0.161
25	3.02	0.0049	0.123
40	3.43	0.0037	0.093
50	3.70	0.0030	0.077
60	4.19	0.0022	0.055
75	4.19	0.0022	0.055
84	2.68	0.0061	0.156
90	1.68	0.0123	0.313
95	0.84	0.0220	0.559

Measure	Trask	Inman	Folk-Ward
Median, phi	3.70	3.70	3.70
Median, in.	0.0030	0.0030	0.0030
Median, mm	0.077	0.077	0.077
Mean, phi	3.49	2.66	3.01
Mean, in.	0.0035	0.0062	0.0049
Mean, mm	0.089	0.158	0.124
Sorting	1.503	0.026	-0.040
Skewness	1.070	-40.984	-12.825
Kurtosis	-1.502	-7.878	-0.122
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	5.35
Fine Sand	200	46.34
Silt/Clay	<200	48.31
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB9 -67.0-67.5
 Depth, ft: 67.0-67.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.04	0.03	0.03
0.0394	1.000	0.00	18	0.28	0.20	0.22
0.0278	0.707	0.50	25	0.72	0.50	0.73
0.0197	0.500	1.00	35	1.29	0.90	1.63
0.0166	0.420	1.25	40	0.67	0.47	2.10
0.0139	0.354	1.50	45	0.61	0.43	2.53
0.0098	0.250	2.00	60	2.97	2.08	4.61
0.0070	0.177	2.50	80	0.27	0.19	4.80
0.0049	0.125	3.00	120	9.34	6.55	11.35
0.0029	0.074	3.75	200	41.82	29.32	40.67
0.0021	0.053	4.25	270	26.51	18.59	59.26
0.0015	0.037	4.75	400	22.91	16.06	75.33
			PAN	35.19	24.67	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	2.52	0.0069	0.175
10	2.90	0.0053	0.134
16	3.12	0.0045	0.115
25	3.35	0.0039	0.098
40	3.73	0.0030	0.075
50	4.00	0.0025	0.062
60	4.27	0.0020	0.052
75	4.74	0.0015	0.037
84	3.08	0.0047	0.118
90	1.93	0.0104	0.263
95	0.96	0.0202	0.513

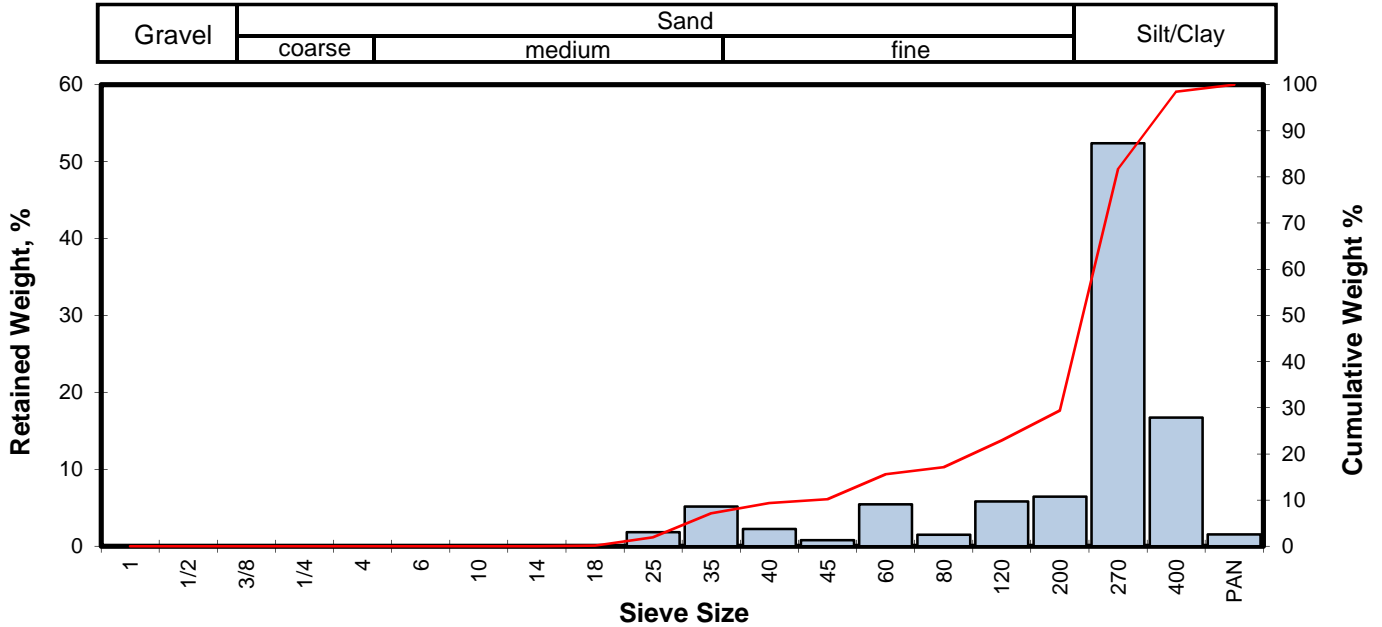
Measure	Trask	Inman	Folk-Ward
Median, phi	4.00	4.00	4.00
Median, in.	0.0025	0.0025	0.0025
Median, mm	0.062	0.062	0.062
Mean, phi	3.88	3.10	3.40
Mean, in.	0.0027	0.0046	0.0037
Mean, mm	0.068	0.117	0.095
Sorting	1.619	-0.019	-0.245
Skewness	0.970	46.559	24.736
Kurtosis	-0.235	39.098	-0.457
Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	2.10
Fine Sand	200	38.57
Silt/Clay	<200	59.33
TOTALS		100

TOTALS	142.62	100.00	100.00
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Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB9 -79.5-80.2
 Depth, ft: 79.5-80.2



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.07	0.03	0.03
0.0394	1.000	0.00	18	0.27	0.12	0.15
0.0278	0.707	0.50	25	4.19	1.81	1.96
0.0197	0.500	1.00	35	11.96	5.18	7.14
0.0166	0.420	1.25	40	5.15	2.23	9.37
0.0139	0.354	1.50	45	1.85	0.80	10.17
0.0098	0.250	2.00	60	12.61	5.46	15.63
0.0070	0.177	2.50	80	3.44	1.49	17.12
0.0049	0.125	3.00	120	13.42	5.81	22.94
0.0029	0.074	3.75	200	14.88	6.44	29.38
0.0021	0.053	4.25	270	120.88	52.35	81.73
0.0015	0.037	4.75	400	38.62	16.73	98.46
			PAN	3.56	1.54	100.00
TOTALS				230.90	100.00	100.00

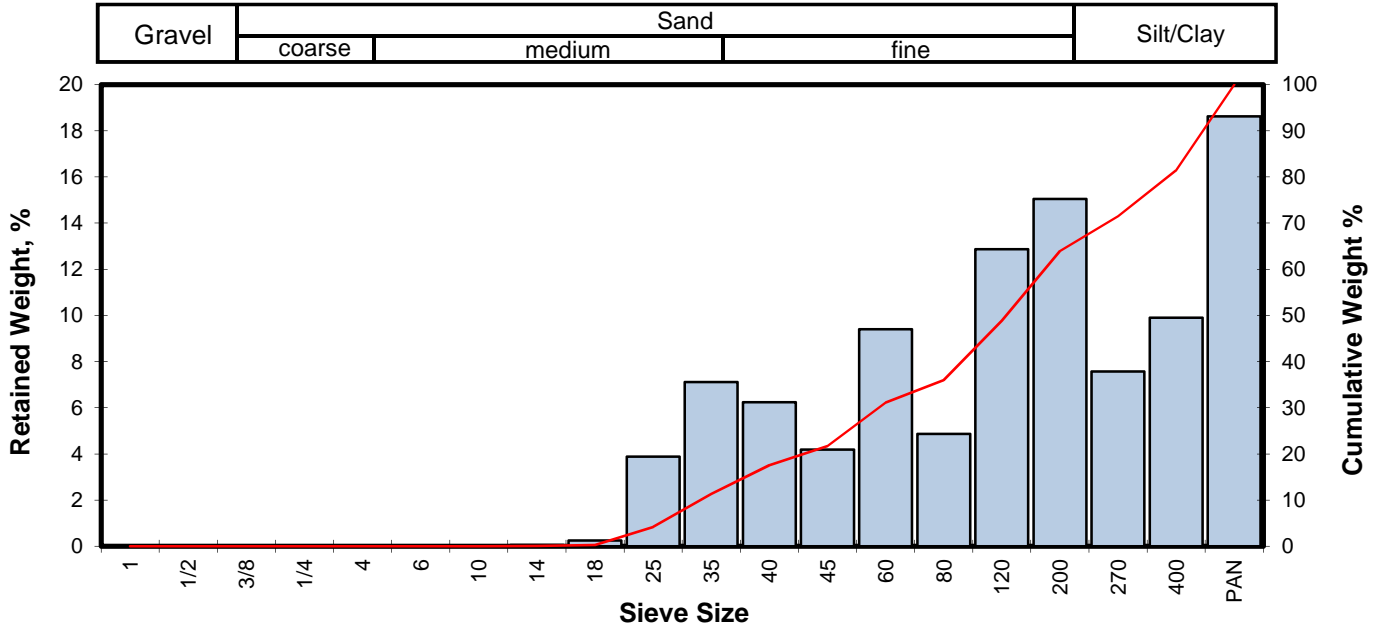
Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.79	0.0227	0.577
10	1.45	0.0145	0.367
16	2.12	0.0090	0.230
25	3.24	0.0042	0.106
40	3.85	0.0027	0.069
50	3.95	0.0026	0.065
60	4.04	0.0024	0.061
75	4.19	0.0022	0.055
84	4.32	0.0020	0.050
90	4.50	0.0017	0.044
95	4.65	0.0016	0.040

Measure	Trask	Inman	Folk-Ward
Median, phi	3.95	3.95	3.95
Median, in.	0.0026	0.0026	0.0026
Median, mm	0.065	0.065	0.065
Mean, phi	3.64	3.22	3.46
Mean, in.	0.0032	0.0042	0.0036
Mean, mm	0.080	0.107	0.091
Sorting	1.388	1.098	1.133
Skewness	1.176	-0.662	-0.649
Kurtosis	0.079	0.755	1.670
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	9.37
Fine Sand	200	20.01
Silt/Clay	<200	70.62
Total		100

Client: Ramboll Environ
 Project: NERT
 Project No: 2141400C MO3B

PTS File No: 47398
 Sample ID: PT-PC DB9 -87.0-87.6
 Depth, ft: 87.0-87.6



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0557	1.414	-0.50	14	0.08	0.06	0.06
0.0394	1.000	0.00	18	0.32	0.25	0.31
0.0278	0.707	0.50	25	4.99	3.88	4.19
0.0197	0.500	1.00	35	9.16	7.12	11.31
0.0166	0.420	1.25	40	8.02	6.23	17.55
0.0139	0.354	1.50	45	5.38	4.18	21.73
0.0098	0.250	2.00	60	12.09	9.40	31.13
0.0070	0.177	2.50	80	6.27	4.87	36.00
0.0049	0.125	3.00	120	16.55	12.87	48.87
0.0029	0.074	3.75	200	19.35	15.04	63.91
0.0021	0.053	4.25	270	9.74	7.57	71.48
0.0015	0.037	4.75	400	12.73	9.90	81.37
			PAN	23.96	18.63	100.00
TOTALS				128.64	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.56	0.0268	0.680
10	0.91	0.0210	0.533
16	1.19	0.0173	0.439
25	1.67	0.0123	0.313
40	2.66	0.0062	0.159
50	3.06	0.0047	0.120
60	3.56	0.0033	0.085
75	4.43	0.0018	0.046
84	4.08	0.0023	0.059
90	2.55	0.0067	0.171
95	1.28	0.0163	0.413

Measure	Trask	Inman	Folk-Ward
Median, phi	3.06	3.06	3.06
Median, in.	0.0047	0.0047	0.0047
Median, mm	0.120	0.120	0.120
Mean, phi	2.47	2.63	2.78
Mean, in.	0.0071	0.0063	0.0058
Mean, mm	0.180	0.161	0.146
Sorting	2.597	1.446	0.832
Skewness	1.004	-0.292	-3.126
Kurtosis	0.368	-0.752	0.107
Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	17.55
Fine Sand	200	46.36
Silt/Clay	<200	36.09
Total		100

PTS File No: 47398
 Client: Ramboll Environ
 Report Date: 01/05/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 169 0004969-018 Task (M03D)

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-PC162-11.0-11.5	11.0 - 11.5	20171220	25.0	NON-PLASTIC		ML	SM silty sand	-
PT-PC162-15.0-15.5	15.0 - 15.5	20171220	27.5	NON-PLASTIC		ML	SM silty sand	-
PT-PC162-23.5-24.0	23.5 - 24.0	20171220	17.0	NON-PLASTIC		ML	SP-SM poorly graded sand with silt	-
PT-PC162-35.0-35.5	35.0 - 35.5	20171220	32.6	21.8	10.8	CL	SC clayey sand	-
PT-PC163-12.5-13.0	12.5 - 13.0	20171220	18.0	NON-PLASTIC		ML	SM silty sand	-
PT-PC164-12.5-13.0	12.5 - 13.0						SP poorly graded sand	-
PT-PC164-32.0-32.5	32.0 - 32.5	20171220	63.8	27.2	36.6	CH	CH sandy fat clay	-
PT-PC164-36.0-36.8	36.0 - 36.8	20171227	50.7	26.4	24.3	CH	CH fat clay with sand	-
PT-PC165-12.0-12.3	12.0 - 12.3	20180104	19.5	NON-PLASTIC		ML	SP poorly graded sand	-
PT-PC165-31.0-31.3	31.0 - 31.3	20180104	16.3	NON-PLASTIC		ML	SM silty sand	-
PT-PC165-36.7-37.0	36.7 - 37.0	20180104	16.0	NON-PLASTIC		ML	SP poorly graded sand with gravel	-
PT-PC166-11.5-11.8	11.5 - 11.8	20180104	17.0	NON-PLASTIC		ML	SP-SM poorly graded sand with silt	-
PT-PC166-22.0-22.3	22.0 - 22.3	20180104	12.0	NON-PLASTIC		ML	SP-SM poorly graded sand with silt	-
PT-PC166-33.7-34.2	33.7 - 34.2	20171227	50.2	15.4	34.8	CH	SC clayey sand	-
PT-PC172-13.5-14.0	13.5 - 14.0	20180104	28.0	NON-PLASTIC		ML	SM silty sand	-
PT-PC172-18.5-19.0	18.5 - 19.0	20180104	31.0	NON-PLASTIC		ML	SP-SM poorly graded sand with silt	-
PT-PC172-23.5-24.0	23.5 - 24.0	20180104	35.8	NON-PLASTIC		ML	SP-SM poorly graded sand with silt	-
PT-PC175-12.7-13.0	12.7 - 13.0	20180104	27.0	NON-PLASTIC		ML	SP-SM poorly graded sand with silt	-
PT-PC175-23.0-23.3	23.0 - 23.3	20180104	29.0	NON-PLASTIC		ML	SM silty sand	-
PT-PC175-32.7-33.0	32.7 - 33.0	20180104	33.3	18.1	15.2	CL	CL sand with lean clay	-
PT-PC175-39.5-39.8	39.5 - 39.8	20180104	30.9	NON-PLASTIC		ML	ML sand and silt	-
PT-PC188-10.5-11.0	10.5 - 11.0	20180104	34.0	NON-PLASTIC		ML	SW-SM well-graded sand with silt	-
PT-PC188-39.5-40.5	39.5 - 40.5	20171228	66.1	32.1	34.0	CH	CH fat clay with sand	-
PT-PC188-56.0-56.7	56.0 - 56.7	20171228	75.7	33.3	42.4	CH	SC clayey sand	-
PT-PC188-66.0-66.7	66.0 - 66.7	20171228	70.8	26.9	43.9	CH	SC clayey sand	-
PT-PC188-75.5-76.3	75.5 - 76.3	20171228	71.2	21.8	49.4	CH	CH sandy fat clay	-

PTS File No: 47398
 Client: Ramboll Environ
 Report Date: 01/05/18

ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

Project Name: NERT
 Project No: 169 0004969-018 Task (M03D)

SAMPLE ID.	DEPTH, ft.	METHODS: ANALYSIS DATE	ASTM D4318			ASTM D4318	ASTM D2487	USDA
			ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
PT-PC188-86.5-87.0	86.5 - 87.0	20171228	81.0	32.2	48.8	CH	CH sandy fat clay	-
PT-PC193-11.0-11.5	11.0 - 11.5	20180104	17.0	NON-PLASTIC		CL	SC clayey sand	-
PT-PC193-14.5-15.5	14.5 - 15.5	20171228	59.1	26.4	32.7	CH	CH sand and fat clay	-
PT-PC193-26.3-27.0	26.3 - 27.0	20171228	61.9	29.7	32.2	CH	SC clayey sand	-
PT-PC193-36.3-37.0	36.3 - 37.0	20171228	41.6	20.9	20.7	CL	SC clayey sand	-
PT-PC193-46.3-47.0	46.3 - 47.0	20171228	64.5	26.0	38.5	CL	SC clayey sand	-
PT-PCDB5-16.0-16.3	16.0 - 16.3	20180104	17.0	NON-PLASTIC		ML	SW well-graded sand	-
PT-PCDB5-46.5-47.0	46.5 - 47.0	20171228	43.4	19.6	23.8	CL	SP poorly graded sand with gravel	-
PT-PCDB5-54.5-55.0	54.5 - 55.0	20171228	42.4	16.6	25.8	CL	SC clayey sand	-
PT-PCDB5-64.0-64.5	64.0 - 64.5	20171229	111.8	25.9	85.9	CH	SC clayey sand	-
PT-PCDB5-75.0-75.5	75.0 - 75.5	20171229	165.0	30.5	134.5	CH	CH fat clay with sand	-
PT-PCDB5-87.0-87.5	87.0 - 87.5	20171229	98.0	29.2	68.8	CH	SC clayey sand	-
PT-PCDB8-8.0-8.5	8.0 - 8.5						SP poorly graded sand with gravel	-
PT-PCDB8-23.3-23.8	23.3 - 23.8	20180102	91.3	38.4	52.9	CH	CH fat clay with sand	-
PT-PCDB8-36.0-36.5	36.0 - 36.5	20180102	81.0	26.4	54.6	CH	CH fat clay with sand	-
PT-PCDB8-50.0-50.5	50.0 - 50.5	20180102	76.8	36.4	40.4	MH	MH sandy elastic silt	-
PT-PCDB8-64.5-65.0	64.5 - 65.0	20180102	72.0	26.6	45.4	CH	CH sandy fat clay	-
PT-PCDB8-80.3-80.8	80.3 - 80.8	20180102	37.2	19.2	18.0	CL	SC clayey sand	-
PT-PCDB8-88.3-89.5	88.3 - 89.5	20180102	55.8	24.2	31.6	CH	SC clayey sand	-
PT-PCDB9-14.5-15.0	14.5 - 15.0	20180103	48.5	22.3	26.2	CL	SC clayey sand	-
PT-PCDB9-21.5-22.0	21.5 - 22.0	20180103	56.0	29.3	26.7	CH	SC clayey sand	-
PT-PCDB9-31.3-32.0	31.3 - 32.0	20180103	78.8	34.5	44.3	CH	CH sandy fat clay	-
PT-PCDB9-40.5-41.0	40.5 - 41.0	20180103	66.4	31.8	34.6	CH	CH sandy fat clay	-
PT-PCDB9-55.0-55.5	55.0 - 55.5	20180103	53.3	26.0	27.3	CH	SC clayey sand	-
PT-PCDB9-67.0-67.5	67.0 - 67.5	20180103	31.0	NON-PLASTIC		ML	ML silt with sand	-
PT-PCDB9-79.5-80.2	79.5 - 80.2	20180104	79.3	32.9	46.4	CH	CH fat clay with sand	-
PT-PCDB9-87.0-87.6	87.0 - 87.6	20180104	75.9	34.9	41.0	CH	SC clayey sand	-

PTS File No: 47398
 Client: Ramboll Environ
 Report Date: 01/02/18

DRY BULK DENSITY OF IN-PLACE SOIL

(Methodology: ASTM D2937)

Project Name: NERT
 Project No: 2141400C MO3B

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	TOTAL SAMPLE VOLUME, cc	MOISTURE CONTENT, % wt	VOLUMETRIC MOISTURE CONTENT, fraction Vb	DRY BULK DENSITY, g/cc
PT-PC164-32.0-32.5	32.0 - 32.5	20171217	143.50	32.2	0.335	1.04
PT-PC164-36.0-36.8	36.0 - 36.8	20171217	143.50	34.9	0.410	1.17
PT-PC166-33.7-34.2	33.7 - 34.2	20171217	143.50	18.4	0.322	1.74
PT-PC188-39.5-40.5	39.5 - 40.5	20171217	143.50	56.8	0.569	1.00
PT-PC188-56.0-56.7	56.0 - 56.7	20171217	143.50	51.8	0.528	1.02
PT-PC188-66.0-66.7	66.0 - 66.7	20171217	143.50	43.7	0.518	1.18
PT-PC188-75.5-76.3	75.5 - 76.3	20171217	143.50	43.9	0.535	1.22
PT-PC188-86.5-87.0	86.5 - 87.0	20171217	143.50	52.4	0.571	1.09
PT-PC193-14.5-15.5	14.5 - 15.5	20171217	143.50	28.6	0.368	1.29
PT-PC193-26.3-27.0	26.3 - 27.0	20171217	143.50	46.0	0.518	1.12
PT-PC193-36.3-37.0	36.3 - 37.0	20171217	143.50	27.5	0.390	1.41
PT-PC193-46.3-47.0	46.3 - 47.0	20171217	143.50	42.6	0.508	1.19
PT-PCDB5-46.5-47.0	46.5 - 47.0	20171217	143.50	20.5	0.300	1.46
PT-PCDB5-54.5-55.0	54.5 - 55.0	20171217	143.50	22.3	0.305	1.36
PT-PCDB5-64.0-64.5	64.0 - 64.5	20171217	143.50	34.2	0.385	1.13
PT-PCDB5-75.0-75.5	75.0 - 75.5	20171217	143.50	25.0	0.317	1.27
PT-PCDB5-87.0-87.5	87.0 - 87.5	20171217	143.50	40.3	0.496	1.23
PT-PCDB8-23.3-23.8	23.3 - 23.8	20171217	143.50	44.8	0.460	1.03
PT-PCDB8-36.0-36.5	36.0 - 36.5	20171217	143.50	44.7	0.497	1.11
PT-PCDB8-50.0-50.5	50.0 - 50.5	20171217	143.50	49.1	0.528	1.07
PT-PCDB8-64.5-65.0	64.5 - 65.0	20171217	143.50	38.9	0.447	1.15
PT-PCDB8-80.3-80.8	80.3 - 80.8	20171217	143.50	30.8	0.424	1.38
PT-PCDB8-88.3-89.5	88.3 - 89.5	20171217	143.50	36.3	0.472	1.30
PT-PCDB9-21.5-22.0	21.5 - 22.0	20171217	143.50	35.2	0.413	1.17
PT-PCDB9-31.3-32.0	31.3 - 32.0	20171217	143.50	47.7	0.525	1.10
PT-PCDB9-40.5-41.0	40.5 - 41.0	20171217	143.50	41.9	0.499	1.19
PT-PCDB9-55.0-55.5	55.0 - 55.5	20171217	143.50	33.8	0.428	1.27
PT-PCDB9-67.0-67.5	67.0 - 67.5	20171217	143.50	21.5	0.304	1.41
PT-PCDB9-79.5-80.2	79.5 - 80.2	20171217	143.50	61.3	0.613	1.00
PT-PCDB9-87.0-87.6	87.0 - 87.6	20171217	143.50	44.7	0.499	1.12

Vb = Bulk Volume

PTS File No: 47398
 Client: Ramboll Environ
 Report Date: 01/04/18

PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

Project Name: NERT
 Project No: 2141400C MO3B

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	METHODS:	Mod. ASTM D425	Mod. ASTM D425
				API RP 40 /	TOTAL POROSITY (2), %Vb	EFFECTIVE POROSITY, %Vb
PT-PC164-32.0-32.5	32.0 - 32.5	V	20171217		58.7	14.7
PT-PC164-36.0-36.8	36.0 - 36.8	V	20171217		55.6	14.1
PT-PC166-33.7-34.2	33.7 - 34.2	V	20171217		36.5	6.2
PT-PC188-39.5-40.5	39.5 - 40.5	V	20171217		60.4	16.0
PT-PC188-56.0-56.7	56.0 - 56.7	V	20171217		65.8	19.3
PT-PC188-66.0-66.7	66.0 - 66.7	V	20171217		57.5	6.1
PT-PC188-75.5-76.3	75.5 - 76.3	V	20171217		50.9	5.9
PT-PC188-86.5-87.0	86.5 - 87.0	V	20171217		55.9	5.3
PT-PC193-14.5-15.5	14.5 - 15.5	V	20171217		55.4	13.7
PT-PC193-26.3-27.0	26.3 - 27.0	V	20171217		52.1	11.0
PT-PC193-36.3-37.0	36.3 - 37.0	V	20171217		47.0	11.3
PT-PC193-46.3-47.0	46.3 - 47.0	V	20171217		57.8	13.5
PT-PCDB5-46.5-47.0	46.5 - 47.0	V	20171217		41.1	7.0
PT-PCDB5-54.5-55.0	54.5 - 55.0	V	20171217		45.3	9.4
PT-PCDB5-64.0-64.5	64.0 - 64.5	V	20171217		55.9	8.1
PT-PCDB5-75.0-75.5	75.0 - 75.5	V	20171217		61.4	7.6
PT-PCDB5-87.0-87.5	87.0 - 87.5	V	20171217		53.8	13.7
PT-PCDB8-23.3-23.8	23.3 - 23.8	V	20171217		65.9	14.2
PT-PCDB8-36.0-36.5	36.0 - 36.5	V	20171217		55.6	9.2
PT-PCDB8-50.0-50.5	50.0 - 50.5	V	20171217		63.2	16.0
PT-PCDB8-64.5-65.0	64.5 - 65.0	V	20171217		55.2	15.4
PT-PCDB8-80.3-80.8	80.3 - 80.8	V	20171217		46.8	11.2
PT-PCDB8-88.3-89.5	88.3 - 89.5	V	20171217		53.4	9.6
PT-PCDB9-21.5-22.0	21.5 - 22.0	V	20171217		55.3	11.6
PT-PCDB9-31.3-32.0	31.3 - 32.0	V	20171217		58.5	10.8
PT-PCDB9-40.5-41.0	40.5 - 41.0	V	20171217		55.7	8.6
PT-PCDB9-55.0-55.5	55.0 - 55.5	V	20171217		54.3	17.5
PT-PCDB9-67.0-67.5	67.0 - 67.5	V	20171217		47.8	25.6
PT-PCDB9-79.5-80.2	79.5 - 80.2	V	20171217		62.5	10.4
PT-PCDB9-87.0-87.6	87.0 - 87.6	V	20171217		57.1	13.2

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Total Porosity = all interconnected pore channels.
 Vb = Bulk Volume, cc; ND = Not Detected

PTS File No: 47398
 Client: Ramboll Environ
 Report Date: 01/05/18

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY

(Methodology: API RP 40; EPA 9100)

Project Name: NERT
 Project No: 2141400C MO3B

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	25 PSI CONFINING STRESS		
				EFFECTIVE PERMEABILITY TO WATER (2,3), millidarcy	HYDRAULIC CONDUCTIVITY (3), cm/s	INTRINSIC PERMEABILITY TO WATER (3), cm ²
PT-PC164-32.0-32.5	32.0 - 32.5	V	20171217	3.21	3.15E-06	3.17E-11
PT-PC164-36.0-36.8	36.0 - 36.8	V	20171217	3.13	3.07E-06	3.09E-11
PT-PC166-33.7-34.2	33.7 - 34.2	V	20171217	0.672	6.64E-07	6.64E-12
PT-PC188-66.0-66.7	66.0 - 66.7	V	20171217	0.296	2.92E-07	2.92E-12
PT-PC188-75.5-76.3	75.5 - 76.3	V	20171217	0.096	9.53E-08	9.50E-13
PT-PC188-86.5-87.0	86.5 - 87.0	V	20171217	0.239	2.37E-07	2.36E-12
PT-PC193-14.5-15.5	14.5 - 15.5	V	20171217	5.41	5.35E-06	5.34E-11
PT-PC193-26.3-27.0	26.3 - 27.0	V	20171217	1.53	1.51E-06	1.51E-11
PT-PCDB5-46.5-47.0	46.5 - 47.0	V	20171217	0.467	4.61E-07	4.61E-12
PT-PCDB5-54.5-55.0	54.5 - 55.0	V	20171217	0.470	4.67E-07	4.64E-12
PT-PCDB5-64.0-64.5	64.0 - 64.5	V	20171217	11.2	1.07E-05	1.11E-10
PT-PCDB5-75.0-75.5	75.0 - 75.5	V	20171217	0.178	1.72E-07	1.76E-12
PT-PCDB5-87.0-87.5	87.0 - 87.5	V	20171217	3.86	3.76E-06	3.81E-11
PT-PCDB8-23.3-23.8	23.3 - 23.8	V	20171217	8.99	8.87E-06	8.87E-11
PT-PCDB8-36.0-36.5	36.0 - 36.5	V	20171217	0.339	3.34E-07	3.35E-12
PT-PCDB8-50.0-50.5	50.0 - 50.5	V	20171217	3.86	3.81E-06	3.81E-11
PT-PCDB8-64.5-65.0	64.5 - 65.0	V	20171217	3.40	3.34E-06	3.35E-11
PT-PCDB8-80.3-80.8	80.3 - 80.8	V	20171217	1.29	1.20E-06	1.27E-11
PT-PCDB8-88.3-89.5	88.3 - 89.5	V	20171217	1.39	1.34E-06	1.37E-11
PT-PCDB9-21.5-22.0	21.5 - 22.0	V	20171217	3.07	2.99E-06	3.03E-11
PT-PCDB9-31.3-32.0	31.3 - 32.0	V	20171217	0.770	7.54E-07	7.60E-12
PT-PCDB9-40.5-41.0	40.5 - 41.0	V	20171217	0.427	3.96E-07	4.21E-12
PT-PCDB9-55.0-55.5	55.0 - 55.5	V	20171217	6.82	6.37E-06	6.73E-11
PT-PCDB9-67.0-67.5	67.0 - 67.5	V	20171217	59.6	5.57E-05	5.88E-10
PT-PCDB9-79.5-80.2	79.5 - 80.2	V	20171217	0.825	7.56E-07	8.14E-12
PT-PCDB9-87.0-87.6	87.0 - 87.6	V	20171217	1.77	1.63E-06	1.75E-11

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
 (2) Effective (Native) = With as-received pore fluids in place.
 (3) Permeability to water and hydraulic conductivity measured at saturated conditions.
 Water = filtered Laboratory Fresh (tap) or Site water.

PTS File No: 47398
 Client: Ramboll Environ
 Report Date: 01/04/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C MO3B

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-PC162-11.0-11.5	11.0 - 11.5	20180102	0930	SOIL	587	5.87E-04
PT-PC162-15.0-15.5	15.0 - 15.5	20180102	0930	SOIL	664	6.64E-04
PT-PC162-23.5-24.0	23.5 - 24.0	20180102	0930	SOIL	296	2.96E-04
PT-PC162-35.0-35.5	35.0 - 35.5	20180102	0930	SOIL	197	1.97E-04
PT-PC163-12.5-13.0	12.5 - 13.0	20180102	0930	SOIL	568	5.68E-04
PT-PC164-12.5-13.0	12.5 - 13.0	20180102	0930	SOIL	585	5.85E-04
PT-PC164-32.0-32.5	32.0 - 32.5	20180102	0930	SOIL	778	7.78E-04
PT-PC164-36.0-36.8	36.0 - 36.8	20180102	0930	SOIL	666	6.66E-04
PT-PC165-12.0-12.3	12.0 - 12.3	20180102	0930	SOIL	786	7.86E-04
PT-PC165-31.0-31.3	31.0 - 31.3	20180102	0930	SOIL	589	5.89E-04
PT-PC165-36.7-37.0	36.7 - 37.0	20180102	0930	SOIL	494	4.94E-04
PT-PC166-11.5-11.8	11.5 - 11.8	20180102	0930	SOIL	865	8.65E-04
PT-PC166-22.0-22.3	22.0 - 22.3	20180102	0930	SOIL	392	3.92E-04
PT-PC166-33.7-34.2	33.7 - 34.2	20180102	0930	SOIL	202	2.02E-04
PT-PC172-13.5-14.0	13.5 - 14.0	20180102	0930	SOIL	495	4.95E-04
PT-PC172-18.5-19.0	18.5 - 19.0	20180102	0930	SOIL	492	4.92E-04
PT-PC172-23.5-24.0	23.5 - 24.0	20180102	0930	SOIL	686	6.86E-04
PT-PC175-12.7-13.0	12.7 - 13.0	20180102	0930	SOIL	480	4.80E-04
PT-PC175-23.0-23.3	23.0 - 23.3	20180102	0930	SOIL	494	4.94E-04
PT-PC175-32.7-33.0	32.7 - 33.0	20180102	0930	SOIL	704	7.04E-04

Blank	N/A	20180102	0930	BLANK	ND	ND
SRM D093-542	N/A	20180102	0930	SRM	6599	6.60E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	120	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47398
 Client: Ramboll Environ
 Report Date: 01/04/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C MO3B

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-PC175-39.5-39.8	39.5 - 39.8	20180103	1000	SOIL	299	2.99E-04
PT-PC188-10.5-11.0	10.5 - 11.0	20180103	1000	SOIL	594	5.94E-04
PT-PC188-39.5-40.5	39.5 - 40.5	20180103	1000	SOIL	593	5.93E-04
PT-PC188-56.0-56.7	56.0 - 56.7	20180103	1000	SOIL	302	3.02E-04
PT-PC188-66.0-66.7	66.0 - 66.7	20180103	1000	SOIL	500	5.00E-04
PT-PC188-75.5-76.3	75.5 - 76.3	20180103	1000	SOIL	493	4.93E-04
PT-PC188-86.5-87.0	86.5 - 87.0	20180103	1000	SOIL	492	4.92E-04
PT-PC193-11.0-11.5	11.0 - 11.5	20180103	1000	SOIL	390	3.90E-04
PT-PC193-14.5-15.5	14.5 - 15.5	20180103	1000	SOIL	300	3.00E-04
PT-PC193-26.3-27.0	26.3 - 27.0	20180103	1000	SOIL	201	2.01E-04
PT-PC193-36.3-37.0	36.3 - 37.0	20180103	1000	SOIL	397	3.97E-04
PT-PC193-46.3-47.0	46.3 - 47.0	20180103	1000	SOIL	489	4.89E-04
PT-PCDB5-16.0-16.3	16.0 - 16.3	20180103	1000	SOIL	304	3.04E-04
PT-PCDB5-46.5-47.0	46.5 - 47.0	20180103	1000	SOIL	689	6.89E-04
PT-PCDB5-54.5-55.0	54.5 - 55.0	20180103	1000	SOIL	400	4.00E-04
PT-PCDB5-64.0-64.5	64.0 - 64.5	20180103	1000	SOIL	879	8.79E-04
PT-PCDB5-75.0-75.5	75.0 - 75.5	20180103	1000	SOIL	-575	-5.75E-04
PT-PCDB5-87.0-87.5	87.0 - 87.5	20180103	1000	SOIL	1226	1.23E-03
PT-PCDB8-8.0-8.5	8.0 - 8.5	20180103	1000	SOIL	977	9.77E-04
PT-PCDB8-23.3-23.8	23.3 - 23.8	20180103	1000	SOIL	584	5.84E-04

Blank	N/A	20180103	1000	BLANK	ND	ND
SRM D093-542	N/A	20180103	1000	SRM	6422	6.42E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance	
				Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	120	75-125	5590	4193	6988

ND = Not Detected

PTS File No: 47398
 Client: Ramboll Environ
 Report Date: 01/04/18

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: NERT
 Project No: 2141400C MO3B

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
PT-PCDB8-36.0-36.5	36.0 - 36.5	20180104	1015	SOIL	395	3.95E-04
PT-PCDB8-50.0-50.5	50.0 - 50.5	20180104	1015	SOIL	393	3.93E-04
PT-PCDB8-64.5-65.0	64.5 - 65.0	20180104	1015	SOIL	493	4.93E-04
PT-PCDB8-80.3-80.8	80.3 - 80.8	20180104	1015	SOIL	200	2.00E-04
PT-PCDB8-88.3-89.5	88.3 - 89.5	20180104	1015	SOIL	106	1.06E-04
PT-PCDB9-14.5-15.0	14.5 - 15.0	20180104	1015	SOIL	590	5.90E-04
PT-PCDB9-21.5-22.0	21.5 - 22.0	20180104	1015	SOIL	494	4.94E-04
PT-PCDB9-31.3-32.0	31.3 - 32.0	20180104	1015	SOIL	396	3.96E-04
PT-PCDB9-40.5-41.0	40.5 - 41.0	20180104	1015	SOIL	397	3.97E-04
PT-PCDB9-55.0-55.5	55.0 - 55.5	20180104	1015	SOIL	298	2.98E-04
PT-PCDB9-67.0-67.5	67.0 - 67.5	20180104	1015	SOIL	397	3.97E-04
PT-PCDB9-79.5-80.2	79.5 - 80.2	20180104	1015	SOIL	482	4.82E-04
PT-PCDB9-87.0-87.6	87.0 - 87.6	20180104	1015	SOIL	1342	1.34E-03

Blank	N/A	20180104	1015	BLANK	ND	ND
SRM D093-542	N/A	20180104	1015	SRM	6213	6.21E-03

Reporting Limit: 100 1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg	
				Lower	Upper
SRM D093-542	120	75-125	5590	4193	6988

ND = Not Detected

CHAIN-OF-CUSTODY FORM

No 12862

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT
 PROJECT LOCATION Henderson, NV
 PROJECT NUMBER 2141400C M03B
 SAMPLER Amy Manion
 FIELD PERSON# Amy Manion
 PROJECT MANAGER Ross Russell
 LABORATORY PTS
 SIGNATURE [Signature]
 DATE 9/13/17
 YEAR 2017

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-PC162-15.0-15.5	8/26/17	1040	15.0-15.5	1	S	2	U	NO	X	(COOLER 1)
PT-PC162-23.5-24.0	8/26/17	1115	23.5-24.0	1		2			X	* Hold samples pending further instruction from J. Danovan at Ramboll Environ
PT-PC162-35.0-35.5	8/26/17	1130	35.0-35.5	1		2			X	
PT-PC188-10.5-11.0	8/29/17	1500	10.5-11.0	1		2			X	
PT-PC188-39.5-40.5	8/29/17	1515	39.5-40.5	1		1			X	
PT-PC188-56.0-56.7	8/29/17	1545	56.0-56.7	1		1			X	
PT-PC188-66.0-66.7	8/30/17	1100	66.0-66.7	1		1			X	
PT-PC188-75.0-76.3	8/30/17	1210	75.0-76.3	1		1			X	
PT-PC188-86.5-87.0	8/30/17	1225	86.5-87.0	1		1			X	
TOTAL										

RELINQUISHED BY [Signature] TIME/DATE 1100/9/13/17
 RECEIVED BY COMPANY PTS Laboratories, Inc
 RELINQUISHED BY [Signature] TIME/DATE 9/12/17 @ 1730
 RECEIVED BY COMPANY
 RELINQUISHED BY
 RECEIVED BY COMPANY
 TIME/DATE
 SAME DAY 72 HOURS
 24 HOURS 5 DAYS
 48 HOURS (NORMAL)
 SAMPLE INTEGRITY INTACT (Y) N (N) TEMP 77°F

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612
 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016
 501 West Broadway, Suite 800, San Diego, CA 92101
 +1 949 261 5151 +1 949 261 6202
 +1 213 943 6300 +1 213 943 6301
 +1 602 734 7700 +1 602 734-7701
 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No. 12861

UST PROJECT OR IS EDF REQUIRED? YES NERI NO IF YES, GLOBAL ID#
 PROJECT NAME/FACILITY ID Henderson, NY WORK ORDER # _____
 PROJECT LOCATION 2141400C M03B PROJECT PERSON# Amy Manion
 PROJECT NUMBER 2141400C M03B PROJECT MANAGER Ross Russell
 SAMPLER Amy Manion LABORATORY PTS SIGNATURE [Signature] YEAR 2017 DATE 9/13/17

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-PC172-13.5-14.0	8/25/17	1020	13.5-14.0	1	S	2	V	NO	X	* Hold samples pending further instruction from S. Donovan or Samball Finamore
PT-PC172-23.5-24.0	8/25/17	1030	23.5-24.0	1	S	2	V	NO	X	
PT-PC172-18.5-19.0	8/25/17	1045	18.5-19.0	1	S	2	V	NO	X	
PT-PC163-12.5-13.0	8/25/17	1245	12.5-13.0	1	S	2	V	NO	X	
PT-PC193-11.0-11.5	8/24/17	0725	11.0-11.5	1	S	2	V	NO	X	
PT-PC193-14.5-15.5	8/26/17	0745	14.5-15.5	1	S	2	V	NO	X	
PT-PC193-26.3-27.0	8/25/17	0810	26.3-27.0	1	S	2	V	NO	X	
PT-PC193-36.3-37.0	8/26/17	0830	36.3-37.0	1	S	2	V	NO	X	
PT-PC193-46.3-47.0	8/26/17	0850	46.3-47.0	1	S	2	V	NO	X	
PT-PC162-11.0-11.5	8/26/17	1010	11.0-11.5	1	S	2	V	NO	X	
TOTAL										

RELINQUISHED BY [Signature] TIME/DATE 10/07/17 RECEIVED BY COMPANY PTS Laboratories, Inc TIME/DATE 9/12/17 SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
 RELINQUISHED BY [Signature] TIME/DATE 9/21/17 @ 1730 RECEIVED BY COMPANY [Signature] TIME/DATE 9/21/17 @ 1730 SAMPLE INTEGRITY INTACT Y N TEMP 75.9°F

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151
 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300
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 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

Page 2 of 5

CHAIN-OF-CUSTODY FORM

No 12860

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #

PROJECT NAME/FACILITY ID: NERT
 PROJECT LOCATION: Henderson, NV
 PROJECT NUMBER: 2141400C M03B
 SAMPLER: Amy Mantion
 FIELD PERSON#: Amy Mantion
 PROJECT MANAGER: Ross Russell
 LABORATORY: PTS
 SIGNATURE: [Signature]

DATE: 9/13/17
 YEAR: 2017

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-PC166-11.5-11.8	9/6/17	1305	11.5-11.8	-	S	1	U	NO	X	(cooler 3)
PT-PC166-22.0-22.3		1312	22.0-22.3	/		1			X	* Hold samples pending further instruction from J. Donovan at Ramboll Environ
PT-PC166-33.7-34.2		1320	33.7-34.2	/		1			X	
PT-PC085-16.0-16.3		1333	16.0-16.3	/		1			X	
PT-PC085-46.5-47.0		1340	46.5-47.0	/		1			X	
PT-PC085-54.5-55.0		1348	54.5-55.0	/		1			X	
PT-PC085-64.0-64.5		1358	64.0-64.5	/		1			X	
PT-PC085-75.0-75.5		1410	75.0-75.5	/		1			X	
PT-PC085-87.0-87.5		1422	87.0-87.5	/		1			X	
PT-PC165-12.0-12.3	9/7/17	1402	12.0-12.3	/		1			X	
PT-PC165-31.0-31.3		1408	31.0-31.3	/		1			X	
PT-PC165-36.7-37.0		1415	36.7-37.0	/		1			X	
TOTAL										

RELINQUISHED BY: [Signature] TIME/DATE: 9/12/17 RECEIVED BY COMPANY: PTS Laboratories

RELINQUISHED BY: [Signature] TIME/DATE: 9/13/17 RECEIVED BY COMPANY: PTS Laboratories

RELINQUISHED BY: [Signature] TIME/DATE: 9/21/17 @ 1730 RECEIVED BY COMPANY: PTS Laboratories

TURNAROUND TIME (CIRCLE ONE): SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL

SAMPLE INTEGRITY: INTACT Y N TEMP 72.9°F

SWBU Office Locations:

- 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612
- 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017
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Page 3 of 5

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

CHAIN-OF-CUSTODY FORM

No. 13143

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# WORK ORDER #
 PROJECT NAME/FACILITY ID NERT
 PROJECT LOCATION HENDERSON, NV
 PROJECT NUMBER 21-41400C
 SAMPLER Amy Manion / Alex Marr YEAR 2017
 FIELD PERSON# Amy Manion / Alex Marr
 PROJECT MANAGER Ross Russell
 LABORATORY PTS
 SIGNATURE [Signature]

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-PC175-12.7-13.0	9/18/17	1115	12.7-13.0		S	1	U	NO		
PT-PC175-23.0-23.3		1121	23.0-23.3		F	1				
PT-PC175-32.7-33.0		1128	32.7-33.0			1				
PT-PC175-39.5-39.8		1135	39.5-39.8			1				
PT-PC164-12.5-13.0	9/19/17	0925	12.5-13.0			2				
PT-PC164-32.0-32.5		1000	32.0-32.5			1				
PT-PC164-36.0-36.8		1015	36.0-36.8			1				
PT-PCDB9-14.5-15.0	9/20/17	0900	14.5-15.0			1				
PT-PCDB9-21.5-22.0		0910	21.5-22.0			1				
PT-PCDB9-31.3-32.0		0920	31.3-32.0			1				
PT-PCDB9-40.5-41.0		0935	40.5-41.0			1				
PT-PCDB9-55.0-55.5		1010	55.0-55.5			1				
TOTAL						13				

RELINQUISHED BY [Signature] TIME/DATE 9/21/17 01130 RECEIVED BY [Signature] COMPANY PTS Laboratories, Inc TIME/DATE 1400 9/27/17
 RELINQUISHED BY [Signature] TIME/DATE RECEIVED BY COMPANY TIME/DATE
 RELINQUISHED BY TIME/DATE RECEIVED BY COMPANY TIME/DATE

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 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300
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 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No 13144

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID#

WORK ORDER #

PROJECT NAME/FACILITY ID

NERT

FIELD PERSON#

Alex Marr, Amy Manion

PROJECT LOCATION

HENDERSON, NV

PROJECT MANAGER

Ross Russell

PROJECT NUMBER

21-41400C M03B

LABORATORY

PTS

SAMPLER

Alex Marr / Amy Manion

SIGNATURE

DATE 9/21/17

YEAR 2017

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-PCDB9-67.0-67.5	9/20/17	1025			S	1	N			
PT-PCDB9-79.5-80.2		1045				1				
PT-PCDB9-87.0-87.6		1055				1				
PT-PCDB8-8.0-8.5	9/21/17	1115				1				
PT-PCDB8-23.3-23.8		1120				1				
PT-PCDB8-50.0-50.5		1135				1				
PT-PCDB8-36.0-36.5		1150				1				
PT-PCDB8-64.5-65.0		1250				1				
PT-PCDB8-80.3-80.8		1300				1				
PT-PCDB8-88.3-89.5		1315				1				
TOTAL										

(Coolers)
47398

* HOLD SAMPLES PENDING INSTRUCTIONS FROM JESSICA DONOVAN OF RAMBOLL-ENVIRON (jdonovan@ramboll.com)

RECEIVED BY: *[Signature]* TIME/DATE: 9/21/17 @ 1730

RELINQUISHED BY: *[Signature]* TIME/DATE: 9/20/17 1400 9/27/17

RECEIVED BY COMPANY: PPTS Laboratories, Inc

RECEIVED BY COMPANY: PPTS

RECEIVED BY COMPANY: PPTS

TURNAROUND TIME (CIRCLE ONE): 72 HOURS 24 HOURS 48 HOURS NORMAL

SAMPLE INTEGRITY: INTACT N TEMP 78.40F

SWBU Office Locations:

- 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612
- 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017
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+1 619 400 4934

Page ____ of ____

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

ATTACHMENT F-2
CORE LABORATORIES LP (CORE LAB) REPORTS

ATTACHMENT F-2: CORE LAB REPORTS

Core Lab

File No.	RI Borings
1800210*	ES-1, ES-4, ES-31, ESB-3
1800210	Revised USCS Classification
1800558*	ES-8B, ES-9, ES-10, ES-12, ESB-14, TB-G1, TB-G2, TB-G5
1800558	Revised USCS Classification
1801096*	ES-15, ES-17, ES-25B, ES-26, ES-27, ESB-18
1801096	Revised USCS Classification
1803764	RIDB-30, RIDB-31, RIDB-32, RIDB-33
1804628	RIDB-34, RIDB-35, RIDB-36

Note: * = Soil classification and grain size distribution curves in the original lab report was based on the Wentworth grain size classification categories. The revised USCS classification report presents grain size distribution based on the USCS grain size classification categories.



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February 28, 2018

Jessica Donovan
Ramboll US Corporation
2200 Powell Street, Suite 700
Emeryville, CA 94608

Subject: Petrophysical Properties
File No.: 1800210

Dear Ms. Donovan:

Enclosed are final data for the 39 samples submitted to our laboratory from project LePetXXVII: Nert RI Phase 3 in Henderson, Nevada.

Grain size analysis, Atterberg Limits, Moisture Content, Density, Porosity, Hydraulic Conductivity, and TOC were performed on requested samples where there was suitable recovery. Appropriate ASTM, EPA or API methodologies were used for this project and SOP's are available on request. The sample for this project is currently in storage and will be retained for thirty days past completion of testing at no charge. At the end of thirty days, the sample will be disposed. You may contact me regarding continued storage, disposal, or return of the sample.

Thank you for this opportunity to be of service to Ramboll US Corporation. Please do not hesitate to contact us at (661-325-5657) if you have any questions regarding these results or if we can be of any additional service.

Sincerely,
Core Laboratories

Crystal Grinstead
Core Analyst

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, expressed or implied, as to the productivity, proper operations or profitability, however, of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 0006608-038

CL File Number: 1800210

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Table 1 Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800210EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	Sample ¹ Orientation	METHODS:		Density		Porosity ²	
				API RP40 ASTM D2216	API RP40 D5550	Dry Bulk g/cm ³	Grain gm/cc	Total %	Effective ³ %Vb ⁴
				Mositure Content % dry weight					
PT-ES1-54.0-54.5	54.0-54.5	01/10/18	V	34.31	1.38	2.65	47.78	7.91	
PT-ES1-65.3-65.8	65.3-65.8	01/10/18	V	48.94	1.15	2.65	56.74	10.82	
PT-ES1-74.0-74.5	74.0-74.5	01/10/18	V	43.63	1.21	2.67	54.59	8.70	
PT-ES1-85.5-86.0	85.5-86.0	01/10/18	V	42.69	1.23	2.63	53.16	14.31	
PT-ES1-94.0-94.5	94.0-94.5	01/10/18	V	66.99	0.93	2.64	64.71	11.67	
PT-ES1-103.8-104.3	103.8-104.3	01/10/18	V	39.52	1.29	2.66	51.43	12.50	
PT-ES1-114.5-115.0	114.5-115.0	01/10/18	V	43.30	1.26	2.68	50.71	12.10	
PT-ES4-57.5-58.0	57.5-58.0	12/12/17	V	30.82	1.46	2.65	45.06	15.23	
PT-ES4-68.2-68.7	68.2-68.7	12/13/2017	V	50.51	1.17	2.65	54.08	13.18	
PT-ES4-82.0-82.5	82.0-82.5	12/13/2017	V	56.24	1.07	2.70	60.45	10.07	
PT-ES4-94.5-95.0	94.5-95.0	12/13/2017	V	63.09	1.03	2.65	59.57	17.69	
PT-ES4-114.0-114.5	114.0-114.5	12/13/2017	V	34.29	1.39	2.64	43.39	15.57	
PT-ES31-45.0-45.5	45.0-45.5	1/4/2018	V	64.86	0.95	2.71	64.92	9.53	
PT-ES31-55.0-55.5	55.0-55.5	1/4/2018	V	83.93	0.80	2.65	69.93	6.97	
PT-ES31-68.0-68.5	68.0-68.5	1/4/2018	V	49.96	1.11	2.66	58.42	5.65	
PT-ES31-82.0-82.5	82.0-82.5	1/4/2018	V	87.93	0.78	2.67	70.68	6.34	
PT-ES31-95.0-95.5	95.0-95.5	1/4/2018	V	81.19	0.84	2.65	68.44	7.30	
PT-ES31-115.0-115.5	115.0-115.5	1/4/2018	V	31.70	1.45	2.77	47.83	5.16	
PT-ESB3-54.5-55.0	54.5-55.0	12/17/2018	V	64.63	0.96	2.71	64.69	8.15	
PT-ESB3-64.5-65.0	64.5-65.0	12/17/2018	V	79.44	0.84	2.72	69.17	9.13	
PT-ESB3-77.0-77.5	77.0-77.5	12/17/2018	V	63.28	0.95	2.68	64.37	5.76	
PT-ESB3-94.5-95.0	94.5-95.0	12/17/2018	V	124.31	0.60	2.58	76.94	6.49	
PT-ESB3-114.5-115.0	114.5-115.0	12/17/2018	V	43.14	1.24	2.77	55.02	9.95	



Table 1 Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800210EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	Sample ¹ Orientation	METHODS:	API RP40	API RP40	API RP 40		
				ASTM D2216	D5550	ASTM D425M			
				Mositure Content % dry weight	Density		Porosity ²		
					Dry Bulk g/cm ³	Grain gm/cc	Total %	Effective ³ %Vb ⁴	
PT-ESB3-132.0-132.5	132.0-132.5	12/18/2017	V		41.94	1.27	2.73	53.44	7.03
PT-ESB3-147.5-148.0	147.5-148.0	12/18/2017	V		44.40	1.20	2.65	54.86	4.46

- (1) Sample Orientation: H = horizontal; V = vertical.
- (2) Total Porosity = no pore fluids in place; all interconnected pore channels.
- (3) Effective Porosity = drainage porosity.
- (4) Vb = Bulk Volume, cc.



Table 2 HYDRAULIC CONDUCTIVITY

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1800210EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID.	Depth, ft.	Sample Orientation ¹	METHODS: API RP 40; ASTM D5084; EPA 9100	
			100 psi Net Confining Stress	
			Effective ^{2,3} Permeability to Water, millidarcy	Saturated Hydraulic Conductivity, ^{2,3} cm/s
PT-ES1-54.0-54.5	54.0-54.5	V	0.072	6.76E-08
PT-ES1-85.5-86.0	85.5-86.0	V	1.883	1.84E-06
PT-ES1-114.5-115.0	114.5-115.0	V	0.403	3.96E-07
PT-ES4-57.5-58.0	57.5-58.0	V	2.241	2.17E-06
PT-ES4-68.2-68.7	68.2-68.7	V	0.202	2.05E-07
PT-ES4-82.0-82.5	82.0-82.5	V	1.151	1.15E-06
PT-ES4-94.5-95.0	94.5-95.0	V	0.084	8.66E-08
PT-ES4-114.0-114.5	114.0-114.5	V	0.909	9.48E-07
PT-ES31-55.0-55.5	55.0-55.5	V	0.033	3.43E-08
PT-ES31-82.0-82.5	82.0-82.5	V	0.014	1.52E-08
PT-ES31-95.0-95.5	95.0-95.5	V	0.005	5.15E-09
PT-ESB3-54.5-55.0	54.5-55.0	V	0.014	1.44E-08
PT-ESB3-64.5-65.0	64.5-65.0	V	0.066	6.38E-08
PT-ESB3-77.0-77.5	77.0-77.5	V	0.011	1.10E-08
PT-ESB3-94.5-95.0	94.5-95.0	V	0.065	6.72E-08
PT-ESB3-114.5-115.0	114.5-115.0	V	0.115	1.18E-07

(1) Sample Orientation: H = horizontal; V = vertical

(2) Native State or Effective = With as-received pore fluids in place.

(3) Permeability to water and hydraulic conductivity measured at saturated conditions.



Table 3 TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800210EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-ES1-14.5-14.8	14.5-14.8	01/10/18	V		4800	4.80E-03
PT-ES1-24.2-24.5	24.2-24.5	01/10/18	V		4300	4.30E-03
PT-ES1-35.2-35.5	35.2-35.5	01/10/18	V		4400	4.40E-03
PT-ES1-44.0-44.3	44.0-44.3	01/10/18	V		2400	2.40E-03
PT-ES1-54.0-54.5	54.0-54.5	01/10/18	V		3800	3.80E-03
PT-ES1-65.3-65.8	65.3-65.8	01/10/18	V		4100	4.10E-03
PT-ES1-74.0-74.5	74.0-74.5	01/10/18	V		3700	3.70E-03
PT-ES1-85.5-86.0	85.5-86.0	01/10/18	V		3900	3.90E-03
PT-ES1-94.0-94.5	94.0-94.5	01/10/18	V		4500	4.50E-03
PT-ES1-103.8-104.3	103.8-104.3	01/10/18	V		4000	4.00E-03
PT-ES1-114.5-115.0	114.5-115.0	01/10/18	V		2900	2.90E-03
PT-ES4-15.2-15.5	15.2-15.5	12/12/17	V		4900	4.90E-03
PT-ES4-25.0-25.3	25.0-25.3	12/12/17	V		4900	4.90E-03
PT-ES4-35.2-35.5	35.2-35.5	12/12/17	V		3700	3.70E-03
PT-ES4-44.7-45.0	44.7-45.0	12/12/17	V		3800	3.80E-03
PT-ES4-57.5-58.0	57.5-58.0	12/12/17	V		2800	2.80E-03
PT-ES4-68.2-68.7	68.2-68.7	12/13/2017	V		3700	3.70E-03
PT-ES4-82.0-82.5	82.0-82.5	12/13/2017	V		4200	4.20E-03
PT-ES4-94.5-95.0	94.5-95.0	12/13/2017	V		4600	4.60E-03
PT-ES4-114.0-114.5	114.0-114.5	12/13/2017	V		3500	3.50E-03
PT-ES31-15.0-15.5	15.0-15.5	1/4/2018	V		5900	5.90E-03
PT-ES31-25.0-25.5	25.0-25.5	1/4/2018	V		3200	3.20E-03
PT-ES31-35.2-35.5	35.2-35.5	1/4/2018	V		4300	4.30E-03



Table 3 TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800210EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-ES31-45.0-45.5	45.0-45.5	1/4/2018	V		4800	4.80E-03
PT-ES31-55.0-55.5	55.0-55.5	1/4/2018	V		5200	5.20E-03
PT-ES31-68.0-68.5	68.0-68.5	1/4/2018	V		4400	4.40E-03
PT-ES31-82.0-82.5	82.0-82.5	1/4/2018	V		5300	5.30E-03
PT-ES31-95.0-95.5	95.0-95.5	1/4/2018	V		13600	1.36E-02
PT-ES31-115.0-115.5	115.0-115.5	1/4/2018	V		15300	1.53E-02
PT-ESB3-14.5-15.0	14.5-15.0	12/17/2018	V		3200	3.20E-03
PT-ESB3-29.5-29.8	29.5-29.8	12/17/2018	V		3700	3.70E-03
PT-ESB3-44.5-45.8	44.5-45.8	12/17/2018	V		3500	3.50E-03
PT-ESB3-54.5-55.0	54.5-55.0	12/17/2018	V		5300	5.30E-03
PT-ESB3-64.5-65.0	64.5-65.0	12/17/2018	V		5100	5.10E-03
PT-ESB3-77.0-77.5	77.0-77.5	12/17/2018	V		4900	4.90E-03
PT-ESB3-94.5-95.0	94.5-95.0	12/17/2018	V		5500	5.50E-03
PT-ESB3-114.5-115.0	114.5-115.0	12/17/2018	V		32800	3.28E-02
PT-ESB3-132.0-132.5	132.0-132.5	12/18/2017	V		13200	1.32E-02
PT-ESB3-147.5-148.0	147.5-148.0	12/18/2017	V		12100	1.21E-02

(1) Sample Orientation: H = horizontal; V = vertical.



**Table 4
ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA**

Ramboll US Corporation

Core Lab File No: 1800210EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol	USCS Classification	USDA/SCS ² Soil Texture Scheme
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI	(Fines: <#40 Sieve)	Group Symbol: Name	
PT-ES1-14.5-14.8	14.5-14.8	24	23	1	SM	Silty sand with gravel	Loamy Sand
PT-ES1-24.2-24.5	24.2-24.5		Non-Plastic		GM	Silty gravel with sand	Loamy Sand
PT-ES1-35.2-35.5	35.2-35.5	25	18	7	SC-SM	Silty, clayey sand with gravel	Sandy Loam
PT-ES1-44.0-44.3	44.0-44.3	25	20	5	GC-GM	Silty, clayey gravel with sand	Loamy Sand
PT-ES1-54.0-54.5	54.0-54.5	38	29	9	ML	Silt with sand	Silt Loam
PT-ES1-65.3-65.8	65.3-65.8	54	33	21	MH	Elastic silt	Silt Loam
PT-ES1-74.0-74.5	74.0-74.5	43	28	15	ML	Silt	Silt Loam
PT-ES1-85.5-86.0	85.5-86.0	37	31	6	ML	Silt with sand	Silt Loam
PT-ES1-94.0-94.5	94.0-94.5	65	45	20	MH	Elastic silt	Silt Loam
PT-ES1-103.8-104.3	103.8-104.3	32	27	5	ML	Silt with sand	Silt Loam
PT-ES1-114.5-115.0	114.5-115.0	46	27	19	CL	Lean clay	Silt Loam
PT-ES4-15.2-15.5	15.2-15.5	25	24	4	GC-GM	Silty, clayey gravel with sand	Sand
PT-ES4-25.0-25.3	25.0-25.3	28	24	4	GM	Silty gravel with sand	Loamy Sand
PT-ES4-35.2-35.5	35.2-35.5		Non-Plastic		GM	Silty gravel with sand	Sandy Loam
PT-ES4-44.7-45.0	44.7-45.0	27	22	5	SM	Silty sand with gravel	Sandy Loam
PT-ES4-57.5-58.0	57.5-58.0	26	23	3	ML	Sandy silt	Silt Loam
PT-ES4-68.2-68.7	68.2-68.7	44	32	12	ML	Silt with sand	Silt Loam
PT-ES4-82.0-82.5	82.0-82.5	54	40	14	MH	Elastic silt	Silt Loam
PT-ES4-94.5-95.0	94.5-95.0	54	40	14	MH	Elastic silt	Silt Loam
PT-ES4-114.0-114.5	114.0-114.5	30	26	4	ML	Silt with sand	Silt Loam



Table 4 ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1800210EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol	USCS Classification	USDA/SCS ² Soil Texture
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI	(Fines: <#40 Sieve)	Group Symbol: Name	Scheme
PT-ES31-15.0-15.5	15.0-15.5	29	27	2	SM	Silty sand with gravel	Sand
PT-ES31-25.0-25.5	25.0-25.5	22	20	2	GM	Silty gravel with sand	Sand
PT-ES31-35.2-35.5	35.2-35.5	42	35	7	SM	Silty sand with gravel	Sandy Loam
PT-ES31-45.0-45.5	45.0-45.5	105*	64	41	MH	Elastic silt	Silty Clay Loam
PT-ES31-55.0-55.5	55.0-55.5	111*	70	41	MH	Elastic silt with sand	Silt Loam
PT-ES31-68.0-68.5	68.0-68.5	115*	49	66	MH	Elastic silt	Silty Clay Loam
PT-ES31-82.0-82.5	82.0-82.5	232*	91	141	MH	Elastic silt	Silty Clay Loam
PT-ES31-95.0-95.5	95.0-95.5	171*	72	99	MH	Elastic silt	Silty Clay Loam
PT-ES31-115.0-115.5	115.0-115.5	39	29	10	ML	Silt	Silty Clay Loam
PT-ESB3-14.5-15.0	14.5-15.0	23	22	1	GM	Silty gravel with sand	Loamy Sand
PT-ESB3-29.5-29.8	29.5-29.8	23	22	1	SM	Silty sand with gravel	Loamy Sand
PT-ESB3-44.5-45.8	44.5-45.8	26	25	1	SM	Silty sand with gravel	Loamy Sand
PT-ESB3-54.5-55.0	54.5-55.0	73	49	24	MH	Elastic silt	Silty Clay Loam
PT-ESB3-64.5-65.0	64.5-65.0	81	55	26	MH	Elastic silt	Silt Loam
PT-ESB3-77.0-77.5	77.0-77.5	91	42	49	MH	Elastic silt	Silt
PT-ESB3-94.5-95.0	94.5-95.0	98	66	32	MH	Elastic silt with sand	Silt Loam
PT-ESB3-114.5-115.0	114.5-115.0	56	38	18	MH	Elastic silt	Silty Clay
PT-ESB3-132.0-132.5	132.0-132.5	77	42	35	MH	Elastic silt	Silt Loam
PT-ESB3-147.5-148.0	147.5-148.0	91	46	45	MH	Elastic silt	Silty Clay

USCS: Unified Soil Classification System

USDA: US Department of Agriculture

SCS: Soil Conservation Service

* Grain size analysis indicates swelling clays.

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.

(2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.



Table 5 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 0006608-038

CL File Number: 1800210
Date: 2/14/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ES1-14.5-14.8	mgr	0.7346	18.56	22.58	16.55	9.38	7.30	7.42	14.35	3.84	18.2
PT-ES1-24.2-24.5	cgr	1.4219	40.89	16.97	10.34	5.77	3.16	3.76	14.55	4.55	19.1
PT-ES1-35.2-35.5	fgr	0.2809	16.85	14.15	12.67	7.37	4.97	5.28	27.97	10.76	38.7
PT-ES1-44.0-44.3	cgr	1.6257	45.96	12.40	8.98	6.07	3.98	3.72	13.88	5.01	18.9
PT-ES1-54.0-54.5	silt	0.0250	0.00	0.03	1.97	0.87	3.86	16.40	63.00	13.87	76.9
PT-ES1-65.3-65.8	silt	0.0213	0.00	0.00	0.00	0.28	2.60	14.31	69.73	13.07	82.8
PT-ES1-74.0-74.5	silt	0.0192	0.00	0.00	0.00	0.00	0.03	10.59	73.94	15.43	89.4
PT-ES1-85.5-86.0	silt	0.0211	0.00	0.00	0.00	0.62	5.20	15.91	63.59	14.69	78.3
PT-ES1-94.0-94.5	silt	0.0202	0.00	0.00	0.00	0.00	0.47	12.53	73.12	13.87	87.0
PT-ES1-103.8-104.3	silt	0.0349	0.00	0.00	0.00	0.00	4.56	27.39	56.94	11.12	68.06
PT-ES1-114.5-115.0	silt	0.0166	0.00	0.00	0.00	0.00	0.20	10.72	70.75	18.33	89.1
PT-ES4-15.2-15.5	vcgr	2.2097	53.45	15.81	8.60	4.19	2.85	2.85	9.46	2.79	12.2
PT-ES4-25.0-25.3	cgr	1.2941	43.26	11.49	11.37	6.11	4.33	5.16	14.72	3.56	18.3
PT-ES4-35.2-35.5	mgr	1.1267	39.18	13.08	10.23	4.72	3.17	4.08	19.20	6.35	25.6
PT-ES4-44.7-45.0	mgr	0.6384	23.69	18.89	9.78	4.07	3.31	5.54	27.05	7.68	34.7



Table 5 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 0006608-038

CL File Number: 1800210
Date: 2/14/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ES4-57.5-58.0	silt	0.0438	0.00	0.00	0.00	1.33	13.11	24.81	50.18	10.57	60.7
PT-ES4-68.2-68.7	silt	0.0242	0.00	0.00	0.00	0.09	3.91	17.32	63.84	14.84	78.7
PT-ES4-82.0-82.5	silt	0.0116	0.00	0.00	0.00	0.00	0.00	6.30	69.86	23.84	93.7
PT-ES4-94.5-95.0	silt	0.0186	0.00	0.00	0.00	0.00	0.10	11.29	73.66	14.95	88.60
PT-ES4-114.0-114.5	silt	0.0366	0.00	0.00	0.00	0.00	1.65	24.20	63.87	10.28	74.1
PT-ES31-15.0-15.5	cgr	1.4382	39.43	20.29	13.31	6.48	4.15	3.80	10.22	2.32	12.5
PT-ES31-25.0-25.5	cgr	1.8253	46.97	18.82	10.81	4.58	2.94	2.73	10.13	3.01	13.1
PT-ES31-35.2-35.5	fgr	0.1289	20.97	13.02	5.63	3.56	7.28	13.42	29.68	6.44	36.1
PT-ES31-45.0-45.5	silt	0.0108	0.00	0.00	0.00	0.00	1.24	11.46	54.68	32.62	87.3
PT-ES31-55.0-55.5	silt	0.0284	0.00	0.00	0.00	0.03	5.81	18.38	64.19	11.59	75.8
PT-ES31-68.0-68.5	silt	0.0067	0.00	0.00	0.00	0.00	0.53	1.78	65.64	32.05	97.7
PT-ES31-82.0-82.5	silt	0.0078	0.00	0.00	0.00	0.02	0.33	2.46	65.49	31.69	97.2
PT-ES31-95.0-95.5	silt	0.0052	0.00	0.00	0.00	0.00	0.00	0.09	61.53	38.38	99.91
PT-ES31-115.0-115.5	silt	0.0063	0.00	0.00	0.00	0.07	2.50	10.21	47.52	39.70	87.2
PT-ESB3-14.5-15.0	cgr	1.8069	48.12	13.40	10.77	4.98	3.49	3.72	12.17	3.34	15.5



Table 5 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 0006608-038

CL File Number: 1800210
Date: 2/14/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ESB3-29.5-29.8	cgr	1.1126	40.04	11.93	10.97	7.06	5.07	5.20	15.19	4.55	19.7
PT-ESB3-44.5-44.8	mgr	0.8559	26.89	17.87	19.71	8.88	4.98	4.53	13.31	3.83	17.1
PT-ESB3-54.5-55.0	silt	0.0111	0.00	0.00	0.00	0.00	0.01	7.95	60.53	31.51	92.0
PT-ESB3-64.5-65.0	silt	0.0131	0.00	0.00	0.00	0.00	0.73	10.64	62.65	25.98	88.6
PT-ESB3-77.0-77.5	silt	0.0193	0.00	0.00	0.00	0.00	0.00	5.82	82.85	11.33	94.2
PT-ESB3-94.5-95.0	silt	0.0201	0.00	0.00	0.00	0.12	4.03	15.42	65.48	14.94	80.4
PT-ESB3-114.5-115.0	silt	0.0055	0.00	0.00	0.00	0.00	0.05	6.28	53.65	40.03	93.67
PT-ESB3-132.0-132.5	silt	0.0113	0.00	0.00	0.00	0.00	0.00	0.83	78.12	21.06	99.2
PT-ESB3-147.5-148.0	silt	0.0047	0.00	0.00	0.00	0.00	0.00	1.51	55.66	42.83	98.5



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 0006608-038

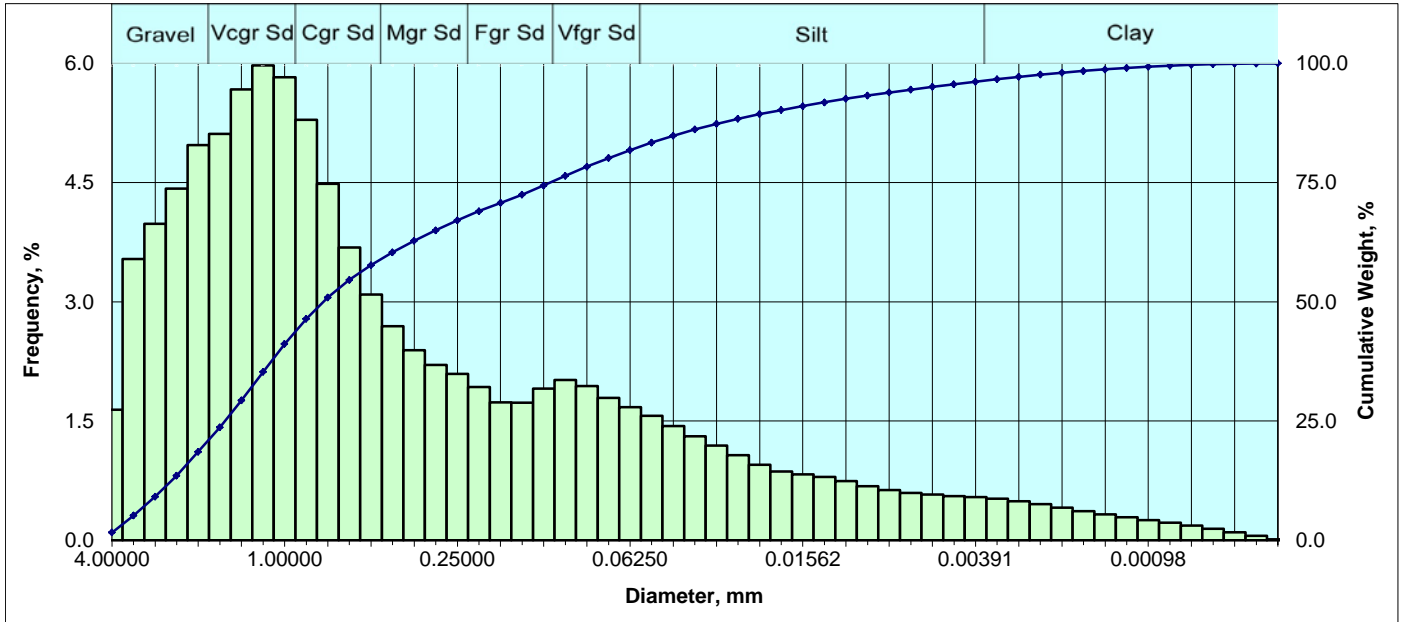
CL File Number: 1800210

APPENDIX 1

Particle Distribution Plots



Sieve and Laser Particle Size Analysis



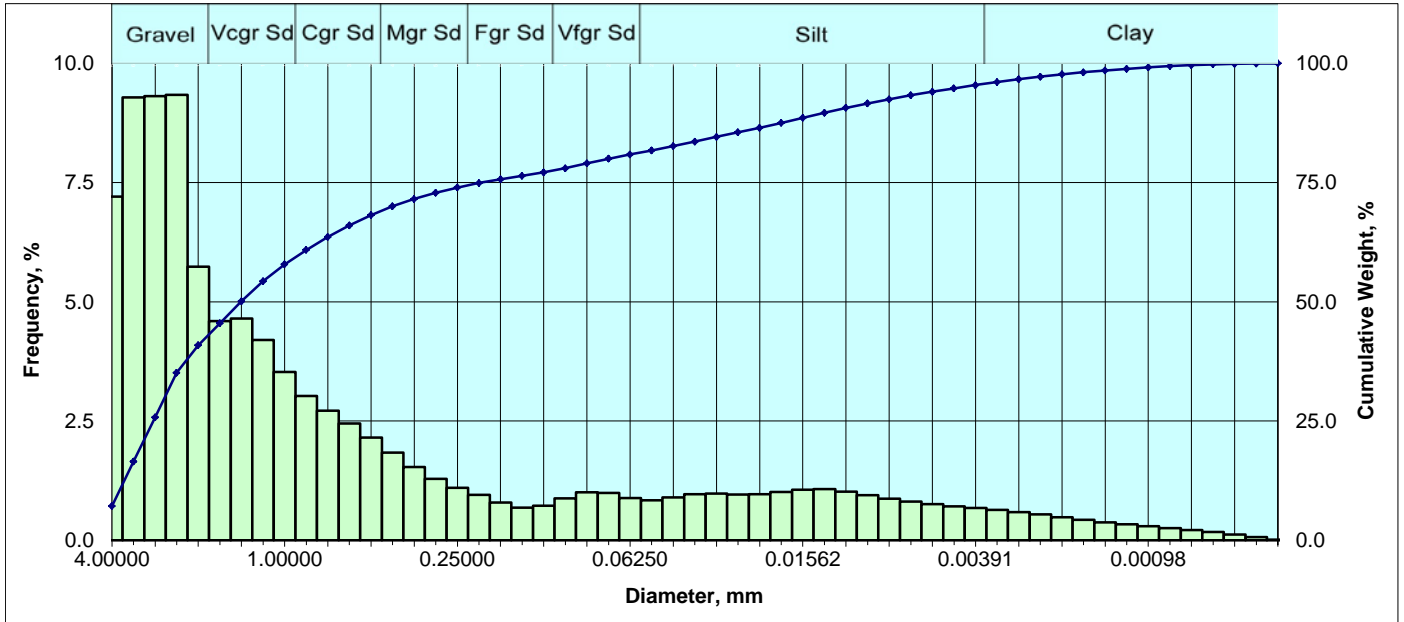
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]	
Granule	5	0.157480	4.00000	-2.00	1.643	1.64
	6	0.132425	3.36359	-1.75	3.540	5.18
	7	0.111355	2.82843	-1.50	3.982	9.17
	8	0.093638	2.37841	-1.25	4.425	13.59
V Crse Sand	10	0.078740	2.00000	-1.00	4.973	18.56
	12	0.066212	1.68179	-0.75	5.112	23.68
	14	0.055678	1.41421	-0.50	5.674	29.35
	16	0.046819	1.18921	-0.25	5.973	35.32
Coarse Sand	18	0.039370	1.00000	0.00	5.824	41.15
	20	0.033106	0.84090	0.25	5.291	46.44
	25	0.027839	0.70711	0.50	4.486	50.92
	30	0.023410	0.59460	0.75	3.685	54.61
Medium Sand	35	0.019685	0.50000	1.00	3.093	57.70
	40	0.016553	0.42045	1.25	2.692	60.39
	45	0.013919	0.35355	1.50	2.392	62.78
	50	0.011705	0.29730	1.75	2.208	64.99
Fine Sand	60	0.009843	0.25000	2.00	2.093	67.08
	70	0.008277	0.21022	2.25	1.930	69.01
	80	0.006960	0.17678	2.50	1.737	70.75
	100	0.005852	0.14865	2.75	1.729	72.48
V. Fine Sand	120	0.004921	0.12500	3.00	1.907	74.39
	140	0.004138	0.10511	3.25	2.016	76.40
	170	0.003480	0.08839	3.50	1.940	78.34
	200	0.002926	0.07433	3.75	1.793	80.14
Silt	230	0.002461	0.06250	4.00	1.674	81.81
	270	0.002069	0.05256	4.25	1.566	83.38
	325	0.001740	0.04419	4.50	1.439	84.82
	400	0.001463	0.03716	4.75	1.308	86.12
	450	0.001230	0.03125	5.00	1.192	87.32
	500	0.001035	0.02628	5.25	1.072	88.39
	635	0.000870	0.02210	5.50	0.951	89.34
		0.000732	0.01858	5.75	0.865	90.21
		0.000615	0.01562	6.00	0.828	91.03
		0.000517	0.01314	6.25	0.799	91.83
		0.000435	0.01105	6.50	0.743	92.58
Clay		0.000366	0.00929	6.75	0.682	93.26
		0.000308	0.00781	7.00	0.633	93.89
		0.000259	0.00657	7.25	0.598	94.49
		0.000217	0.00552	7.50	0.574	95.06
		0.000183	0.00465	7.75	0.557	95.62
		0.000154	0.00391	8.00	0.543	96.16
		0.000129	0.00328	8.25	0.522	96.68
		0.000109	0.00276	8.50	0.492	97.18
		0.000091	0.00232	8.75	0.454	97.63
		0.000077	0.00195	9.00	0.411	98.04
		0.000065	0.00164	9.25	0.367	98.41
		0.000054	0.00138	9.50	0.326	98.73
		0.000046	0.00116	9.75	0.289	99.02
		0.000038	0.00098	10.00	0.254	99.28
	0.000032	0.00082	10.25	0.221	99.50	
	0.000027	0.00069	10.50	0.185	99.68	
	0.000023	0.00058	10.75	0.145	99.83	
	0.000019	0.00049	11.00	0.102	99.93	
	0.000016	0.00041	11.25	0.055	99.99	
	0.000015	0.00038	11.50	0.013	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Coarse sand sized			
(in)	0.0289	0.0289	0.0289	
(mm)	0.7346	0.7346	0.7346	
Mean	Medium sand sized			
(in)	0.0342	0.0129	0.0169	
(mm)	0.8691	0.3277	0.4289	
Sorting	V. Poor			
	3.689	2.744	2.771	
Skewness	Strongly fine skewed			
	0.597	0.878	0.473	
Kurtosis	Mesokurtic			
	0.275	0.683	1.005	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
18.56	63.25	14.35	3.84	18.19
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.1337	3.3965	-1.7641	
10	0.1080	2.7436	-1.4561	
16	0.0864	2.1950	-1.1342	
25	0.0638	1.6193	-0.6954	
40	0.0408	1.0373	-0.0528	
50	0.0289	0.7346	0.4449	
75	0.0047	0.1190	3.0714	
84	0.0019	0.0489	4.3529	
90	0.0008	0.0194	5.6866	
95	0.0002	0.0056	7.4706	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



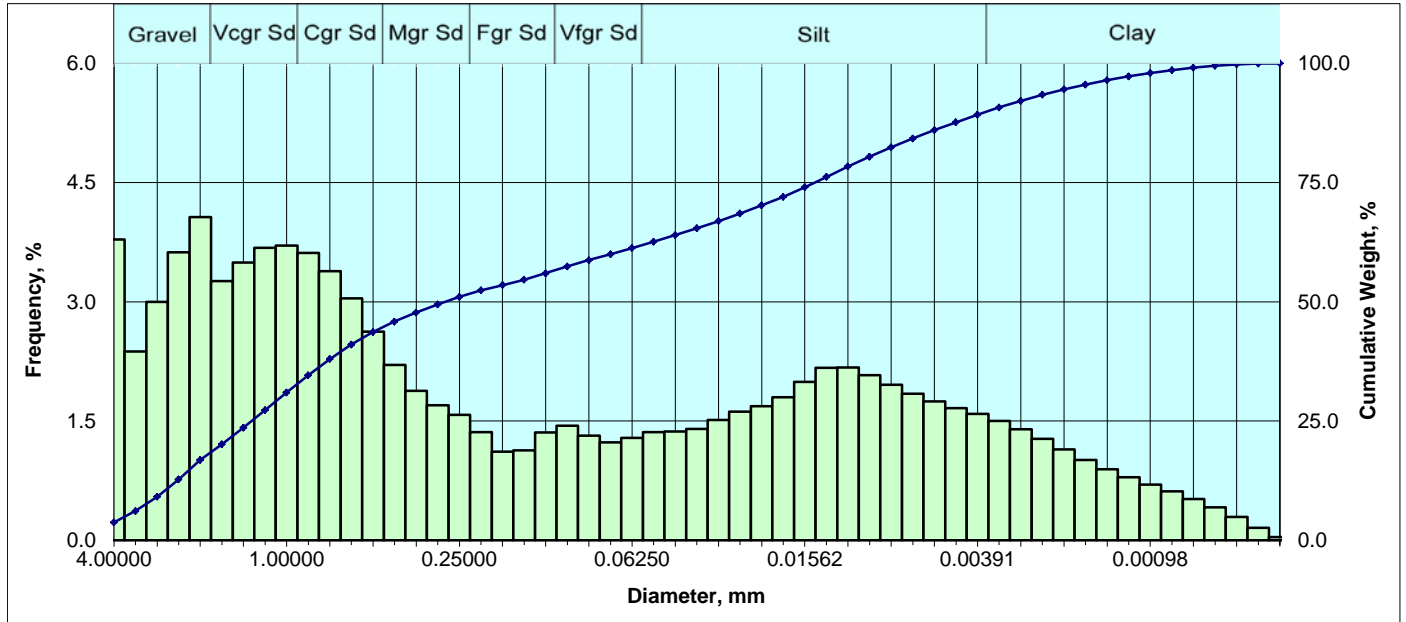
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	7.208	7.21
	6	0.132425	3.36359	-1.75	9.289	16.50
	7	0.111355	2.82843	-1.50	9.315	25.81
	8	0.093638	2.37841	-1.25	9.340	35.15
	10	0.078740	2.00000	-1.00	5.736	40.89
V Crse Sand	12	0.066212	1.68179	-0.75	4.597	45.49
	14	0.055678	1.41421	-0.50	4.648	50.13
	16	0.046819	1.18921	-0.25	4.198	54.33
	18	0.039370	1.00000	0.00	3.526	57.86
Coarse Sand	20	0.033106	0.84090	0.25	3.025	60.88
	25	0.027839	0.70711	0.50	2.716	63.60
	30	0.023410	0.59460	0.75	2.451	66.05
	35	0.019685	0.50000	1.00	2.153	68.20
	40	0.016553	0.42045	1.25	1.841	70.04
Medium Sand	45	0.013919	0.35355	1.50	1.538	71.58
	50	0.011705	0.29730	1.75	1.285	72.87
	60	0.009843	0.25000	2.00	1.104	73.97
	70	0.008277	0.21022	2.25	0.953	74.92
Fine Sand	80	0.006960	0.17678	2.50	0.793	75.72
	100	0.005852	0.14865	2.75	0.687	76.40
	120	0.004921	0.12500	3.00	0.727	77.13
	140	0.004138	0.10511	3.25	0.881	78.01
V. Fine Sand	170	0.003480	0.08839	3.50	1.006	79.02
	200	0.002926	0.07433	3.75	0.991	80.01
	230	0.002461	0.06250	4.00	0.887	80.90
	270	0.002069	0.05256	4.25	0.837	81.73
	325	0.001740	0.04419	4.50	0.898	82.63
	400	0.001463	0.03716	4.75	0.968	83.60
	450	0.001230	0.03125	5.00	0.979	84.58
Silt	500	0.001035	0.02628	5.25	0.960	85.54
	635	0.000870	0.02210	5.50	0.966	86.50
		0.000732	0.01858	5.75	1.012	87.51
		0.000615	0.01562	6.00	1.062	88.58
		0.000517	0.01314	6.25	1.072	89.65
		0.000435	0.01105	6.50	1.022	90.67
		0.000366	0.00929	6.75	0.946	91.62
		0.000308	0.00781	7.00	0.873	92.49
		0.000259	0.00657	7.25	0.810	93.30
		0.000217	0.00552	7.50	0.758	94.06
		0.000183	0.00465	7.75	0.715	94.77
		0.000154	0.00391	8.00	0.679	95.45
		0.000129	0.00328	8.25	0.639	96.09
		0.000109	0.00276	8.50	0.594	96.68
	Clay		0.000091	0.00232	8.75	0.541
		0.000077	0.00195	9.00	0.485	97.71
		0.000065	0.00164	9.25	0.430	98.14
		0.000054	0.00138	9.50	0.379	98.52
		0.000046	0.00116	9.75	0.335	98.85
		0.000038	0.00098	10.00	0.296	99.15
		0.000032	0.00082	10.25	0.258	99.41
		0.000027	0.00069	10.50	0.217	99.62
		0.000023	0.00058	10.75	0.172	99.80
		0.000019	0.00049	11.00	0.122	99.92
		0.000016	0.00041	11.25	0.065	99.98
		0.000015	0.00038	11.50	0.016	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0560	0.0560	0.0560	
(mm)	1.4219	1.4219	1.4219	
Mean	Coarse sand sized			
(in)	0.0607	0.0135	0.0217	
(mm)	1.5410	0.3435	0.5516	
Sorting	V. Poor			
	3.727	3.306	3.219	
Skewness	Strongly fine skewed			
	0.543	0.958	0.616	
Kurtosis	Lepokurtic			
	0.351	0.564	1.116	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
40.89	40.01	14.55	4.55	19.10
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2241	5.6925	-2.5091	
10	0.1499	3.8087	-1.9293	
16	0.1338	3.3977	-1.7645	
25	0.1132	2.8751	-1.5236	
40	0.0810	2.0586	-1.0417	
50	0.0560	1.4219	-0.5078	
75	0.0081	0.2070	2.2723	
84	0.0014	0.0347	4.8476	
90	0.0005	0.0124	6.3313	
95	0.0002	0.0044	7.8295	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



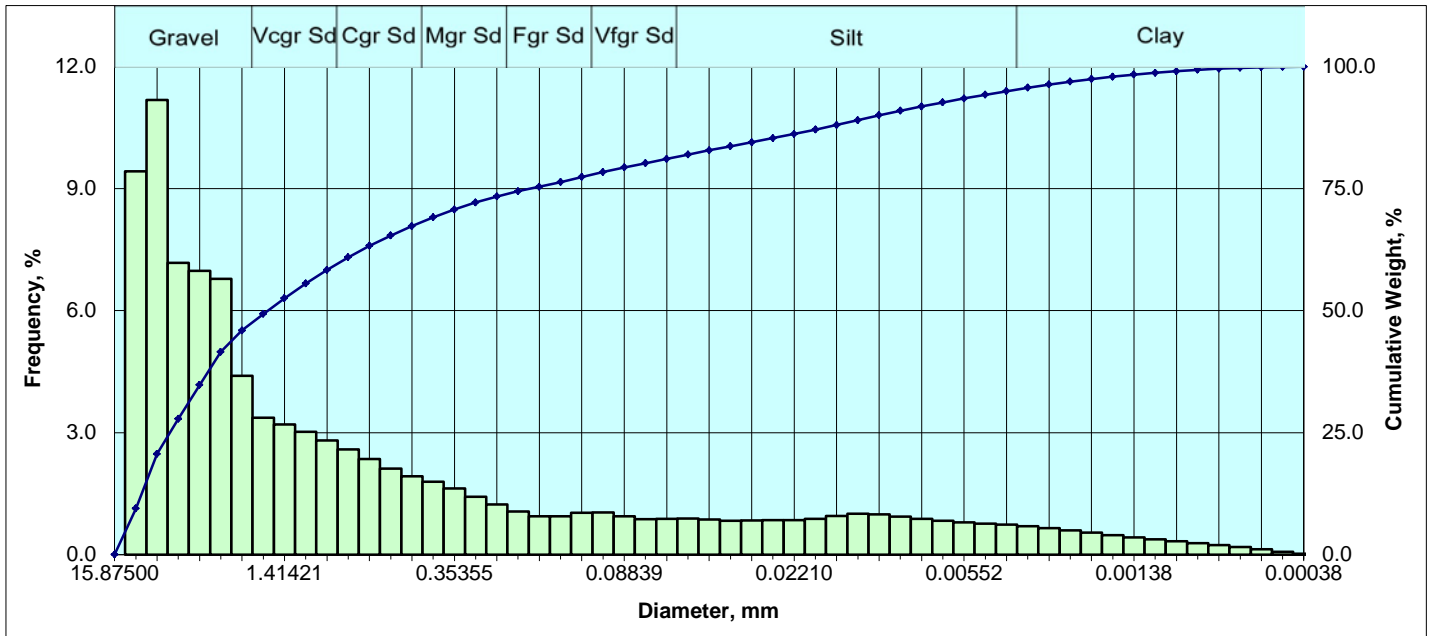
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	3.784	3.78
	6	0.132425	3.36359	-1.75	2.375	6.16
	7	0.111355	2.82843	-1.50	2.999	9.16
	8	0.093638	2.37841	-1.25	3.623	12.78
	10	0.078740	2.00000	-1.00	4.066	16.85
V Crse Sand	12	0.066212	1.68179	-0.75	3.261	20.11
	14	0.055678	1.41421	-0.50	3.495	23.60
	16	0.046819	1.18921	-0.25	3.680	27.28
	18	0.039370	1.00000	0.00	3.709	30.99
Coarse Sand	20	0.033106	0.84090	0.25	3.614	34.61
	25	0.027839	0.70711	0.50	3.387	37.99
	30	0.023410	0.59460	0.75	3.044	41.04
	35	0.019685	0.50000	1.00	2.626	43.66
	40	0.016553	0.42045	1.25	2.208	45.87
Medium Sand	45	0.013919	0.35355	1.50	1.880	47.75
	50	0.011705	0.29730	1.75	1.701	49.45
	60	0.009843	0.25000	2.00	1.579	51.03
	70	0.008277	0.21022	2.25	1.361	52.39
Fine Sand	80	0.006960	0.17678	2.50	1.116	53.51
	100	0.005852	0.14865	2.75	1.130	54.64
	120	0.004921	0.12500	3.00	1.358	56.00
	140	0.004138	0.10511	3.25	1.440	57.44
V. Fine Sand	170	0.003480	0.08839	3.50	1.315	58.75
	200	0.002926	0.07433	3.75	1.232	59.99
	230	0.002461	0.06250	4.00	1.290	61.28
	270	0.002069	0.05256	4.25	1.360	62.64
	325	0.001740	0.04419	4.50	1.370	64.01
Silt	400	0.001463	0.03716	4.75	1.403	65.41
	450	0.001230	0.03125	5.00	1.513	66.92
	500	0.001035	0.02628	5.25	1.619	68.54
	635	0.000870	0.02210	5.50	1.686	70.23
		0.000732	0.01858	5.75	1.798	72.02
		0.000615	0.01562	6.00	1.994	74.02
		0.000517	0.01314	6.25	2.170	76.19
		0.000435	0.01105	6.50	2.175	78.36
		0.000366	0.00929	6.75	2.077	80.44
		0.000308	0.00781	7.00	1.957	82.40
		0.000259	0.00657	7.25	1.845	84.24
		0.000217	0.00552	7.50	1.748	85.99
		0.000183	0.00465	7.75	1.664	87.65
	0.000154	0.00391	8.00	1.591	89.24	
Clay		0.000129	0.00328	8.25	1.504	90.75
		0.000109	0.00276	8.50	1.398	92.15
		0.000091	0.00232	8.75	1.274	93.42
		0.000077	0.00195	9.00	1.142	94.56
		0.000065	0.00164	9.25	1.011	95.57
		0.000054	0.00138	9.50	0.893	96.47
		0.000046	0.00116	9.75	0.793	97.26
		0.000038	0.00098	10.00	0.702	97.96
		0.000032	0.00082	10.25	0.616	98.58
		0.000027	0.00069	10.50	0.520	99.10
		0.000023	0.00058	10.75	0.413	99.51
		0.000019	0.00049	11.00	0.293	99.80
		0.000016	0.00041	11.25	0.158	99.96
		0.000015	0.00038	11.50	0.039	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Medium sand sized		
(in)	0.0111	0.0111	0.0111
(mm)	0.2809	0.2809	0.2809
Mean	Fine sand sized		
(in)	0.0264	0.0047	0.0062
(mm)	0.6717	0.1183	0.1578
Sorting	V. Poor		
	9.573	4.135	3.731
Skewness	Strongly fine skewed		
	0.494	0.431	0.313
Kurtosis	Platykurtic		
	0.242	0.328	0.690
Component Percentages			
Gravel	Sand	Silt	Clay
16.85	44.43	27.97	10.76
			Silt + Clay
			38.72
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.1447	3.6742	-1.8774
10	0.1072	2.7239	-1.4457
16	0.0818	2.0789	-1.0558
25	0.0523	1.3289	-0.4102
40	0.0249	0.6330	0.6598
50	0.0111	0.2809	1.8318
75	0.0006	0.0145	6.1078
84	0.0003	0.0067	7.2147
90	0.0001	0.0036	8.1203
95	0.0001	0.0018	9.1030

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



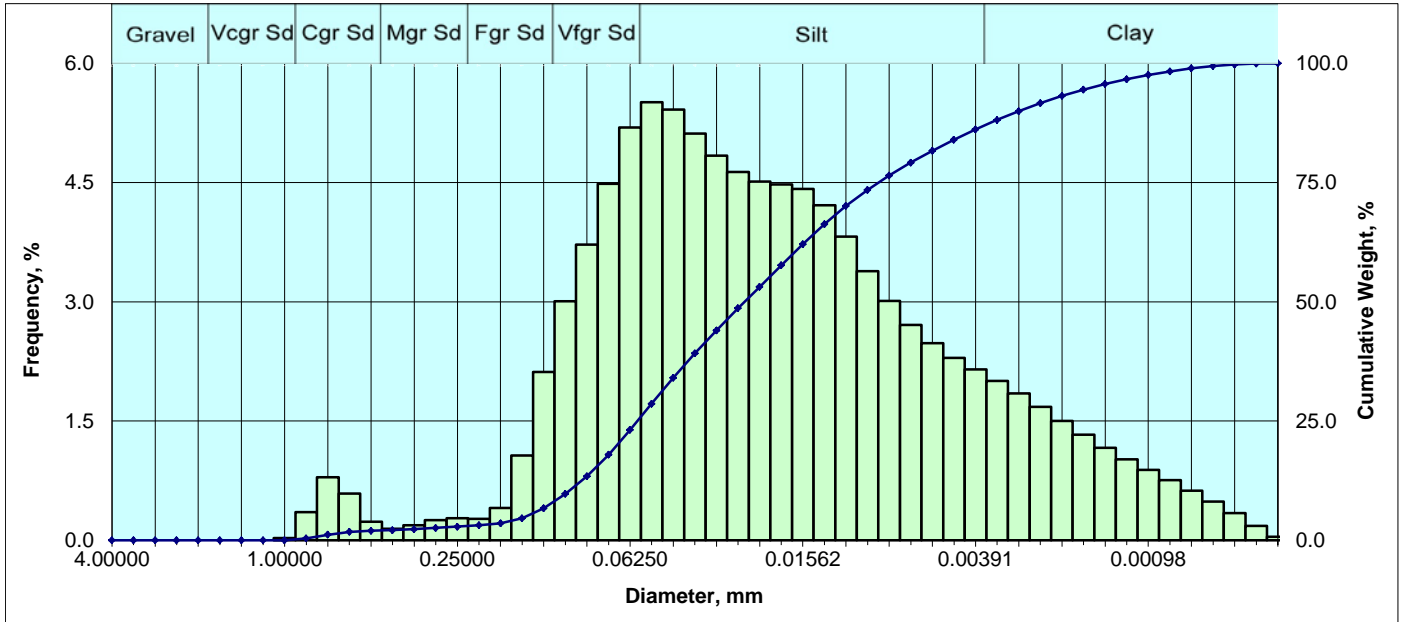
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	0.000	0.000
		0.375000	9.525000	-3.25	9.426	9.426
	5	0.157480	4.000000	-2.00	11.186	20.611
	6	0.132425	3.36359	-1.75	7.179	27.791
	7	0.111355	2.82843	-1.50	6.982	34.773
V Crse Sand	8	0.093638	2.37841	-1.25	6.786	41.559
	10	0.078740	2.00000	-1.00	4.400	45.959
	12	0.066212	1.68179	-0.75	3.370	49.328
	14	0.055678	1.41421	-0.50	3.203	52.531
Coarse Sand	16	0.046819	1.18921	-0.25	3.017	55.549
	18	0.039370	1.00000	0.00	2.808	58.356
	20	0.033106	0.84090	0.25	2.589	60.945
Medium Sand	25	0.027839	0.70711	0.50	2.353	63.298
	30	0.023410	0.59460	0.75	2.113	65.411
	35	0.019685	0.50000	1.00	1.927	67.337
	40	0.016553	0.42045	1.25	1.790	69.128
Fine Sand	45	0.013919	0.35355	1.50	1.626	70.753
	50	0.011705	0.29730	1.75	1.425	72.178
	60	0.009843	0.25000	2.00	1.232	73.410
V. Fine Sand	70	0.008277	0.21022	2.25	1.063	74.473
	80	0.006960	0.17678	2.50	0.941	75.414
	100	0.005852	0.14865	2.75	0.946	76.360
	120	0.004921	0.12500	3.00	1.029	77.389
Silt	140	0.004138	0.10511	3.25	1.033	78.422
	170	0.003480	0.08839	3.50	0.941	79.362
	200	0.002926	0.07433	3.75	0.872	80.234
	230	0.002461	0.06250	4.00	0.877	81.111
	270	0.002069	0.05256	4.25	0.888	81.999
	325	0.001740	0.04419	4.50	0.863	82.862
	400	0.001463	0.03716	4.75	0.834	83.696
	450	0.001230	0.03125	5.00	0.836	84.532
	500	0.001035	0.02628	5.25	0.844	85.376
	635	0.000870	0.02210	5.50	0.849	86.225
Clay		0.000732	0.01858	5.75	0.881	87.107
		0.000615	0.01562	6.00	0.949	88.056
		0.000517	0.01314	6.25	1.003	89.059
		0.000435	0.01105	6.50	0.987	90.046
		0.000366	0.00929	6.75	0.935	90.981
		0.000308	0.00781	7.00	0.881	91.861
		0.000259	0.00657	7.25	0.834	92.695
		0.000217	0.00552	7.50	0.796	93.491
		0.000183	0.00465	7.75	0.764	94.256
		0.000154	0.00391	8.00	0.736	94.991
		0.000129	0.00328	8.25	0.700	95.691
		0.000109	0.00276	8.50	0.654	96.346
		0.000091	0.00232	8.75	0.599	96.945
		0.000077	0.00195	9.00	0.539	97.483
		0.000065	0.00164	9.25	0.478	97.961
	0.000054	0.00138	9.50	0.421	98.383	
	0.000046	0.00116	9.75	0.372	98.755	
	0.000038	0.00098	10.00	0.326	99.080	
	0.000032	0.00082	10.25	0.282	99.362	
	0.000027	0.00069	10.50	0.235	99.598	
	0.000023	0.00058	10.75	0.185	99.783	
	0.000019	0.00049	11.00	0.130	99.913	
	0.000016	0.00041	11.25	0.070	99.983	
	0.000015	0.00038	11.50	0.017	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0640	0.0640	0.0640	
(mm)	1.6257	1.6257	1.6257	
Mean	Coarse sand sized			
(in)	0.0749	0.0185	0.0279	
(mm)	1.9012	0.4688	0.7096	
Sorting	V. Poor			
	4.342	3.743	3.636	
Skewness	Strongly fine skewed			
	0.512	0.769	0.487	
Kurtosis	Lepokurtic			
	0.185	0.556	1.127	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
45.96	35.15	13.88	5.01	18.89
Percentile [Weight, %]	Particle Diameter			
	(in.)	(mm)	(phi)	
5	0.4924	12.5065	-3.6446	
10	0.3638	9.2413	-3.2081	
16	0.2472	6.2777	-2.6502	
25	0.1422	3.6110	-1.8524	
40	0.0977	2.4818	-1.3114	
50	0.0640	1.6257	-0.7011	
75	0.0075	0.1915	2.3846	
84	0.0014	0.0350	4.8359	
90	0.0004	0.0111	6.4875	
95	0.0002	0.0039	8.0028	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



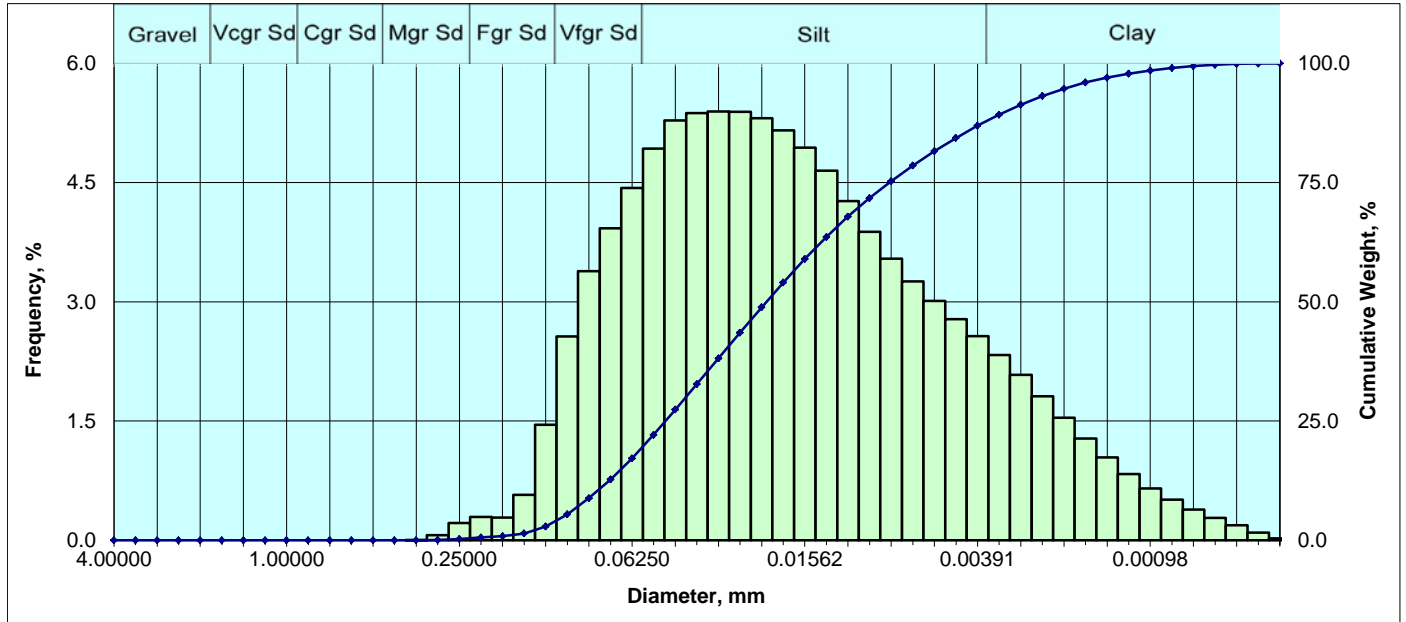
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.028	0.03
Coarse Sand	20	0.033106	0.84090	0.25	0.355	0.38
	25	0.027839	0.70711	0.50	0.792	1.18
	30	0.023410	0.59460	0.75	0.589	1.76
	35	0.019685	0.50000	1.00	0.236	2.00
Medium Sand	40	0.016553	0.42045	1.25	0.144	2.14
	45	0.013919	0.35355	1.50	0.191	2.34
	50	0.011705	0.29730	1.75	0.254	2.59
	60	0.009843	0.25000	2.00	0.279	2.87
Fine Sand	70	0.008277	0.21022	2.25	0.271	3.14
	80	0.006960	0.17678	2.50	0.407	3.55
	100	0.005852	0.14865	2.75	1.066	4.61
	120	0.004921	0.12500	3.00	2.116	6.73
V. Fine Sand	140	0.004138	0.10511	3.25	3.008	9.74
	170	0.003480	0.08839	3.50	3.719	13.46
	200	0.002926	0.07433	3.75	4.485	17.94
	230	0.002461	0.06250	4.00	5.192	23.13
	Silt	270	0.002069	0.05256	4.25	5.512
325		0.001740	0.04419	4.50	5.419	34.06
400		0.001463	0.03716	4.75	5.118	39.18
450		0.001230	0.03125	5.00	4.840	44.02
500		0.001035	0.02628	5.25	4.635	48.66
635		0.000870	0.02210	5.50	4.515	53.17
		0.000732	0.01858	5.75	4.477	57.65
		0.000615	0.01562	6.00	4.422	62.07
		0.000517	0.01314	6.25	4.215	66.28
		0.000435	0.01105	6.50	3.819	70.10
		0.000366	0.00929	6.75	3.385	73.49
		0.000308	0.00781	7.00	3.010	76.50
		0.000259	0.00657	7.25	2.710	79.21
		0.000217	0.00552	7.50	2.479	81.69
		0.000183	0.00465	7.75	2.296	83.98
	0.000154	0.00391	8.00	2.150	86.13	
Clay		0.000129	0.00328	8.25	2.004	88.14
		0.000109	0.00276	8.50	1.848	89.98
		0.000091	0.00232	8.75	1.678	91.66
		0.000077	0.00195	9.00	1.502	93.16
		0.000065	0.00164	9.25	1.327	94.49
		0.000054	0.00138	9.50	1.165	95.66
		0.000046	0.00116	9.75	1.020	96.68
		0.000038	0.00098	10.00	0.885	97.56
		0.000032	0.00082	10.25	0.758	98.32
		0.000027	0.00069	10.50	0.626	98.95
		0.000023	0.00058	10.75	0.487	99.43
		0.000019	0.00049	11.00	0.341	99.77
		0.000016	0.00041	11.25	0.182	99.96
		0.000015	0.00038	11.50	0.044	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0250	0.0250	0.0250	
Mean	Silt sized			
(in)	0.0013	0.0008	0.0008	
(mm)	0.0338	0.0193	0.0211	
Sorting	V. Poor			
	2.630	2.058	2.023	
Skewness	Finely skewed			
	0.898	0.366	0.206	
Kurtosis	Mesokurtic			
	0.250	0.594	0.964	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	23.13	63.00	13.87	76.87
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0057	0.1443	2.7926	
10	0.0041	0.1039	3.2663	
16	0.0032	0.0804	3.6364	
25	0.0023	0.0591	4.0799	
40	0.0014	0.0362	4.7893	
50	0.0010	0.0250	5.3200	
75	0.0003	0.0085	6.8701	
84	0.0002	0.0046	7.7518	
90	0.0001	0.0028	8.5021	
95	0.0001	0.0015	9.3538	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



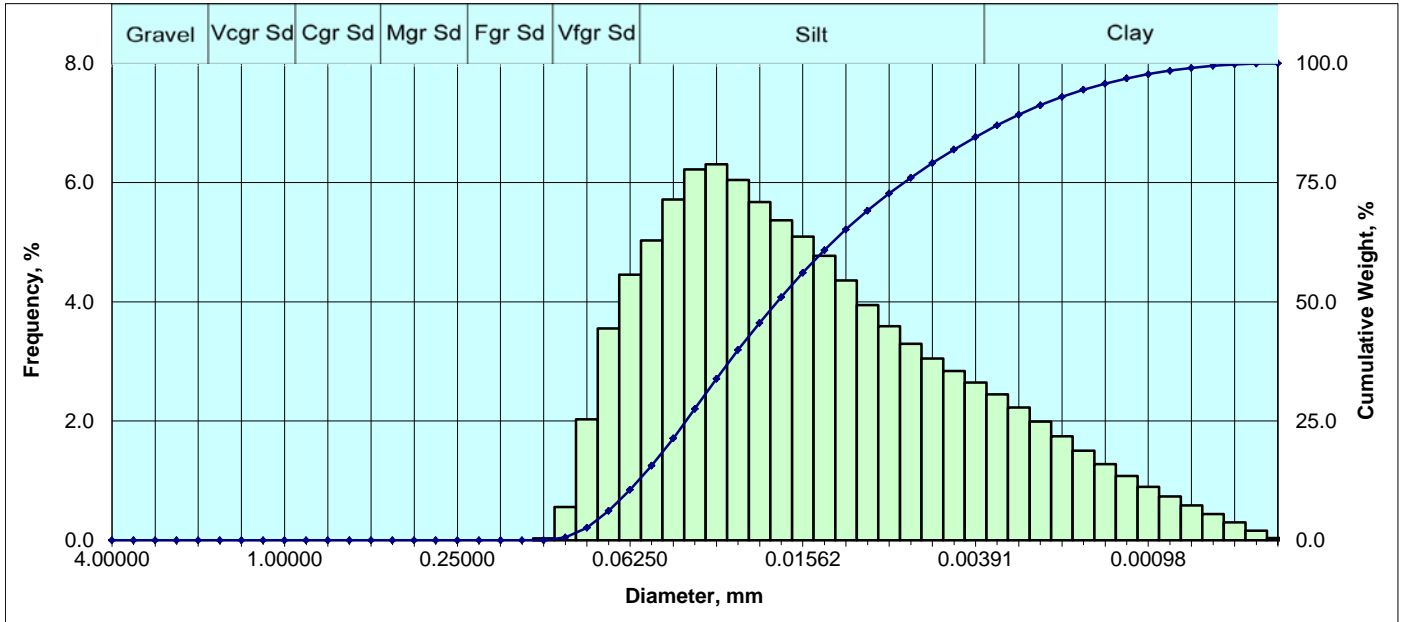
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.003	0.00
	50	0.011705	0.29730	1.75	0.063	0.07
	60	0.009843	0.25000	2.00	0.218	0.28
Fine Sand	70	0.008277	0.21022	2.25	0.294	0.58
	80	0.006960	0.17678	2.50	0.285	0.86
	100	0.005852	0.14865	2.75	0.571	1.43
	120	0.004921	0.12500	3.00	1.454	2.89
V. Fine Sand	140	0.004138	0.10511	3.25	2.565	5.45
	170	0.003480	0.08839	3.50	3.386	8.84
	200	0.002926	0.07433	3.75	3.925	12.76
	230	0.002461	0.06250	4.00	4.431	17.19
	Silt	270	0.002069	0.05256	4.25	4.929
325		0.001740	0.04419	4.50	5.280	27.40
400		0.001463	0.03716	4.75	5.374	32.78
450		0.001230	0.03125	5.00	5.395	38.17
500		0.001035	0.02628	5.25	5.391	43.56
635		0.000870	0.02210	5.50	5.312	48.87
		0.000732	0.01858	5.75	5.155	54.03
		0.000615	0.01562	6.00	4.940	58.97
		0.000517	0.01314	6.25	4.651	63.62
		0.000435	0.01105	6.50	4.265	67.89
		0.000366	0.00929	6.75	3.879	71.77
		0.000308	0.00781	7.00	3.544	75.31
		0.000259	0.00657	7.25	3.258	78.57
		0.000217	0.00552	7.50	3.010	81.58
		0.000183	0.00465	7.75	2.783	84.36
	0.000154	0.00391	8.00	2.567	86.93	
Clay		0.000129	0.00328	8.25	2.333	89.26
		0.000109	0.00276	8.50	2.080	91.34
		0.000091	0.00232	8.75	1.814	93.15
		0.000077	0.00195	9.00	1.544	94.70
		0.000065	0.00164	9.25	1.282	95.98
		0.000054	0.00138	9.50	1.043	97.02
		0.000046	0.00116	9.75	0.832	97.86
		0.000038	0.00098	10.00	0.654	98.51
		0.000032	0.00082	10.25	0.510	99.02
		0.000027	0.00069	10.50	0.388	99.41
		0.000023	0.00058	10.75	0.283	99.69
		0.000019	0.00049	11.00	0.188	99.88
		0.000016	0.00041	11.25	0.098	99.98
		0.000015	0.00038	11.50	0.024	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0213	0.0213	0.0213	
Mean	Silt sized			
(in)	0.0011	0.0007	0.0007	
(mm)	0.0280	0.0177	0.0188	
Sorting	Poor			
	2.458	1.893	1.833	
Skewness	Finely skewed			
	0.915	0.305	0.170	
Kurtosis	Mesokurtic			
	0.247	0.546	0.924	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	17.19	69.73	13.07	82.81
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0043	0.1086	3.2027	
10	0.0033	0.0842	3.5696	
16	0.0026	0.0657	3.9283	
25	0.0019	0.0480	4.3808	
40	0.0012	0.0296	5.0800	
50	0.0008	0.0213	5.5510	
75	0.0003	0.0079	6.9764	
84	0.0002	0.0048	7.7150	
90	0.0001	0.0031	8.3340	
95	0.0001	0.0019	9.0551	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



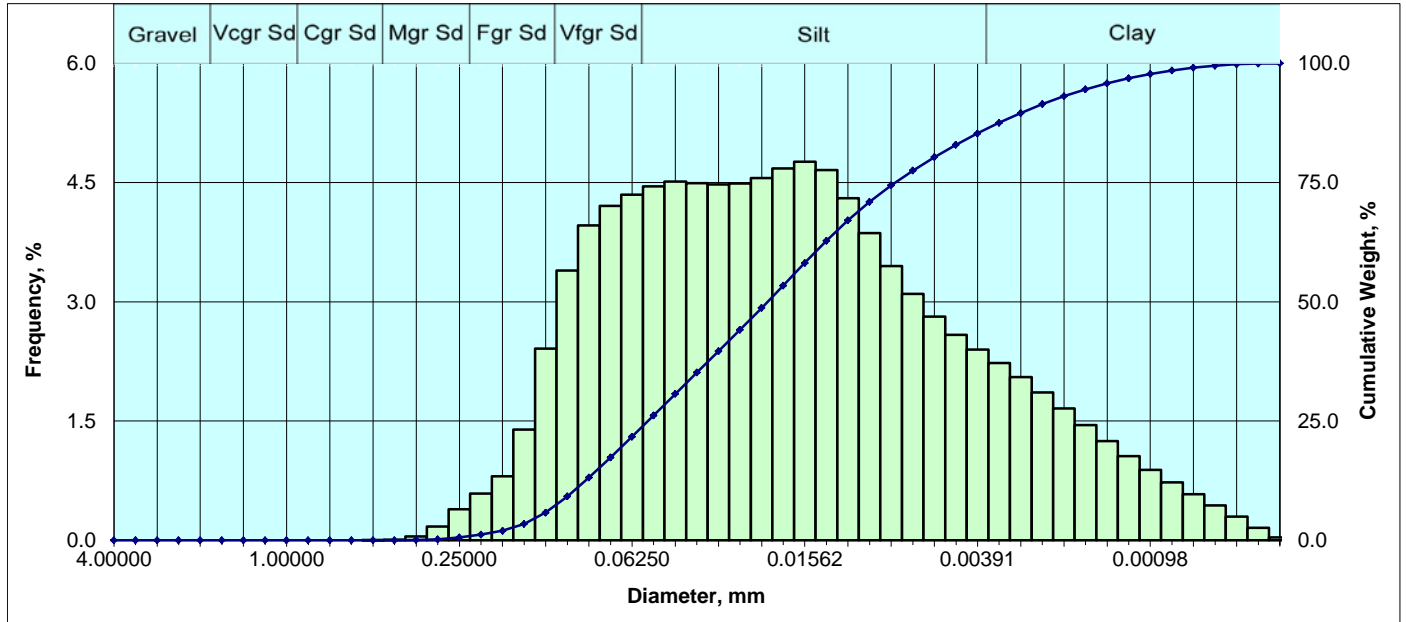
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.031	0.03
V. Fine Sand	140	0.004138	0.10511	3.25	0.557	0.59
	170	0.003480	0.08839	3.50	2.030	2.62
	200	0.002926	0.07433	3.75	3.552	6.17
	230	0.002461	0.06250	4.00	4.455	10.62
	Silt	270	0.002069	0.05256	4.25	5.028
325		0.001740	0.04419	4.50	5.716	21.37
400		0.001463	0.03716	4.75	6.219	27.59
450		0.001230	0.03125	5.00	6.305	33.89
500		0.001035	0.02628	5.25	6.042	39.93
635		0.000870	0.02210	5.50	5.675	45.61
		0.000732	0.01858	5.75	5.367	50.98
		0.000615	0.01562	6.00	5.095	56.07
		0.000517	0.01314	6.25	4.771	60.84
		0.000435	0.01105	6.50	4.358	65.20
		0.000366	0.00929	6.75	3.946	69.15
		0.000308	0.00781	7.00	3.590	72.74
		0.000259	0.00657	7.25	3.296	76.03
	0.000217	0.00552	7.50	3.051	79.08	
	0.000183	0.00465	7.75	2.838	81.92	
	0.000154	0.00391	8.00	2.648	84.57	
Clay		0.000129	0.00328	8.25	2.446	87.01
		0.000109	0.00276	8.50	2.226	89.24
		0.000091	0.00232	8.75	1.990	91.23
		0.000077	0.00195	9.00	1.746	92.98
		0.000065	0.00164	9.25	1.505	94.48
		0.000054	0.00138	9.50	1.280	95.76
		0.000046	0.00116	9.75	1.077	96.84
		0.000038	0.00098	10.00	0.895	97.73
		0.000032	0.00082	10.25	0.735	98.47
		0.000027	0.00069	10.50	0.586	99.06
		0.000023	0.00058	10.75	0.443	99.50
		0.000019	0.00049	11.00	0.303	99.80
		0.000016	0.00041	11.25	0.160	99.96
		0.000015	0.00038	11.50	0.039	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0192	0.0192	0.0192	
Mean	Silt sized			
(in)	0.0009	0.0006	0.0006	
(mm)	0.0235	0.0145	0.0160	
Sorting	Poor			
	2.400	1.839	1.781	
Skewness	Finely skewed			
	0.869	0.437	0.251	
Kurtosis	Mesokurtic			
	0.269	0.545	0.922	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	10.62	73.94	15.43	89.38
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0031	0.0790	3.6628	
10	0.0025	0.0642	3.9622	
16	0.0020	0.0520	4.2640	
25	0.0016	0.0401	4.6407	
40	0.0010	0.0262	5.2527	
50	0.0008	0.0192	5.7012	
75	0.0003	0.0070	7.1669	
84	0.0002	0.0041	7.9425	
90	0.0001	0.0026	8.5903	
95	0.0001	0.0015	9.3458	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



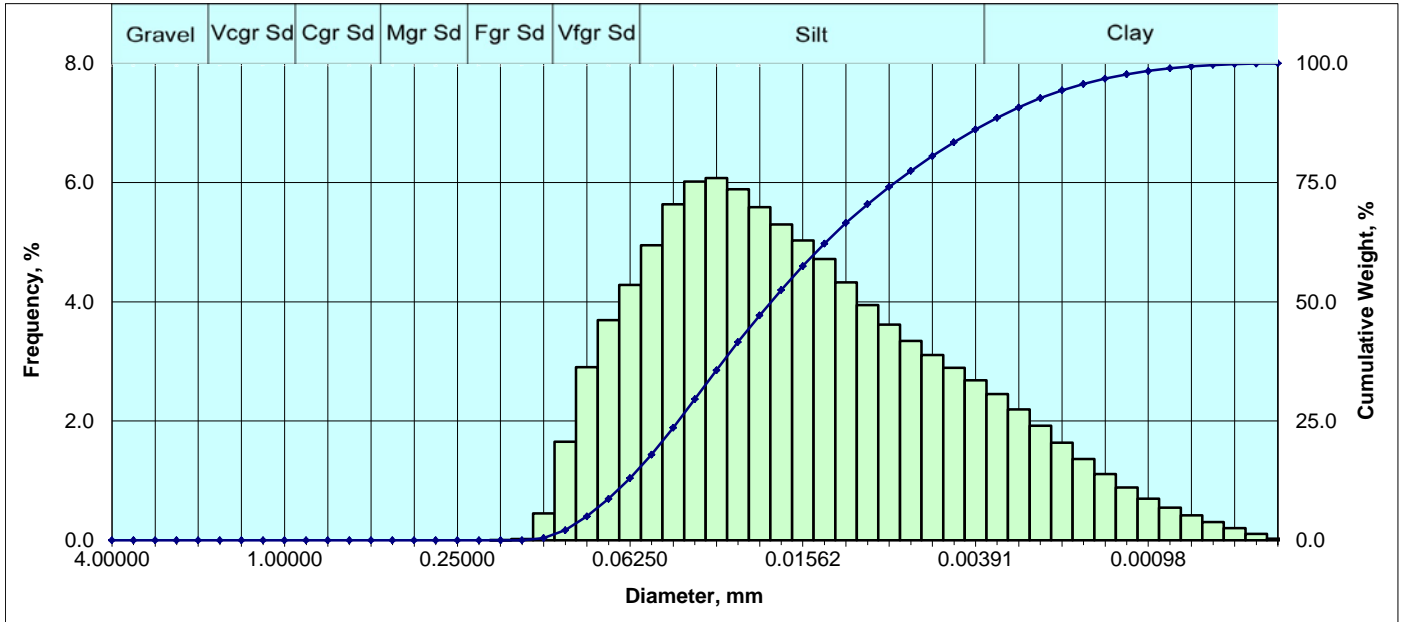
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.007	0.01
	45	0.013919	0.35355	1.50	0.049	0.06
	50	0.011705	0.29730	1.75	0.175	0.23
	60	0.009843	0.25000	2.00	0.389	0.62
Fine Sand	70	0.008277	0.21022	2.25	0.589	1.21
	80	0.006960	0.17678	2.50	0.806	2.01
	100	0.005852	0.14865	2.75	1.393	3.41
	120	0.004921	0.12500	3.00	2.410	5.82
V. Fine Sand	140	0.004138	0.10511	3.25	3.392	9.21
	170	0.003480	0.08839	3.50	3.963	13.17
	200	0.002926	0.07433	3.75	4.206	17.38
	230	0.002461	0.06250	4.00	4.347	21.73
	Silt	270	0.002069	0.05256	4.25	4.452
325		0.001740	0.04419	4.50	4.514	30.69
400		0.001463	0.03716	4.75	4.493	35.18
450		0.001230	0.03125	5.00	4.475	39.66
500		0.001035	0.02628	5.25	4.489	44.15
635		0.000870	0.02210	5.50	4.556	48.70
		0.000732	0.01858	5.75	4.678	53.38
		0.000615	0.01562	6.00	4.762	58.14
		0.000517	0.01314	6.25	4.657	62.80
		0.000435	0.01105	6.50	4.303	67.10
		0.000366	0.00929	6.75	3.863	70.97
		0.000308	0.00781	7.00	3.450	74.42
		0.000259	0.00657	7.25	3.098	77.52
Clay		0.000217	0.00552	7.50	2.813	80.33
		0.000183	0.00465	7.75	2.583	82.91
		0.000154	0.00391	8.00	2.401	85.31
		0.000129	0.00328	8.25	2.229	87.54
		0.000109	0.00276	8.50	2.052	89.59
		0.000091	0.00232	8.75	1.861	91.45
		0.000077	0.00195	9.00	1.659	93.11
		0.000065	0.00164	9.25	1.451	94.57
		0.000054	0.00138	9.50	1.250	95.81
		0.000046	0.00116	9.75	1.061	96.88
		0.000038	0.00098	10.00	0.886	97.76
		0.000032	0.00082	10.25	0.729	98.49
		0.000027	0.00069	10.50	0.580	99.07
	0.000023	0.00058	10.75	0.437	99.51	
	0.000019	0.00049	11.00	0.298	99.81	
	0.000016	0.00041	11.25	0.157	99.96	
	0.000015	0.00038	11.50	0.038	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0211	0.0211	0.0211	
Mean	Silt sized			
(in)	0.0012	0.0007	0.0008	
(mm)	0.0314	0.0184	0.0193	
Sorting	V. Poor			
	2.698	2.097	2.022	
Skewness	Finely skewed			
	0.968	0.265	0.133	
Kurtosis	Mesokurtic			
	0.240	0.531	0.919	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	21.73	63.59	14.69	78.27
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0052	0.1330	2.9103	
10	0.0040	0.1018	3.2965	
16	0.0031	0.0789	3.6632	
25	0.0022	0.0552	4.1796	
40	0.0012	0.0309	5.0175	
50	0.0008	0.0211	5.5650	
75	0.0003	0.0076	7.0438	
84	0.0002	0.0043	7.8579	
90	0.0001	0.0027	8.5510	
95	0.0001	0.0016	9.3322	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



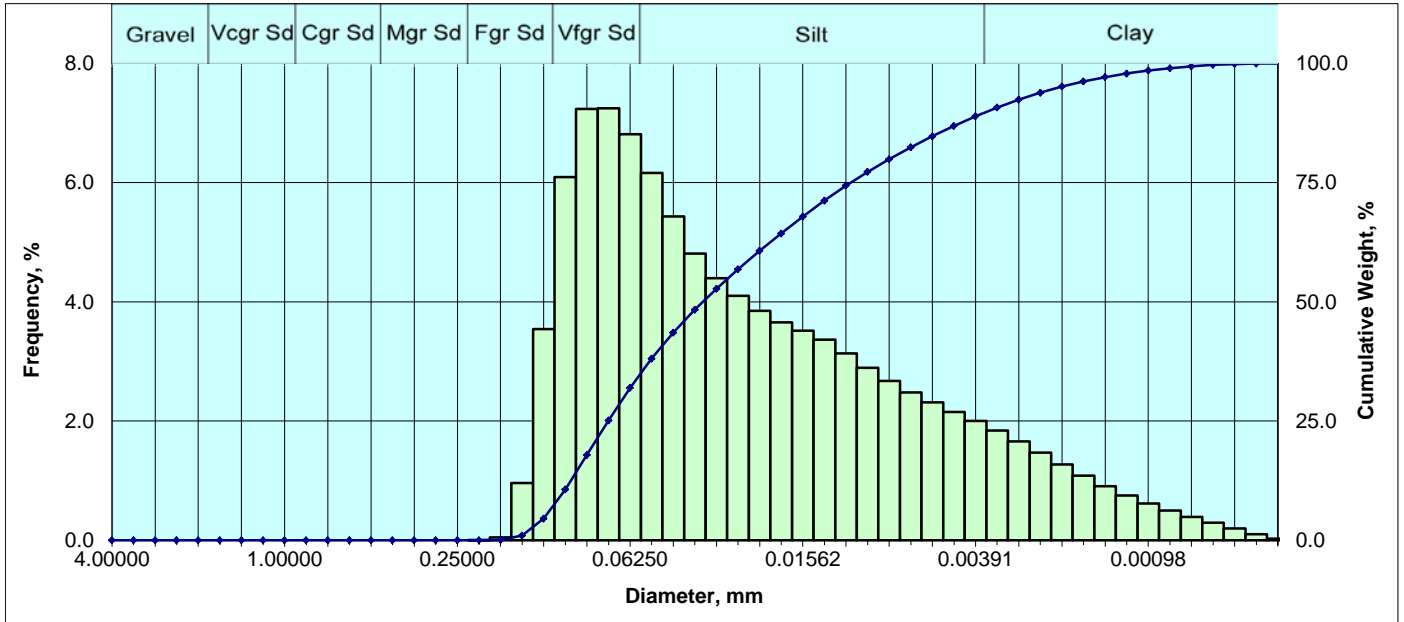
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.023	0.02
	120	0.004921	0.12500	3.00	0.451	0.47
V. Fine Sand	140	0.004138	0.10511	3.25	1.655	2.13
	170	0.003480	0.08839	3.50	2.902	5.03
	200	0.002926	0.07433	3.75	3.693	8.72
	230	0.002461	0.06250	4.00	4.281	13.01
	Silt	270	0.002069	0.05256	4.25	4.949
325		0.001740	0.04419	4.50	5.638	23.59
400		0.001463	0.03716	4.75	6.016	29.61
450		0.001230	0.03125	5.00	6.074	35.68
500		0.001035	0.02628	5.25	5.889	41.57
635		0.000870	0.02210	5.50	5.588	47.16
		0.000732	0.01858	5.75	5.297	52.46
		0.000615	0.01562	6.00	5.028	57.48
		0.000517	0.01314	6.25	4.718	62.20
		0.000435	0.01105	6.50	4.328	66.53
		0.000366	0.00929	6.75	3.947	70.48
		0.000308	0.00781	7.00	3.620	74.10
		0.000259	0.00657	7.25	3.345	77.44
	0.000217	0.00552	7.50	3.109	80.55	
	0.000183	0.00465	7.75	2.892	83.44	
	0.000154	0.00391	8.00	2.684	86.13	
Clay		0.000129	0.00328	8.25	2.452	88.58
		0.000109	0.00276	8.50	2.196	90.78
		0.000091	0.00232	8.75	1.921	92.70
		0.000077	0.00195	9.00	1.639	94.33
		0.000065	0.00164	9.25	1.363	95.70
		0.000054	0.00138	9.50	1.111	96.81
		0.000046	0.00116	9.75	0.888	97.70
		0.000038	0.00098	10.00	0.699	98.40
		0.000032	0.00082	10.25	0.547	98.94
		0.000027	0.00069	10.50	0.417	99.36
		0.000023	0.00058	10.75	0.305	99.66
		0.000019	0.00049	11.00	0.203	99.87
		0.000016	0.00041	11.25	0.106	99.97
		0.000015	0.00038	11.50	0.026	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0202	0.0202	0.0202	
Mean	Silt sized			
(in)	0.0010	0.0006	0.0007	
(mm)	0.0250	0.0159	0.0172	
Sorting	Poor			
	2.386	1.826	1.765	
Skewness	Finely skewed			
	0.882	0.371	0.215	
Kurtosis	Mesokurtic			
	0.258	0.539	0.918	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	13.01	73.12	13.87	86.99
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0035	0.0886	3.4970	
10	0.0028	0.0708	3.8201	
16	0.0022	0.0565	4.1460	
25	0.0017	0.0425	4.5547	
40	0.0011	0.0276	5.1789	
50	0.0008	0.0202	5.6287	
75	0.0003	0.0075	7.0633	
84	0.0002	0.0045	7.7985	
90	0.0001	0.0029	8.4067	
95	0.0001	0.0018	9.1165	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



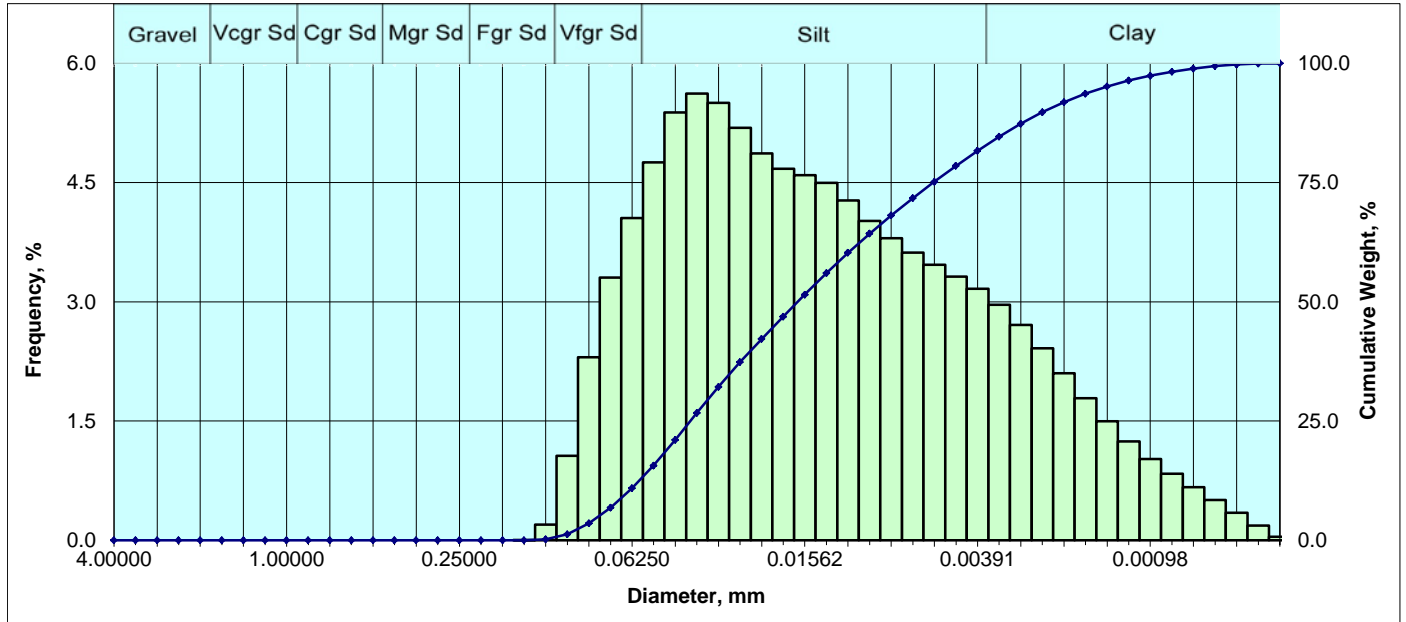
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.051	0.05
	100	0.005852	0.14865	2.75	0.964	1.01
	120	0.004921	0.12500	3.00	3.543	4.56
V. Fine Sand	140	0.004138	0.10511	3.25	6.091	10.65
	170	0.003480	0.08839	3.50	7.238	17.89
	200	0.002926	0.07433	3.75	7.248	25.13
	230	0.002461	0.06250	4.00	6.809	31.94
	Silt	270	0.002069	0.05256	4.25	6.162
325		0.001740	0.04419	4.50	5.430	43.54
400		0.001463	0.03716	4.75	4.810	48.35
450		0.001230	0.03125	5.00	4.397	52.74
500		0.001035	0.02628	5.25	4.102	56.84
635		0.000870	0.02210	5.50	3.848	60.69
		0.000732	0.01858	5.75	3.653	64.35
		0.000615	0.01562	6.00	3.515	67.86
		0.000517	0.01314	6.25	3.364	71.23
		0.000435	0.01105	6.50	3.136	74.36
		0.000366	0.00929	6.75	2.894	77.26
		0.000308	0.00781	7.00	2.675	79.93
Clay			0.000259	0.00657	7.25	2.482
		0.000217	0.00552	7.50	2.312	84.73
		0.000183	0.00465	7.75	2.154	86.88
		0.000154	0.00391	8.00	2.004	88.88
		0.000129	0.00328	8.25	1.839	90.72
		0.000109	0.00276	8.50	1.660	92.38
		0.000091	0.00232	8.75	1.469	93.85
		0.000077	0.00195	9.00	1.274	95.13
		0.000065	0.00164	9.25	1.084	96.21
		0.000054	0.00138	9.50	0.909	97.12
		0.000046	0.00116	9.75	0.752	97.87
		0.000038	0.00098	10.00	0.615	98.49
		0.000032	0.00082	10.25	0.498	98.98
		0.000027	0.00069	10.50	0.392	99.38
		0.000023	0.00058	10.75	0.294	99.67
	0.000019	0.00049	11.00	0.199	99.87	
	0.000016	0.00041	11.25	0.105	99.97	
	0.000015	0.00038	11.50	0.025	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0014	0.0014	0.0014	
(mm)	0.0349	0.0349	0.0349	
Mean	Silt sized			
(in)	0.0017	0.0009	0.0010	
(mm)	0.0426	0.0233	0.0267	
Sorting	Poor			
	2.645	1.993	1.899	
Skewness	Strongly fine skewed			
	0.807	0.580	0.341	
Kurtosis	Platykurtic			
	0.308	0.494	0.870	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	31.94	56.94	11.12	68.06
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0049	0.1236	3.0168	
10	0.0042	0.1072	3.2212	
16	0.0037	0.0927	3.4306	
25	0.0029	0.0746	3.7450	
40	0.0020	0.0496	4.3324	
50	0.0014	0.0349	4.8390	
75	0.0004	0.0107	6.5515	
84	0.0002	0.0059	7.4168	
90	0.0001	0.0035	8.1465	
95	0.0001	0.0020	8.9732	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



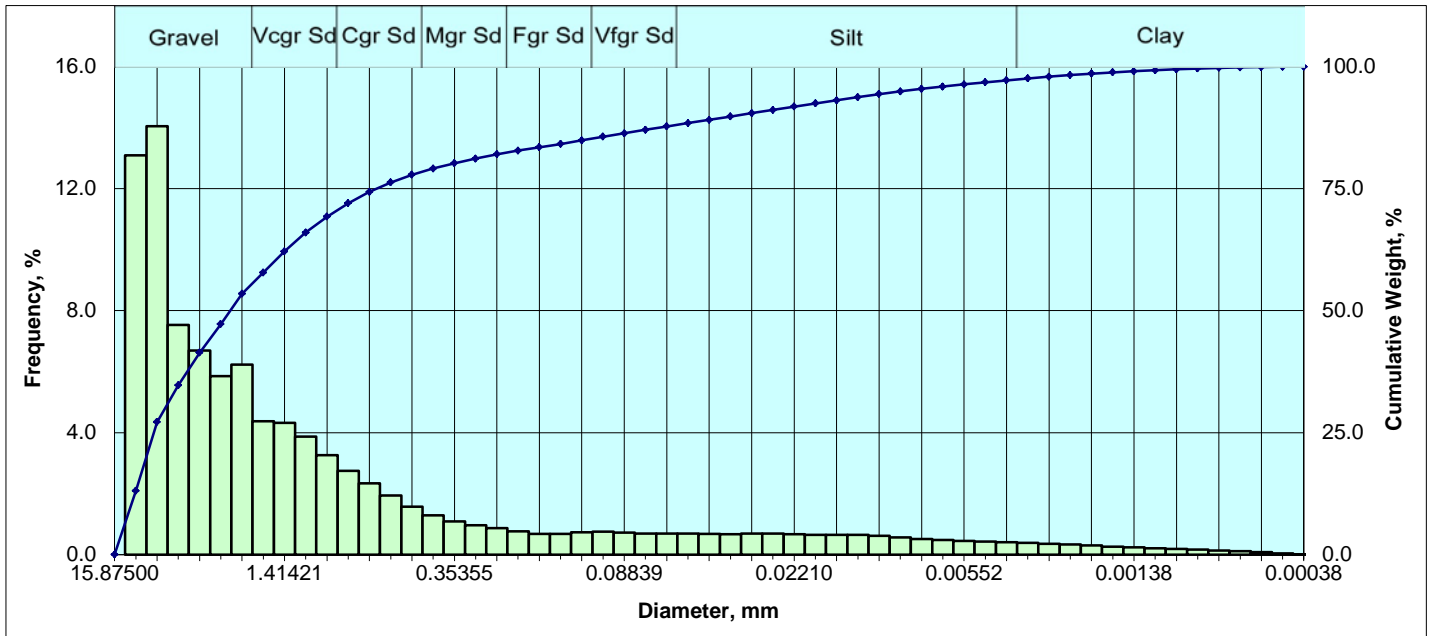
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.005	0.00
	120	0.004921	0.12500	3.00	0.197	0.20
V. Fine Sand	140	0.004138	0.10511	3.25	1.064	1.27
	170	0.003480	0.08839	3.50	2.302	3.57
	200	0.002926	0.07433	3.75	3.303	6.87
	230	0.002461	0.06250	4.00	4.053	10.92
	Silt	270	0.002069	0.05256	4.25	4.754
325		0.001740	0.04419	4.50	5.382	21.06
400		0.001463	0.03716	4.75	5.620	26.68
450		0.001230	0.03125	5.00	5.504	32.18
500		0.001035	0.02628	5.25	5.188	37.37
635		0.000870	0.02210	5.50	4.866	42.24
		0.000732	0.01858	5.75	4.676	46.91
		0.000615	0.01562	6.00	4.595	51.51
		0.000517	0.01314	6.25	4.498	56.01
		0.000435	0.01105	6.50	4.275	60.28
		0.000366	0.00929	6.75	4.020	64.30
		0.000308	0.00781	7.00	3.799	68.10
Clay			0.000259	0.00657	7.25	3.619
		0.000217	0.00552	7.50	3.466	75.18
		0.000183	0.00465	7.75	3.318	78.50
		0.000154	0.00391	8.00	3.166	81.67
		0.000129	0.00328	8.25	2.962	84.63
		0.000109	0.00276	8.50	2.708	87.34
		0.000091	0.00232	8.75	2.414	89.75
		0.000077	0.00195	9.00	2.100	91.85
		0.000065	0.00164	9.25	1.787	93.64
		0.000054	0.00138	9.50	1.498	95.14
		0.000046	0.00116	9.75	1.244	96.38
		0.000038	0.00098	10.00	1.024	97.41
		0.000032	0.00082	10.25	0.839	98.25
	0.000027	0.00069	10.50	0.669	98.91	
	0.000023	0.00058	10.75	0.507	99.42	
	0.000019	0.00049	11.00	0.348	99.77	
	0.000016	0.00041	11.25	0.184	99.96	
	0.000015	0.00038	11.50	0.045	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0166	0.0166	0.0166	
Mean	Silt sized			
(in)	0.0009	0.0005	0.0006	
(mm)	0.0224	0.0133	0.0143	
Sorting	Poor			
	2.653	1.965	1.872	
Skewness	Finely skewed			
	0.892	0.319	0.187	
Kurtosis	Platykurtic			
	0.268	0.494	0.855	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	10.92	70.75	18.33	89.08
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0032	0.0823	3.6031	
10	0.0026	0.0652	3.9391	
16	0.0020	0.0521	4.2638	
25	0.0015	0.0393	4.6707	
40	0.0009	0.0240	5.3797	
50	0.0007	0.0166	5.9131	
75	0.0002	0.0056	7.4855	
84	0.0001	0.0034	8.1930	
90	0.0001	0.0023	8.7772	
95	0.0001	0.0014	9.4749	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



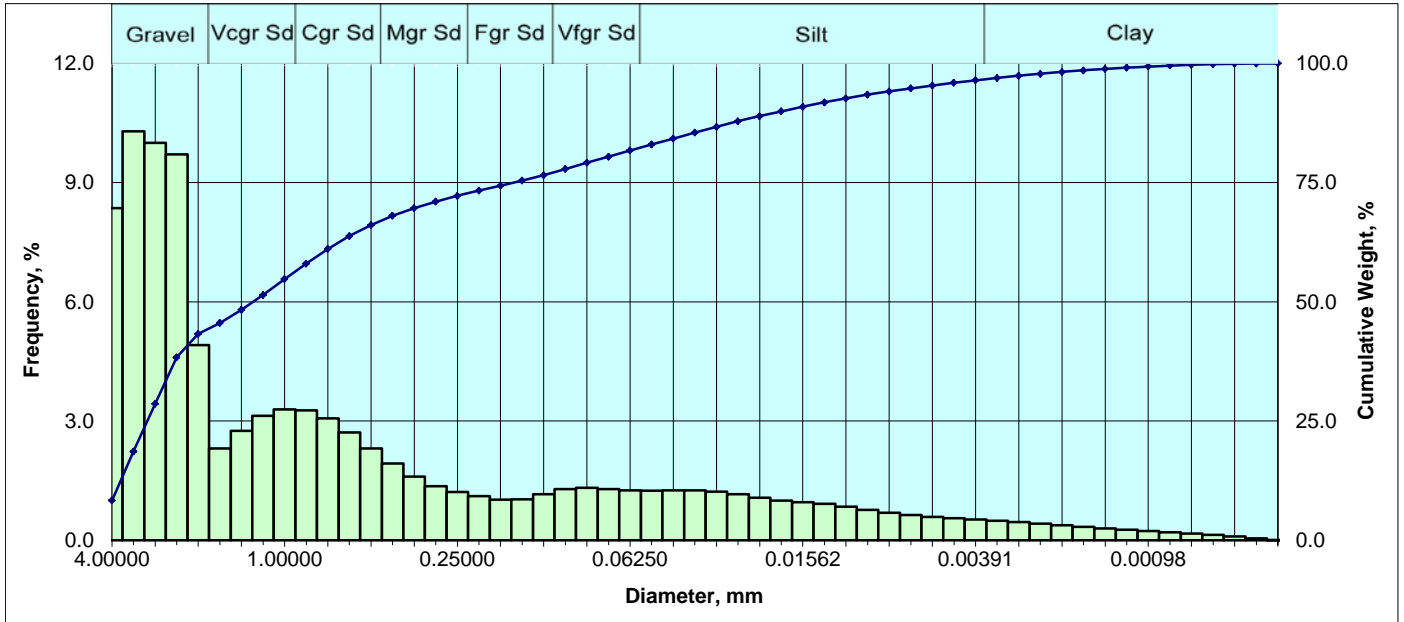
Particle Size Distribution							
	Diameter				Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]	
Granule		0.625000	15.87500	-3.99	0.000	0.000	
		0.375000	9.525000	-3.25	13.093	13.093	
	5	0.157480	4.00000	-2.00	14.055	27.148	
	6	0.132425	3.36359	-1.75	7.533	34.681	
	7	0.111355	2.82843	-1.50	6.691	41.372	
V Crse Sand	8	0.093638	2.37841	-1.25	5.848	47.220	
	10	0.078740	2.00000	-1.00	6.233	53.454	
	12	0.066212	1.68179	-0.75	4.369	57.822	
	14	0.055678	1.41421	-0.50	4.318	62.141	
	16	0.046819	1.18921	-0.25	3.868	66.009	
Coarse Sand	18	0.039370	1.00000	0.00	3.256	69.265	
	20	0.033106	0.84090	0.25	2.749	72.014	
	25	0.027839	0.70711	0.50	2.335	74.349	
	30	0.023410	0.59460	0.75	1.942	76.290	
	35	0.019685	0.50000	1.00	1.570	77.861	
Medium Sand	40	0.016553	0.42045	1.25	1.283	79.144	
	45	0.013919	0.35355	1.50	1.084	80.228	
	50	0.011705	0.29730	1.75	0.961	81.189	
	60	0.009843	0.25000	2.00	0.865	82.054	
	70	0.008277	0.21022	2.25	0.760	82.814	
Fine Sand	80	0.006960	0.17678	2.50	0.675	83.488	
	100	0.005852	0.14865	2.75	0.678	84.167	
	120	0.004921	0.12500	3.00	0.734	84.901	
	140	0.004138	0.10511	3.25	0.750	85.651	
	170	0.003480	0.08839	3.50	0.718	86.369	
V. Fine Sand	200	0.002926	0.07433	3.75	0.693	87.062	
	230	0.002461	0.06250	4.00	0.693	87.754	
	270	0.002069	0.05256	4.25	0.689	88.443	
	325	0.001740	0.04419	4.50	0.674	89.117	
	400	0.001463	0.03716	4.75	0.670	89.787	
Silt	450	0.001230	0.03125	5.00	0.685	90.472	
	500	0.001035	0.02628	5.25	0.688	91.160	
	635	0.000870	0.02210	5.50	0.666	91.826	
		0.000732	0.01858	5.75	0.647	92.473	
		0.000615	0.01562	6.00	0.650	93.123	
		0.000517	0.01314	6.25	0.650	93.774	
		0.000435	0.01105	6.50	0.615	94.389	
		0.000366	0.00929	6.75	0.563	94.952	
		0.000308	0.00781	7.00	0.515	95.467	
		0.000259	0.00657	7.25	0.476	95.944	
		0.000217	0.00552	7.50	0.446	96.389	
		0.000183	0.00465	7.75	0.422	96.811	
		0.000154	0.00391	8.00	0.403	97.214	
	Clay		0.000129	0.00328	8.25	0.382	97.596
			0.000109	0.00276	8.50	0.357	97.953
		0.000091	0.00232	8.75	0.327	98.281	
		0.000077	0.00195	9.00	0.295	98.576	
		0.000065	0.00164	9.25	0.263	98.839	
		0.000054	0.00138	9.50	0.234	99.073	
		0.000046	0.00116	9.75	0.208	99.282	
		0.000038	0.00098	10.00	0.185	99.466	
		0.000032	0.00082	10.25	0.162	99.628	
		0.000027	0.00069	10.50	0.136	99.764	
		0.000023	0.00058	10.75	0.108	99.872	
		0.000019	0.00049	11.00	0.076	99.949	
		0.000016	0.00041	11.25	0.041	99.990	
		0.000015	0.00038	11.50	0.010	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.0870	0.0870	0.0870	
(mm)	2.2097	2.2097	2.2097	
Mean	Very coarse sand sized			
(in)	0.1085	0.0450	0.0560	
(mm)	2.7569	1.1419	1.4230	
Sorting	V. Poor			
	2.690	2.876	3.032	
Skewness	Strongly fine skewed			
	0.815	0.923	0.418	
Kurtosis	Very leptokurtic			
	0.190	0.829	1.510	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
53.45	34.30	9.46	2.79	12.25
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.5295	13.4500	-3.7495	
10	0.4341	11.0250	-3.4627	
16	0.3300	8.3822	-3.0673	
25	0.1907	4.8444	-2.2763	
40	0.1157	2.9382	-1.5549	
50	0.0870	2.2097	-1.1438	
75	0.0264	0.6694	0.5791	
84	0.0061	0.1556	2.6844	
90	0.0014	0.0353	4.8232	
95	0.0004	0.0092	6.7716	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



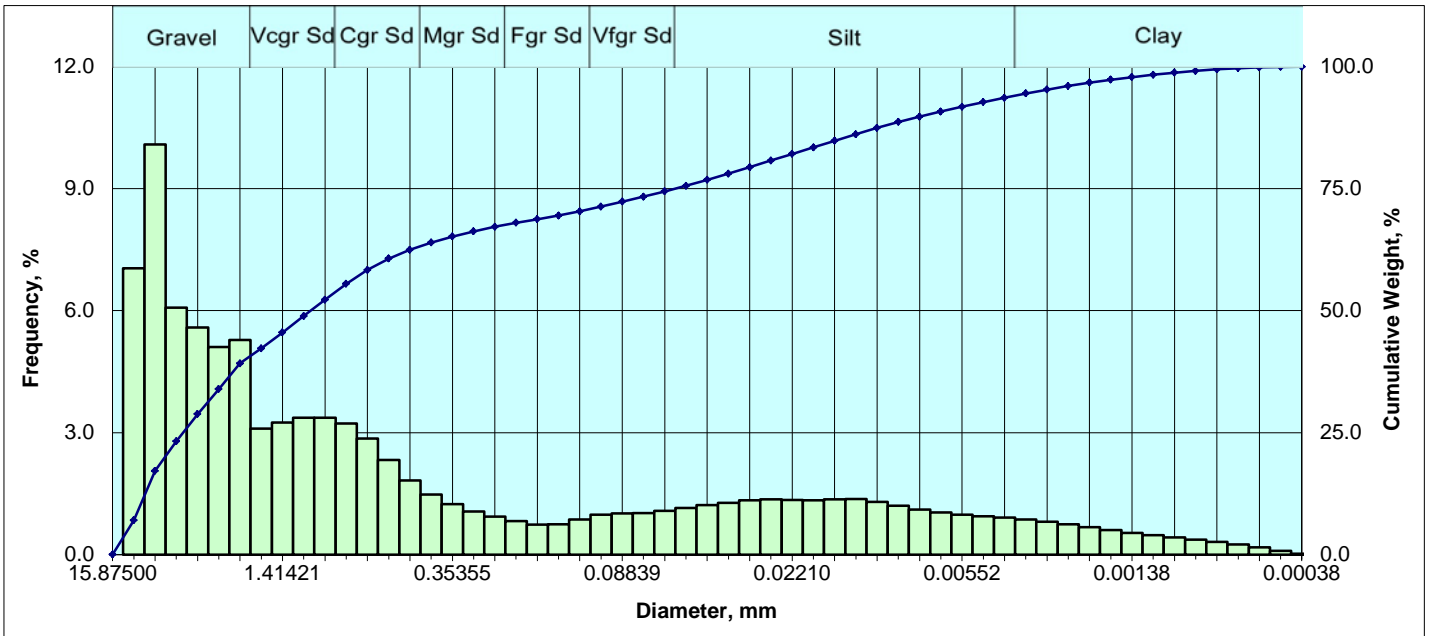
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	8.355	8.36
	6	0.132425	3.36359	-1.75	10.287	18.64
	7	0.111355	2.82843	-1.50	10.000	28.64
	8	0.093638	2.37841	-1.25	9.713	38.36
	10	0.078740	2.00000	-1.00	4.909	43.26
V Crse Sand	12	0.066212	1.68179	-0.75	2.308	45.57
	14	0.055678	1.41421	-0.50	2.755	48.33
	16	0.046819	1.18921	-0.25	3.136	51.46
	18	0.039370	1.00000	0.00	3.294	54.76
Coarse Sand	20	0.033106	0.84090	0.25	3.269	58.03
	25	0.027839	0.70711	0.50	3.064	61.09
	30	0.023410	0.59460	0.75	2.718	63.81
	35	0.019685	0.50000	1.00	2.314	66.12
	40	0.016553	0.42045	1.25	1.931	68.05
Medium Sand	45	0.013919	0.35355	1.50	1.601	69.65
	50	0.011705	0.29730	1.75	1.364	71.02
	60	0.009843	0.25000	2.00	1.218	72.24
	70	0.008277	0.21022	2.25	1.111	73.35
Fine Sand	80	0.006960	0.17678	2.50	1.022	74.37
	100	0.005852	0.14865	2.75	1.034	75.40
	120	0.004921	0.12500	3.00	1.160	76.56
	140	0.004138	0.10511	3.25	1.286	77.85
V. Fine Sand	170	0.003480	0.08839	3.50	1.320	79.17
	200	0.002926	0.07433	3.75	1.290	80.46
	230	0.002461	0.06250	4.00	1.259	81.72
	270	0.002069	0.05256	4.25	1.250	82.97
	325	0.001740	0.04419	4.50	1.257	84.22
	400	0.001463	0.03716	4.75	1.253	85.48
	450	0.001230	0.03125	5.00	1.226	86.70
	500	0.001035	0.02628	5.25	1.161	87.87
Silt	635	0.000870	0.02210	5.50	1.073	88.94
		0.000732	0.01858	5.75	1.002	89.94
		0.000615	0.01562	6.00	0.962	90.90
		0.000517	0.01314	6.25	0.921	91.82
		0.000435	0.01105	6.50	0.848	92.67
		0.000366	0.00929	6.75	0.766	93.44
		0.000308	0.00781	7.00	0.694	94.13
		0.000259	0.00657	7.25	0.637	94.77
		0.000217	0.00552	7.50	0.592	95.36
		0.000183	0.00465	7.75	0.556	95.92
		0.000154	0.00391	8.00	0.526	96.44
		0.000129	0.00328	8.25	0.495	96.94
		0.000109	0.00276	8.50	0.460	97.40
		0.000091	0.00232	8.75	0.420	97.82
	Clay		0.000077	0.00195	9.00	0.378
		0.000065	0.00164	9.25	0.337	98.53
		0.000054	0.00138	9.50	0.299	98.83
		0.000046	0.00116	9.75	0.266	99.10
		0.000038	0.00098	10.00	0.234	99.33
		0.000032	0.00082	10.25	0.204	99.53
		0.000027	0.00069	10.50	0.171	99.71
		0.000023	0.00058	10.75	0.135	99.84
		0.000019	0.00049	11.00	0.095	99.94
		0.000016	0.00041	11.25	0.051	99.99
		0.000015	0.00038	11.50	0.012	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0509	0.0509	0.0509	
(mm)	1.2941	1.2941	1.2941	
Mean	Coarse sand sized			
(in)	0.0627	0.0158	0.0233	
(mm)	1.5915	0.4014	0.5930	
Sorting	V. Poor			
	4.352	3.135	3.080	
Skewness	Strongly fine skewed			
	0.537	0.869	0.542	
Kurtosis	Mesokurtic			
	0.369	0.592	0.964	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
43.26	38.45	14.72	3.56	18.28
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2448	6.2186	-2.6366	
10	0.1535	3.8982	-1.9628	
16	0.1389	3.5271	-1.8185	
25	0.1190	3.0233	-1.5961	
40	0.0886	2.2516	-1.1710	
50	0.0509	1.2941	-0.3720	
75	0.0063	0.1596	2.6475	
84	0.0018	0.0457	4.4520	
90	0.0007	0.0184	5.7645	
95	0.0002	0.0062	7.3430	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



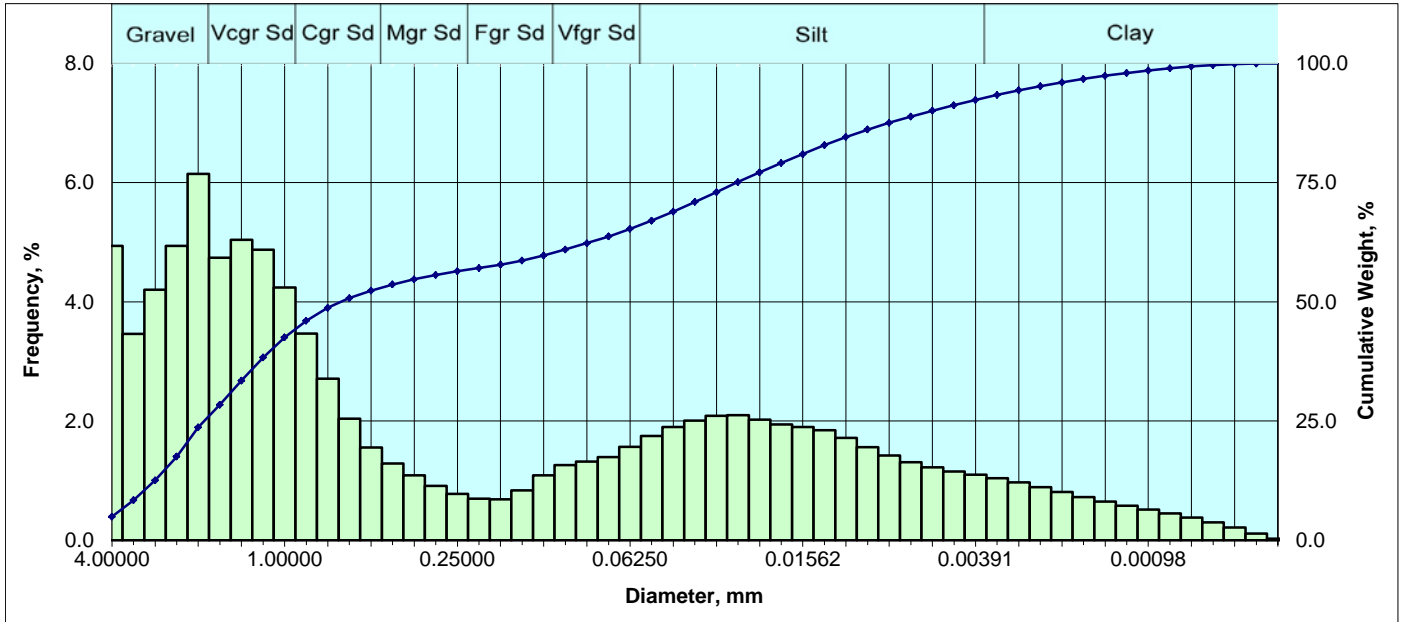
	Particle Size Distribution						
	Diameter				Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]	
Granule		0.625000	15.87500	-3.99	0.000	0.000	
		0.375000	9.525000	-3.25	7.040	7.040	
	5	0.157480	4.000000	-2.00	10.091	17.131	
	6	0.132425	3.36359	-1.75	6.072	23.203	
	7	0.111355	2.82843	-1.50	5.588	28.791	
V Crse Sand	8	0.093638	2.37841	-1.25	5.104	33.896	
	10	0.078740	2.00000	-1.00	5.280	39.176	
	12	0.066212	1.68179	-0.75	3.098	42.273	
	14	0.055678	1.41421	-0.50	3.252	45.525	
	16	0.046819	1.18921	-0.25	3.362	48.888	
Coarse Sand	18	0.039370	1.00000	0.00	3.365	52.253	
	20	0.033106	0.84090	0.25	3.222	55.475	
	25	0.027839	0.70711	0.50	2.855	58.331	
	30	0.023410	0.59460	0.75	2.327	60.657	
	35	0.019685	0.50000	1.00	1.822	62.479	
Medium Sand	40	0.016553	0.42045	1.25	1.479	63.958	
	45	0.013919	0.35355	1.50	1.240	65.198	
	50	0.011705	0.29730	1.75	1.063	66.261	
	60	0.009843	0.25000	2.00	0.933	67.195	
	70	0.008277	0.21022	2.25	0.825	68.020	
Fine Sand	80	0.006960	0.17678	2.50	0.734	68.754	
	100	0.005852	0.14865	2.75	0.744	69.498	
	120	0.004921	0.12500	3.00	0.866	70.364	
	140	0.004138	0.10511	3.25	0.979	71.342	
	170	0.003480	0.08839	3.50	1.011	72.353	
V. Fine Sand	200	0.002926	0.07433	3.75	1.021	73.375	
	230	0.002461	0.06250	4.00	1.072	74.447	
	270	0.002069	0.05256	4.25	1.144	75.591	
	325	0.001740	0.04419	4.50	1.214	76.804	
	400	0.001463	0.03716	4.75	1.274	78.078	
Silt	450	0.001230	0.03125	5.00	1.335	79.413	
	500	0.001035	0.02628	5.25	1.362	80.775	
	635	0.000870	0.02210	5.50	1.344	82.119	
		0.000732	0.01858	5.75	1.333	83.452	
		0.000615	0.01562	6.00	1.356	84.808	
		0.000517	0.01314	6.25	1.365	86.173	
		0.000435	0.01105	6.50	1.299	87.472	
		0.000366	0.00929	6.75	1.200	88.672	
		0.000308	0.00781	7.00	1.110	89.781	
		0.000259	0.00657	7.25	1.038	90.819	
		0.000217	0.00552	7.50	0.983	91.802	
		0.000183	0.00465	7.75	0.941	92.743	
		0.000154	0.00391	8.00	0.906	93.649	
	Clay		0.000129	0.00328	8.25	0.865	94.514
			0.000109	0.00276	8.50	0.811	95.325
		0.000091	0.00232	8.75	0.746	96.071	
		0.000077	0.00195	9.00	0.674	96.745	
		0.000065	0.00164	9.25	0.601	97.346	
		0.000054	0.00138	9.50	0.534	97.881	
		0.000046	0.00116	9.75	0.476	98.357	
		0.000038	0.00098	10.00	0.422	98.778	
		0.000032	0.00082	10.25	0.370	99.148	
		0.000027	0.00069	10.50	0.312	99.460	
		0.000023	0.00058	10.75	0.247	99.707	
		0.000019	0.00049	11.00	0.175	99.883	
		0.000016	0.00041	11.25	0.094	99.977	
		0.000015	0.00038	11.50	0.023	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0444	0.0444	0.0444	
(mm)	1.1267	1.1267	1.1267	
Mean	Medium sand sized			
(in)	0.0640	0.0112	0.0177	
(mm)	1.6246	0.2834	0.4490	
Sorting	V. Poor			
	7.438	4.027	3.817	
Skewness	Strongly fine skewed			
	0.381	0.650	0.467	
Kurtosis	Platykurtic			
	0.198	0.478	0.842	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
39.18	35.27	19.20	6.35	25.55
Percentile [Weight, %]	Particle Diameter			
	(in.)	(mm)	(φ)	
5	0.4474	11.3652	-3.5065	
10	0.3112	7.9044	-2.9827	
16	0.1819	4.6193	-2.2077	
25	0.1257	3.1915	-1.6742	
40	0.0754	1.9153	-0.9376	
50	0.0444	1.1267	-0.1721	
75	0.0023	0.0577	4.1155	
84	0.0007	0.0174	5.8458	
90	0.0003	0.0076	7.0492	
95	0.0001	0.0030	8.3946	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



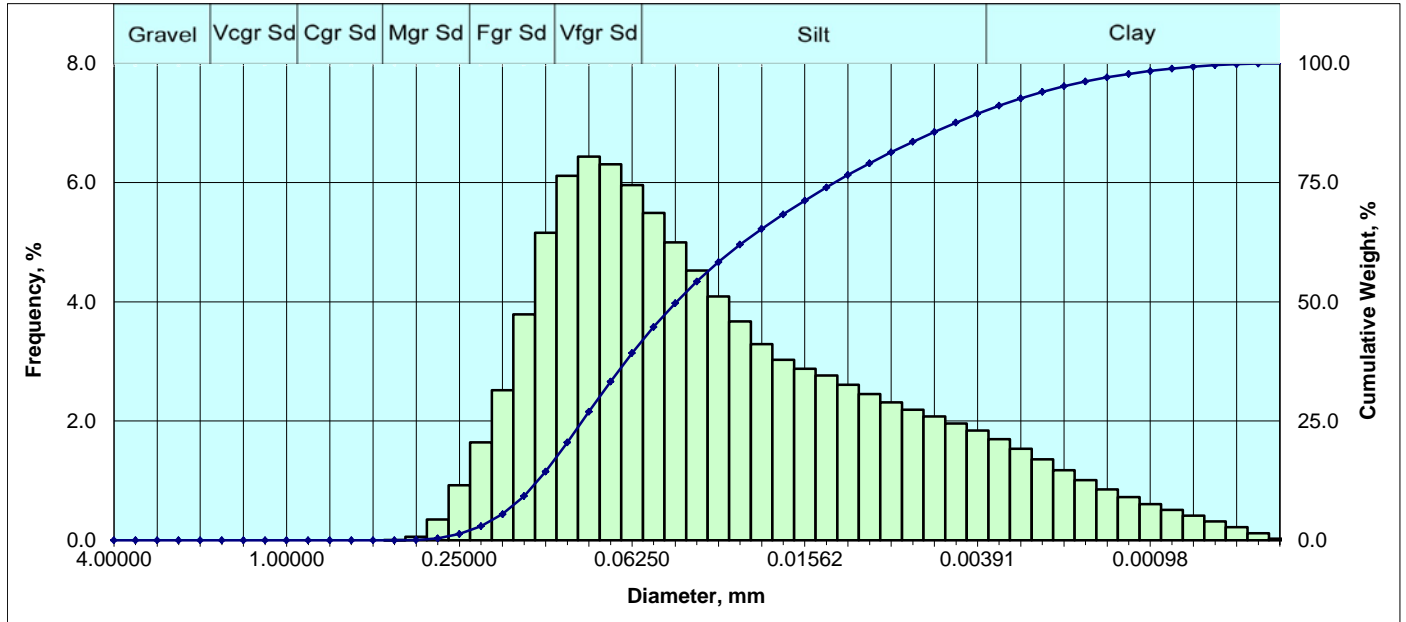
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]	
Granule	5	0.157480	4.00000	-2.00	4.940	4.94
	6	0.132425	3.36359	-1.75	3.462	8.40
	7	0.111355	2.82843	-1.50	4.201	12.60
	8	0.093638	2.37841	-1.25	4.940	17.54
	10	0.078740	2.00000	-1.00	6.145	23.69
V Crse Sand	12	0.066212	1.68179	-0.75	4.738	28.43
	14	0.055678	1.41421	-0.50	5.039	33.46
	16	0.046819	1.18921	-0.25	4.872	38.34
	18	0.039370	1.00000	0.00	4.238	42.57
Coarse Sand	20	0.033106	0.84090	0.25	3.469	46.04
	25	0.027839	0.70711	0.50	2.711	48.75
	30	0.023410	0.59460	0.75	2.040	50.79
	35	0.019685	0.50000	1.00	1.557	52.35
Medium Sand	40	0.016553	0.42045	1.25	1.287	53.64
	45	0.013919	0.35355	1.50	1.088	54.73
	50	0.011705	0.29730	1.75	0.911	55.64
	60	0.009843	0.25000	2.00	0.778	56.42
Fine Sand	70	0.008277	0.21022	2.25	0.698	57.11
	80	0.006960	0.17678	2.50	0.686	57.80
	100	0.005852	0.14865	2.75	0.836	58.64
	120	0.004921	0.12500	3.00	1.092	59.73
V. Fine Sand	140	0.004138	0.10511	3.25	1.264	60.99
	170	0.003480	0.08839	3.50	1.318	62.31
	200	0.002926	0.07433	3.75	1.396	63.71
	230	0.002461	0.06250	4.00	1.566	65.27
Silt	270	0.002069	0.05256	4.25	1.752	67.02
	325	0.001740	0.04419	4.50	1.902	68.93
	400	0.001463	0.03716	4.75	2.005	70.93
	450	0.001230	0.03125	5.00	2.087	73.02
	500	0.001035	0.02628	5.25	2.097	75.12
	635	0.000870	0.02210	5.50	2.024	77.14
		0.000732	0.01858	5.75	1.943	79.08
		0.000615	0.01562	6.00	1.901	80.98
		0.000517	0.01314	6.25	1.849	82.83
		0.000435	0.01105	6.50	1.720	84.55
		0.000366	0.00929	6.75	1.562	86.12
Clay		0.000308	0.00781	7.00	1.422	87.54
		0.000259	0.00657	7.25	1.310	88.85
		0.000217	0.00552	7.50	1.222	90.07
		0.000183	0.00465	7.75	1.154	91.22
		0.000154	0.00391	8.00	1.099	92.32
		0.000129	0.00328	8.25	1.040	93.36
		0.000109	0.00276	8.50	0.972	94.34
		0.000091	0.00232	8.75	0.893	95.23
		0.000077	0.00195	9.00	0.809	96.04
		0.000065	0.00164	9.25	0.725	96.76
		0.000054	0.00138	9.50	0.647	97.41
		0.000046	0.00116	9.75	0.580	97.99
		0.000038	0.00098	10.00	0.516	98.51
		0.000032	0.00082	10.25	0.453	98.96
		0.000027	0.00069	10.50	0.382	99.34
	0.000023	0.00058	10.75	0.303	99.64	
	0.000019	0.00049	11.00	0.214	99.86	
	0.000016	0.00041	11.25	0.115	99.97	
	0.000015	0.00038	11.50	0.028	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Coarse sand sized			
(in)	0.0251	0.0251	0.0251	
(mm)	0.6384	0.6384	0.6384	
Mean	Medium sand sized			
(in)	0.0382	0.0068	0.0105	
(mm)	0.9692	0.1718	0.2661	
Sorting	V. Poor			
	8.485	3.874	3.555	
Skewness	Strongly fine skewed			
	0.353	0.696	0.497	
Kurtosis	Platykurtic			
	0.299	0.378	0.709	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
23.69	41.59	27.05	7.68	34.73
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.1570	3.9889	-1.9960	
10	0.1244	3.1599	-1.6599	
16	0.0992	2.5189	-1.3328	
25	0.0753	1.9118	-0.9350	
40	0.0439	1.1149	-0.1569	
50	0.0251	0.6384	0.6475	
75	0.0010	0.0266	5.2350	
84	0.0005	0.0117	6.4147	
90	0.0002	0.0056	7.4845	
95	0.0001	0.0024	8.6818	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



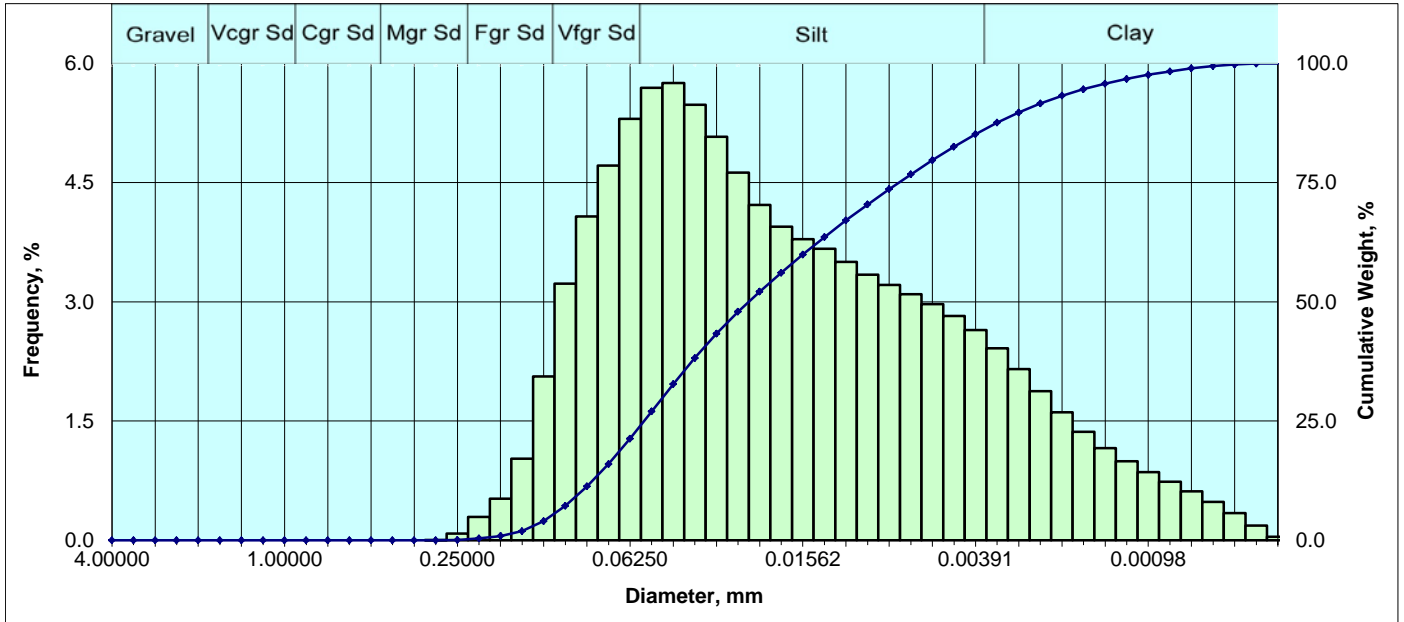
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.002	0.00
	45	0.013919	0.35355	1.50	0.058	0.06
	50	0.011705	0.29730	1.75	0.349	0.41
	60	0.009843	0.25000	2.00	0.921	1.33
Fine Sand	70	0.008277	0.21022	2.25	1.643	2.97
	80	0.006960	0.17678	2.50	2.516	5.49
	100	0.005852	0.14865	2.75	3.791	9.28
	120	0.004921	0.12500	3.00	5.159	14.44
V. Fine Sand	140	0.004138	0.10511	3.25	6.112	20.55
	170	0.003480	0.08839	3.50	6.436	26.99
	200	0.002926	0.07433	3.75	6.309	33.30
	230	0.002461	0.06250	4.00	5.956	39.25
	Silt	270	0.002069	0.05256	4.25	5.491
325		0.001740	0.04419	4.50	4.999	49.74
400		0.001463	0.03716	4.75	4.523	54.27
450		0.001230	0.03125	5.00	4.089	58.36
500		0.001035	0.02628	5.25	3.670	62.02
635		0.000870	0.02210	5.50	3.292	65.32
		0.000732	0.01858	5.75	3.026	68.34
		0.000615	0.01562	6.00	2.877	71.22
		0.000517	0.01314	6.25	2.765	73.99
		0.000435	0.01105	6.50	2.611	76.60
		0.000366	0.00929	6.75	2.453	79.05
		0.000308	0.00781	7.00	2.314	81.36
		0.000259	0.00657	7.25	2.190	83.55
	0.000217	0.00552	7.50	2.076	85.63	
	0.000183	0.00465	7.75	1.962	87.59	
	0.000154	0.00391	8.00	1.842	89.43	
Clay		0.000129	0.00328	8.25	1.698	91.13
		0.000109	0.00276	8.50	1.533	92.66
		0.000091	0.00232	8.75	1.357	94.02
		0.000077	0.00195	9.00	1.179	95.20
		0.000065	0.00164	9.25	1.008	96.21
		0.000054	0.00138	9.50	0.856	97.06
		0.000046	0.00116	9.75	0.724	97.79
		0.000038	0.00098	10.00	0.609	98.40
		0.000032	0.00082	10.25	0.509	98.90
		0.000027	0.00069	10.50	0.413	99.32
		0.000023	0.00058	10.75	0.317	99.63
		0.000019	0.00049	11.00	0.220	99.85
		0.000016	0.00041	11.25	0.117	99.97
		0.000015	0.00038	11.50	0.028	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0017	0.0017	0.0017
(mm)	0.0438	0.0438	0.0438
Mean	Silt sized		
(in)	0.0021	0.0011	0.0013
(mm)	0.0529	0.0276	0.0322
Sorting	V. Poor		
	2.755	2.120	2.046
Skewness	Strongly fine skewed		
	0.775	0.560	0.340
Kurtosis	Mesokurtic		
	0.287	0.534	0.912
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	39.25	50.18	10.57
Percentile [Weight, %]			
	Particle Diameter		
	(in.)	(mm)	(phi)
5	0.0072	0.1833	2.4478
10	0.0057	0.1454	2.7823
16	0.0047	0.1199	3.0598
25	0.0037	0.0936	3.4180
40	0.0024	0.0611	4.0315
50	0.0017	0.0438	4.5131
75	0.0005	0.0123	6.3421
84	0.0002	0.0063	7.3002
90	0.0001	0.0037	8.0788
95	0.0001	0.0020	8.9546

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



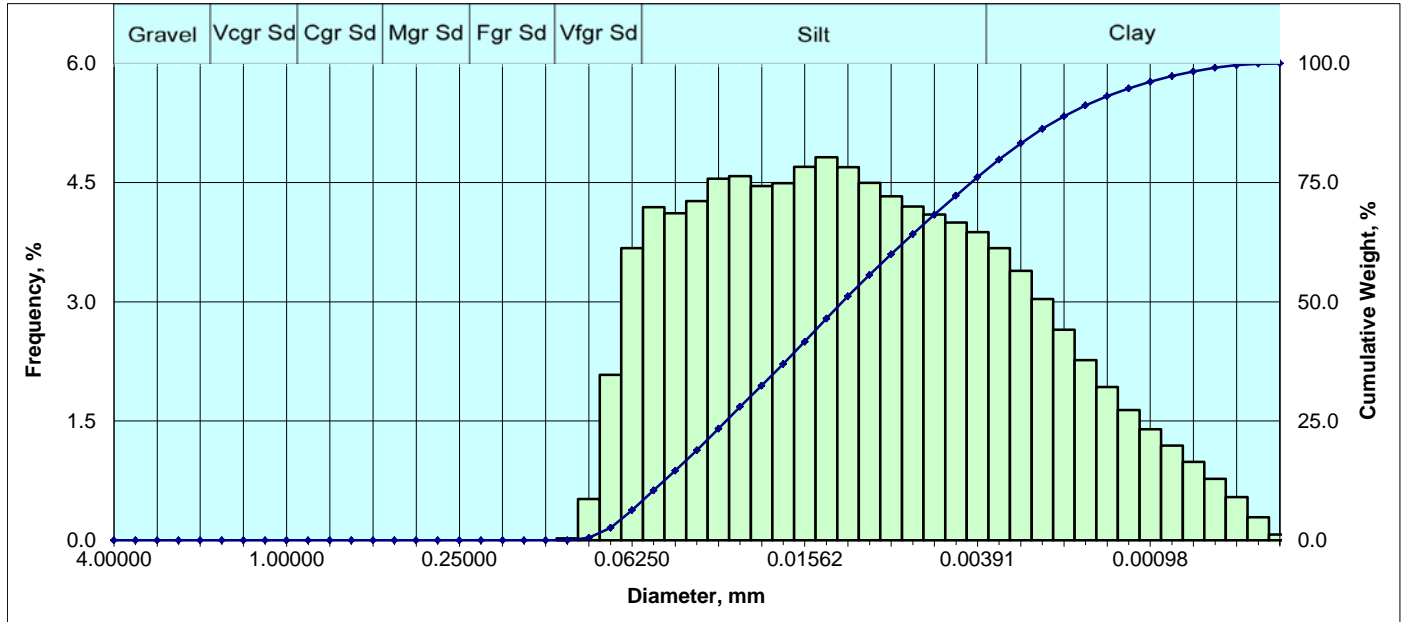
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.005	0.00
	60	0.009843	0.25000	2.00	0.083	0.09
Fine Sand	70	0.008277	0.21022	2.25	0.296	0.38
	80	0.006960	0.17678	2.50	0.526	0.91
	100	0.005852	0.14865	2.75	1.026	1.94
	120	0.004921	0.12500	3.00	2.062	4.00
V. Fine Sand	140	0.004138	0.10511	3.25	3.227	7.22
	170	0.003480	0.08839	3.50	4.073	11.30
	200	0.002926	0.07433	3.75	4.713	16.01
	230	0.002461	0.06250	4.00	5.303	21.31
	Silt	270	0.002069	0.05256	4.25	5.694
325		0.001740	0.04419	4.50	5.752	32.76
400		0.001463	0.03716	4.75	5.481	38.24
450		0.001230	0.03125	5.00	5.075	43.31
500		0.001035	0.02628	5.25	4.627	47.94
635		0.000870	0.02210	5.50	4.221	52.16
		0.000732	0.01858	5.75	3.944	56.11
		0.000615	0.01562	6.00	3.790	59.90
		0.000517	0.01314	6.25	3.669	63.56
		0.000435	0.01105	6.50	3.502	67.07
		0.000366	0.00929	6.75	3.343	70.41
		0.000308	0.00781	7.00	3.214	73.62
		0.000259	0.00657	7.25	3.096	76.72
		0.000217	0.00552	7.50	2.971	79.69
		0.000183	0.00465	7.75	2.823	82.51
	0.000154	0.00391	8.00	2.645	85.16	
Clay		0.000129	0.00328	8.25	2.417	87.57
		0.000109	0.00276	8.50	2.155	89.73
		0.000091	0.00232	8.75	1.878	91.61
		0.000077	0.00195	9.00	1.609	93.22
		0.000065	0.00164	9.25	1.365	94.58
		0.000054	0.00138	9.50	1.159	95.74
		0.000046	0.00116	9.75	0.994	96.73
		0.000038	0.00098	10.00	0.856	97.59
		0.000032	0.00082	10.25	0.737	98.33
		0.000027	0.00069	10.50	0.615	98.94
		0.000023	0.00058	10.75	0.485	99.43
		0.000019	0.00049	11.00	0.343	99.77
		0.000016	0.00041	11.25	0.184	99.95
		0.000015	0.00038	11.50	0.045	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0242	0.0242	0.0242	
Mean	Silt sized			
(in)	0.0012	0.0007	0.0008	
(mm)	0.0317	0.0177	0.0197	
Sorting	Poor			
	2.779	2.068	1.983	
Skewness	Finely skewed			
	0.832	0.405	0.243	
Kurtosis	Platykurtic			
	0.268	0.514	0.870	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	21.31	63.84	14.84	78.69
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0047	0.1188	3.0731	
10	0.0037	0.0937	3.4156	
16	0.0029	0.0744	3.7494	
25	0.0022	0.0561	4.1568	
40	0.0014	0.0351	4.8319	
50	0.0010	0.0242	5.3666	
75	0.0003	0.0073	7.1059	
84	0.0002	0.0042	7.8852	
90	0.0001	0.0027	8.5335	
95	0.0001	0.0015	9.3355	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



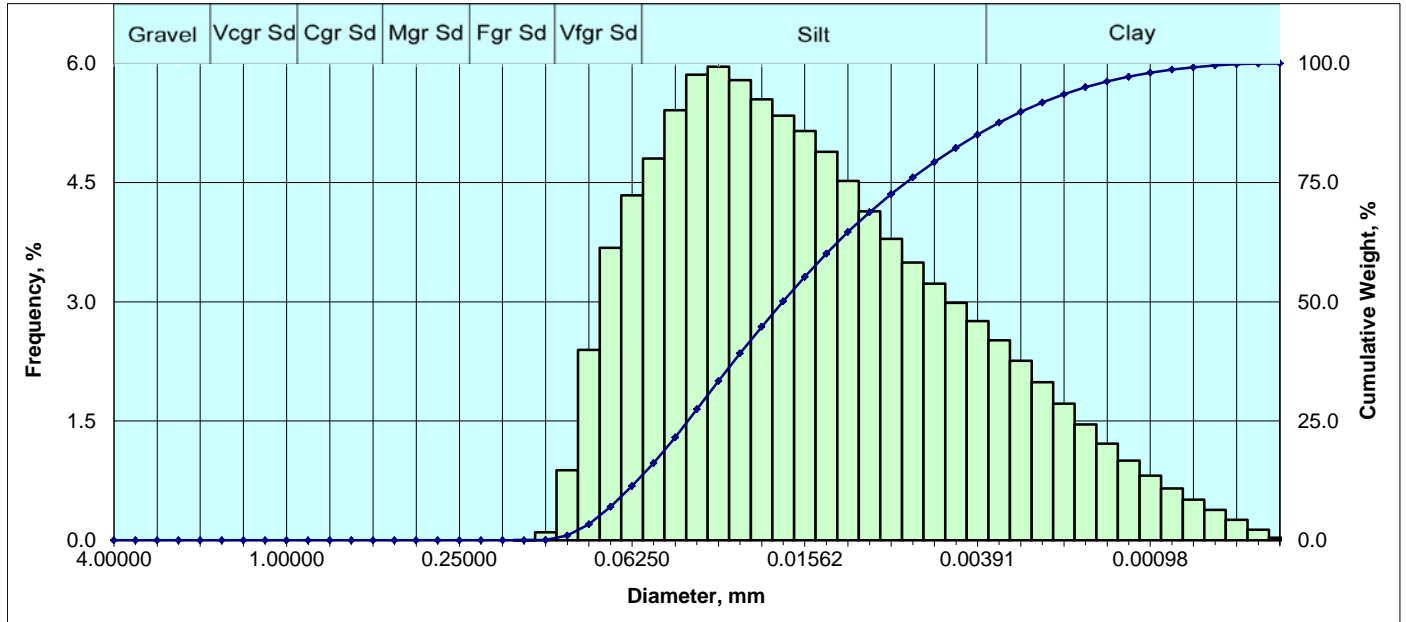
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.025	0.03
	170	0.003480	0.08839	3.50	0.518	0.54
	200	0.002926	0.07433	3.75	2.080	2.62
	230	0.002461	0.06250	4.00	3.676	6.30
	Silt	270	0.002069	0.05256	4.25	4.192
325		0.001740	0.04419	4.50	4.116	14.61
400		0.001463	0.03716	4.75	4.267	18.87
450		0.001230	0.03125	5.00	4.548	23.42
500		0.001035	0.02628	5.25	4.582	28.00
635		0.000870	0.02210	5.50	4.457	32.46
		0.000732	0.01858	5.75	4.492	36.95
		0.000615	0.01562	6.00	4.698	41.65
		0.000517	0.01314	6.25	4.818	46.47
		0.000435	0.01105	6.50	4.694	51.16
		0.000366	0.00929	6.75	4.498	55.66
		0.000308	0.00781	7.00	4.327	59.99
		0.000259	0.00657	7.25	4.197	64.19
	0.000217	0.00552	7.50	4.097	68.28	
	0.000183	0.00465	7.75	3.997	72.28	
	0.000154	0.00391	8.00	3.879	76.16	
Clay		0.000129	0.00328	8.25	3.677	79.84
		0.000109	0.00276	8.50	3.390	83.23
		0.000091	0.00232	8.75	3.037	86.26
		0.000077	0.00195	9.00	2.650	88.91
		0.000065	0.00164	9.25	2.269	91.18
		0.000054	0.00138	9.50	1.927	93.11
		0.000046	0.00116	9.75	1.640	94.75
		0.000038	0.00098	10.00	1.397	96.15
		0.000032	0.00082	10.25	1.190	97.34
		0.000027	0.00069	10.50	0.985	98.32
		0.000023	0.00058	10.75	0.772	99.09
		0.000019	0.00049	11.00	0.544	99.64
		0.000016	0.00041	11.25	0.292	99.93
		0.000015	0.00038	11.50	0.071	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0116	0.0116	0.0116	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0004	
(mm)	0.0168	0.0105	0.0109	
Sorting	Poor			
	2.675	1.991	1.887	
Skewness	Finely skewed			
	0.955	0.209	0.104	
Kurtosis	Platykurtic			
	0.245	0.478	0.849	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	6.30	69.86	23.84	93.70
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0026	0.0667	3.9066	
10	0.0021	0.0537	4.2184	
16	0.0016	0.0419	4.5769	
25	0.0012	0.0295	5.0813	
40	0.0007	0.0167	5.9071	
50	0.0005	0.0116	6.4339	
75	0.0002	0.0041	7.9207	
84	0.0001	0.0027	8.5597	
90	0.0001	0.0018	9.1143	
95	0.0000	0.0011	9.7919	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



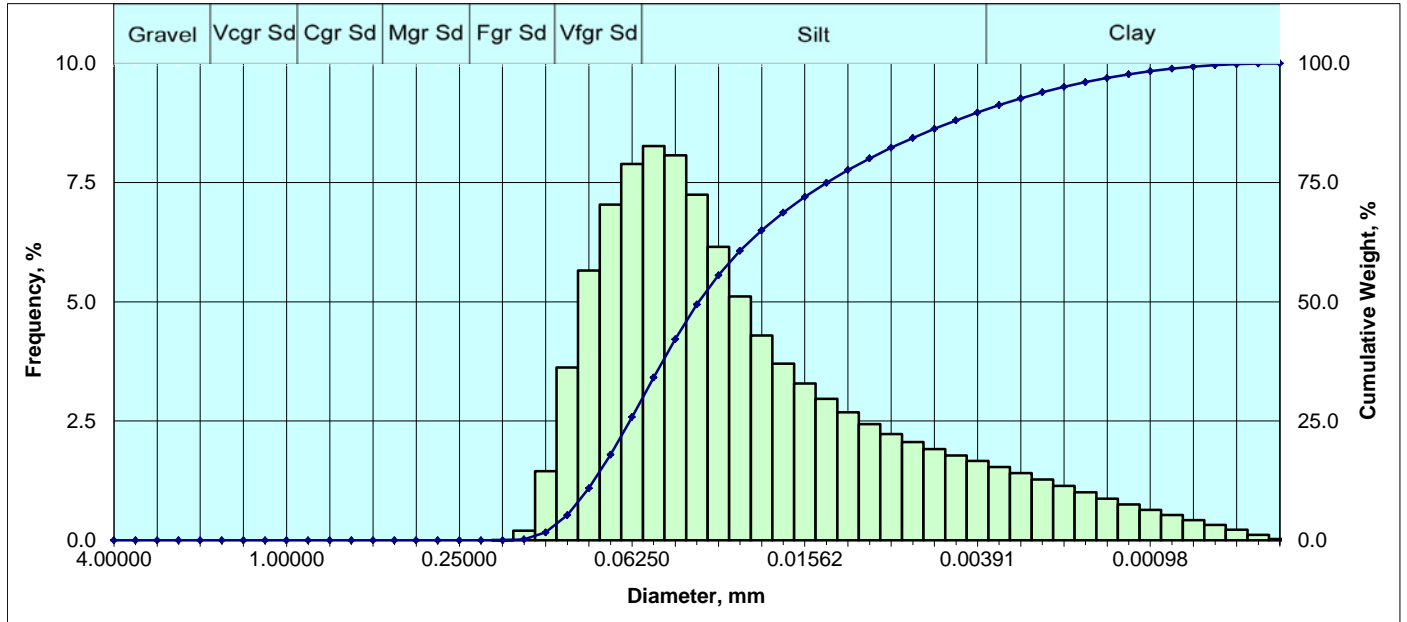
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.001	0.00
	120	0.004921	0.12500	3.00	0.102	0.10
V. Fine Sand	140	0.004138	0.10511	3.25	0.882	0.98
	170	0.003480	0.08839	3.50	2.396	3.38
	200	0.002926	0.07433	3.75	3.678	7.06
	230	0.002461	0.06250	4.00	4.339	11.40
	Silt	270	0.002069	0.05256	4.25	4.801
325		0.001740	0.04419	4.50	5.412	21.61
400		0.001463	0.03716	4.75	5.857	27.47
450		0.001230	0.03125	5.00	5.958	33.43
500		0.001035	0.02628	5.25	5.790	39.22
635		0.000870	0.02210	5.50	5.545	44.76
		0.000732	0.01858	5.75	5.342	50.10
		0.000615	0.01562	6.00	5.148	55.25
		0.000517	0.01314	6.25	4.886	60.14
		0.000435	0.01105	6.50	4.520	64.66
		0.000366	0.00929	6.75	4.138	68.80
		0.000308	0.00781	7.00	3.793	72.59
		0.000259	0.00657	7.25	3.493	76.08
		0.000217	0.00552	7.50	3.228	79.31
Clay		0.000183	0.00465	7.75	2.985	82.30
		0.000154	0.00391	8.00	2.758	85.05
		0.000129	0.00328	8.25	2.516	87.57
		0.000109	0.00276	8.50	2.259	89.83
		0.000091	0.00232	8.75	1.991	91.82
		0.000077	0.00195	9.00	1.720	93.54
		0.000065	0.00164	9.25	1.458	95.00
		0.000054	0.00138	9.50	1.217	96.21
		0.000046	0.00116	9.75	1.001	97.22
		0.000038	0.00098	10.00	0.813	98.03
		0.000032	0.00082	10.25	0.654	98.68
		0.000027	0.00069	10.50	0.511	99.19
		0.000023	0.00058	10.75	0.381	99.58
		0.000019	0.00049	11.00	0.257	99.83
	0.000016	0.00041	11.25	0.135	99.97	
	0.000015	0.00038	11.50	0.033	100.00	

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0007	0.0007	0.0007
(mm)	0.0186	0.0186	0.0186
Mean	Silt sized		
(in)	0.0009	0.0006	0.0006
(mm)	0.0235	0.0149	0.0161
Sorting	Poor		
	2.402	1.830	1.771
Skewness	Finely skewed		
	0.896	0.373	0.210
Kurtosis	Mesokurtic		
	0.261	0.542	0.915
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	11.40	73.66	14.95
			Silt + Clay
			88.60
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0032	0.0822	3.6048
10	0.0026	0.0663	3.9147
16	0.0021	0.0530	4.2387
25	0.0016	0.0401	4.6393
40	0.0010	0.0257	5.2828
50	0.0007	0.0186	5.7447
75	0.0003	0.0070	7.1679
84	0.0002	0.0042	7.8994
90	0.0001	0.0027	8.5199
95	0.0001	0.0016	9.2505

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



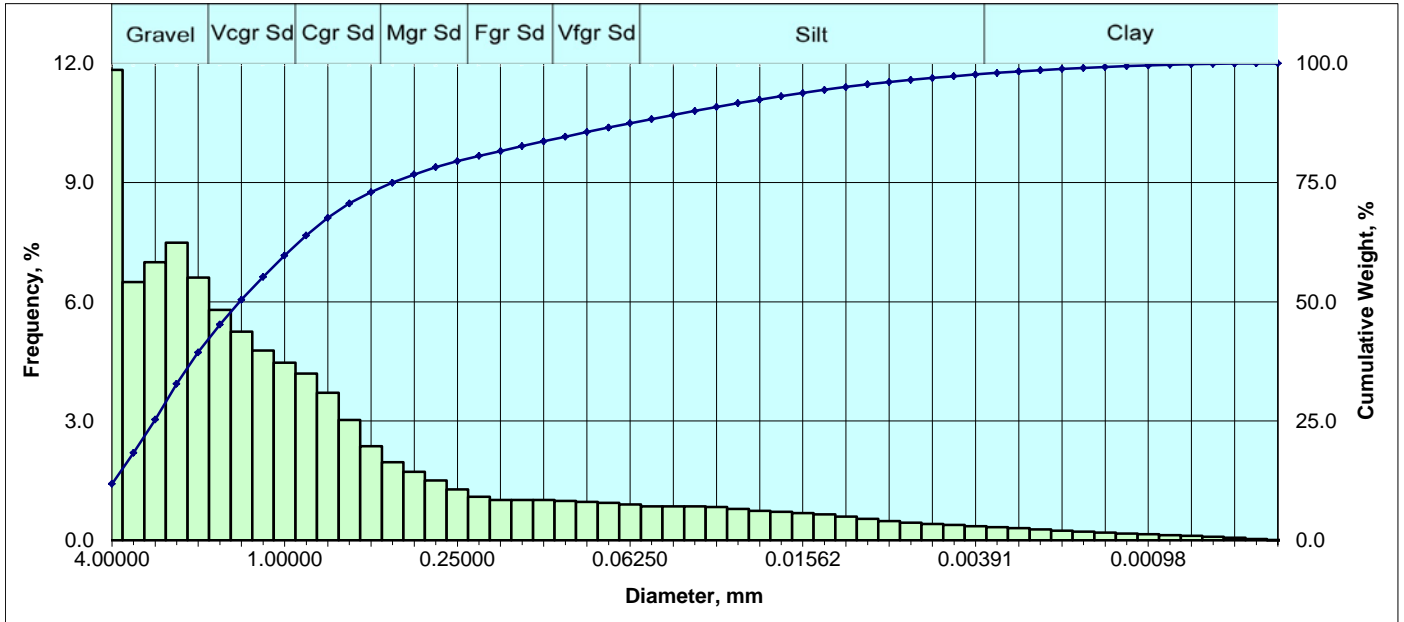
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.003	0.00
	100	0.005852	0.14865	2.75	0.201	0.20
	120	0.004921	0.12500	3.00	1.447	1.65
V. Fine Sand	140	0.004138	0.10511	3.25	3.623	5.27
	170	0.003480	0.08839	3.50	5.654	10.93
	200	0.002926	0.07433	3.75	7.038	17.97
	230	0.002461	0.06250	4.00	7.888	25.85
	Silt	270	0.002069	0.05256	4.25	8.264
325		0.001740	0.04419	4.50	8.071	42.19
400		0.001463	0.03716	4.75	7.249	49.44
450		0.001230	0.03125	5.00	6.154	55.59
500		0.001035	0.02628	5.25	5.112	60.70
635		0.000870	0.02210	5.50	4.291	65.00
		0.000732	0.01858	5.75	3.706	68.70
		0.000615	0.01562	6.00	3.291	71.99
		0.000517	0.01314	6.25	2.969	74.96
		0.000435	0.01105	6.50	2.682	77.64
		0.000366	0.00929	6.75	2.434	80.08
		0.000308	0.00781	7.00	2.230	82.31
		0.000259	0.00657	7.25	2.059	84.37
	0.000217	0.00552	7.50	1.912	86.28	
	0.000183	0.00465	7.75	1.781	88.06	
	0.000154	0.00391	8.00	1.662	89.72	
Clay		0.000129	0.00328	8.25	1.538	91.26
		0.000109	0.00276	8.50	1.408	92.67
		0.000091	0.00232	8.75	1.274	93.94
		0.000077	0.00195	9.00	1.139	95.08
		0.000065	0.00164	9.25	1.005	96.09
		0.000054	0.00138	9.50	0.876	96.96
		0.000046	0.00116	9.75	0.755	97.72
		0.000038	0.00098	10.00	0.639	98.36
		0.000032	0.00082	10.25	0.531	98.89
		0.000027	0.00069	10.50	0.426	99.31
		0.000023	0.00058	10.75	0.323	99.64
		0.000019	0.00049	11.00	0.220	99.86
		0.000016	0.00041	11.25	0.116	99.97
		0.000015	0.00038	11.50	0.028	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0014	0.0014	0.0014	
(mm)	0.0366	0.0366	0.0366	
Mean	Silt sized			
(in)	0.0015	0.0009	0.0011	
(mm)	0.0384	0.0231	0.0269	
Sorting	Poor			
	2.206	1.763	1.753	
Skewness	Strongly fine skewed			
	0.790	0.757	0.421	
Kurtosis	Mesokurtic			
	0.290	0.631	1.033	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	25.85	63.87	10.28	74.15
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0042	0.1066	3.2295	
10	0.0036	0.0911	3.4559	
16	0.0031	0.0783	3.6757	
25	0.0025	0.0638	3.9707	
40	0.0018	0.0465	4.4278	
50	0.0014	0.0366	4.7711	
75	0.0005	0.0131	6.2533	
84	0.0003	0.0068	7.2021	
90	0.0001	0.0038	8.0421	
95	0.0001	0.0020	8.9806	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



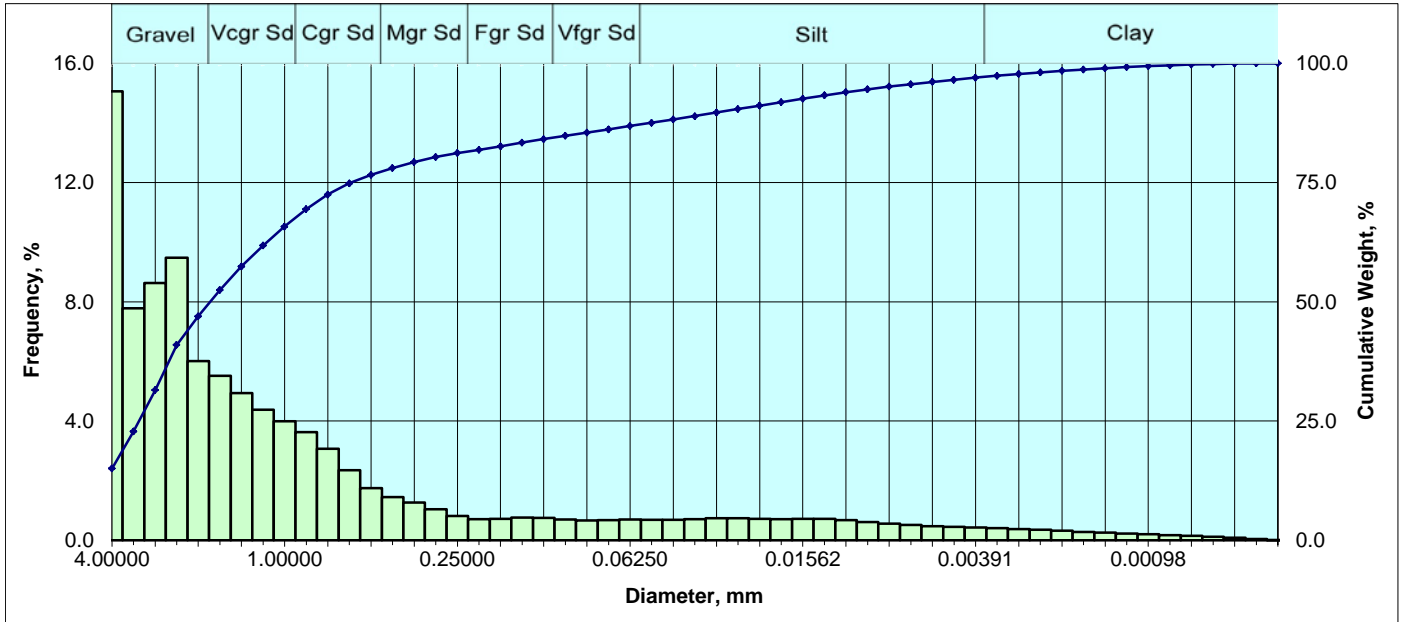
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	11.833	11.83
	6	0.132425	3.36359	-1.75	6.501	18.33
	7	0.111355	2.82843	-1.50	6.994	25.33
	8	0.093638	2.37841	-1.25	7.487	32.82
	10	0.078740	2.00000	-1.00	6.611	39.43
V Crse Sand	12	0.066212	1.68179	-0.75	5.796	45.22
	14	0.055678	1.41421	-0.50	5.248	50.47
	16	0.046819	1.18921	-0.25	4.774	55.25
	18	0.039370	1.00000	0.00	4.473	59.72
Coarse Sand	20	0.033106	0.84090	0.25	4.197	63.92
	25	0.027839	0.70711	0.50	3.715	67.63
	30	0.023410	0.59460	0.75	3.025	70.66
	35	0.019685	0.50000	1.00	2.371	73.03
	40	0.016553	0.42045	1.25	1.967	74.99
Medium Sand	45	0.013919	0.35355	1.50	1.723	76.72
	50	0.011705	0.29730	1.75	1.509	78.23
	60	0.009843	0.25000	2.00	1.282	79.51
	70	0.008277	0.21022	2.25	1.099	80.61
Fine Sand	80	0.006960	0.17678	2.50	1.016	81.62
	100	0.005852	0.14865	2.75	1.018	82.64
	120	0.004921	0.12500	3.00	1.013	83.65
	140	0.004138	0.10511	3.25	0.987	84.64
V. Fine Sand	170	0.003480	0.08839	3.50	0.968	85.61
	200	0.002926	0.07433	3.75	0.946	86.56
	230	0.002461	0.06250	4.00	0.902	87.46
	270	0.002069	0.05256	4.25	0.858	88.31
	325	0.001740	0.04419	4.50	0.853	89.17
	400	0.001463	0.03716	4.75	0.858	90.02
	450	0.001230	0.03125	5.00	0.839	90.86
	500	0.001035	0.02628	5.25	0.793	91.66
Silt	635	0.000870	0.02210	5.50	0.745	92.40
		0.000732	0.01858	5.75	0.713	93.11
		0.000615	0.01562	6.00	0.689	93.80
		0.000517	0.01314	6.25	0.653	94.46
		0.000435	0.01105	6.50	0.597	95.05
		0.000366	0.00929	6.75	0.538	95.59
		0.000308	0.00781	7.00	0.487	96.08
		0.000259	0.00657	7.25	0.445	96.52
		0.000217	0.00552	7.50	0.411	96.93
		0.000183	0.00465	7.75	0.383	97.32
		0.000154	0.00391	8.00	0.359	97.68
		0.000129	0.00328	8.25	0.333	98.01
		0.000109	0.00276	8.50	0.305	98.31
		0.000091	0.00232	8.75	0.275	98.59
	Clay		0.000077	0.00195	9.00	0.245
		0.000065	0.00164	9.25	0.217	99.05
		0.000054	0.00138	9.50	0.191	99.24
		0.000046	0.00116	9.75	0.170	99.41
		0.000038	0.00098	10.00	0.151	99.56
		0.000032	0.00082	10.25	0.132	99.70
		0.000027	0.00069	10.50	0.111	99.81
		0.000023	0.00058	10.75	0.088	99.90
		0.000019	0.00049	11.00	0.063	99.96
		0.000016	0.00041	11.25	0.034	99.99
		0.000015	0.00038	11.50	0.008	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0566	0.0566	0.0566	
(mm)	1.4382	1.4382	1.4382	
Mean	Coarse sand sized			
(in)	0.0644	0.0256	0.0334	
(mm)	1.6369	0.6511	0.8480	
Sorting	V. Poor			
	2.606	2.464	2.644	
Skewness	Strongly fine skewed			
	0.761	0.949	0.483	
Kurtosis	Lepokurtic			
	0.252	0.892	1.382	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
39.43	48.03	10.22	2.32	12.54
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2831	7.1905	-2.8461	
10	0.1912	4.8560	-2.2798	
16	0.1414	3.5921	-1.8448	
25	0.1123	2.8536	-1.5128	
40	0.0775	1.9685	-0.9771	
50	0.0566	1.4382	-0.5243	
75	0.0165	0.4202	1.2508	
84	0.0046	0.1180	3.0830	
90	0.0015	0.0374	4.7421	
95	0.0004	0.0112	6.4758	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



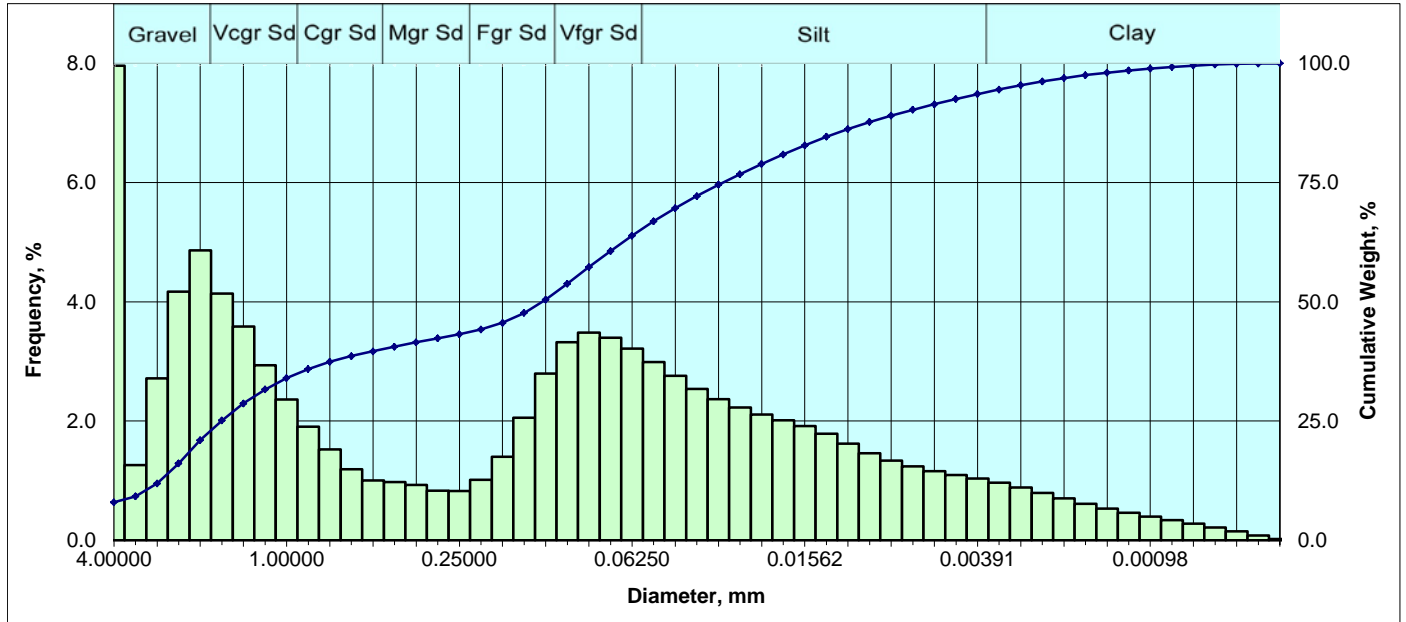
Particle Size Distribution							
	Diameter				Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]	
Granule	5	0.157480	4.00000	-2.00	15.061	15.06	
	6	0.132425	3.36359	-1.75	7.786	22.85	
	7	0.111355	2.82843	-1.50	8.632	31.48	
	8	0.093638	2.37841	-1.25	9.477	40.96	
	10	0.078740	2.00000	-1.00	6.017	46.97	
V Crse Sand	12	0.066212	1.68179	-0.75	5.516	52.49	
	14	0.055678	1.41421	-0.50	4.937	57.43	
	16	0.046819	1.18921	-0.25	4.381	61.81	
	18	0.039370	1.00000	0.00	3.990	65.80	
Coarse Sand	20	0.033106	0.84090	0.25	3.632	69.43	
	25	0.027839	0.70711	0.50	3.075	72.50	
	30	0.023410	0.59460	0.75	2.352	74.86	
	35	0.019685	0.50000	1.00	1.752	76.61	
	40	0.016553	0.42045	1.25	1.453	78.06	
Medium Sand	45	0.013919	0.35355	1.50	1.265	79.33	
	50	0.011705	0.29730	1.75	1.042	80.37	
	60	0.009843	0.25000	2.00	0.817	81.19	
	70	0.008277	0.21022	2.25	0.705	81.89	
Fine Sand	80	0.006960	0.17678	2.50	0.718	82.61	
	100	0.005852	0.14865	2.75	0.768	83.38	
	120	0.004921	0.12500	3.00	0.753	84.13	
V. Fine Sand	140	0.004138	0.10511	3.25	0.697	84.83	
	170	0.003480	0.08839	3.50	0.664	85.49	
	200	0.002926	0.07433	3.75	0.675	86.16	
	230	0.002461	0.06250	4.00	0.695	86.86	
	Silt	270	0.002069	0.05256	4.25	0.691	87.55
		325	0.001740	0.04419	4.50	0.684	88.24
		400	0.001463	0.03716	4.75	0.705	88.94
450		0.001230	0.03125	5.00	0.739	89.68	
500		0.001035	0.02628	5.25	0.744	90.42	
635		0.000870	0.02210	5.50	0.720	91.14	
		0.000732	0.01858	5.75	0.706	91.85	
		0.000615	0.01562	6.00	0.716	92.57	
		0.000517	0.01314	6.25	0.716	93.28	
		0.000435	0.01105	6.50	0.673	93.96	
		0.000366	0.00929	6.75	0.613	94.57	
		0.000308	0.00781	7.00	0.557	95.13	
		0.000259	0.00657	7.25	0.511	95.64	
		0.000217	0.00552	7.50	0.476	96.11	
Clay		0.000183	0.00465	7.75	0.449	96.56	
		0.000154	0.00391	8.00	0.428	96.99	
		0.000129	0.00328	8.25	0.406	97.39	
		0.000109	0.00276	8.50	0.380	97.78	
		0.000091	0.00232	8.75	0.350	98.13	
		0.000077	0.00195	9.00	0.318	98.44	
		0.000065	0.00164	9.25	0.285	98.73	
		0.000054	0.00138	9.50	0.255	98.98	
		0.000046	0.00116	9.75	0.228	99.21	
		0.000038	0.00098	10.00	0.202	99.41	
		0.000032	0.00082	10.25	0.178	99.59	
		0.000027	0.00069	10.50	0.150	99.74	
		0.000023	0.00058	10.75	0.119	99.86	
		0.000019	0.00049	11.00	0.084	99.94	
		0.000016	0.00041	11.25	0.045	99.99	
	0.000015	0.00038	11.50	0.011	100.00		

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0719	0.0719	0.0719	
(mm)	1.8253	1.8253	1.8253	
Mean	Coarse sand sized			
(in)	0.0751	0.0280	0.0383	
(mm)	1.9085	0.7116	0.9741	
Sorting	V. Poor			
	2.346	2.463	2.729	
Skewness	Strongly fine skewed			
	0.754	1.164	0.566	
Kurtosis	Very leptokurtic			
	0.227	1.006	1.646	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
46.97	39.89	10.13	3.01	13.14
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3028	7.6908	-2.9431	
10	0.2306	5.8566	-2.5501	
16	0.1545	3.9232	-1.9720	
25	0.1272	3.2301	-1.6916	
40	0.0954	2.4238	-1.2773	
50	0.0719	1.8253	-0.8682	
75	0.0231	0.5869	0.7689	
84	0.0051	0.1291	2.9538	
90	0.0011	0.0291	5.1024	
95	0.0003	0.0081	6.9398	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



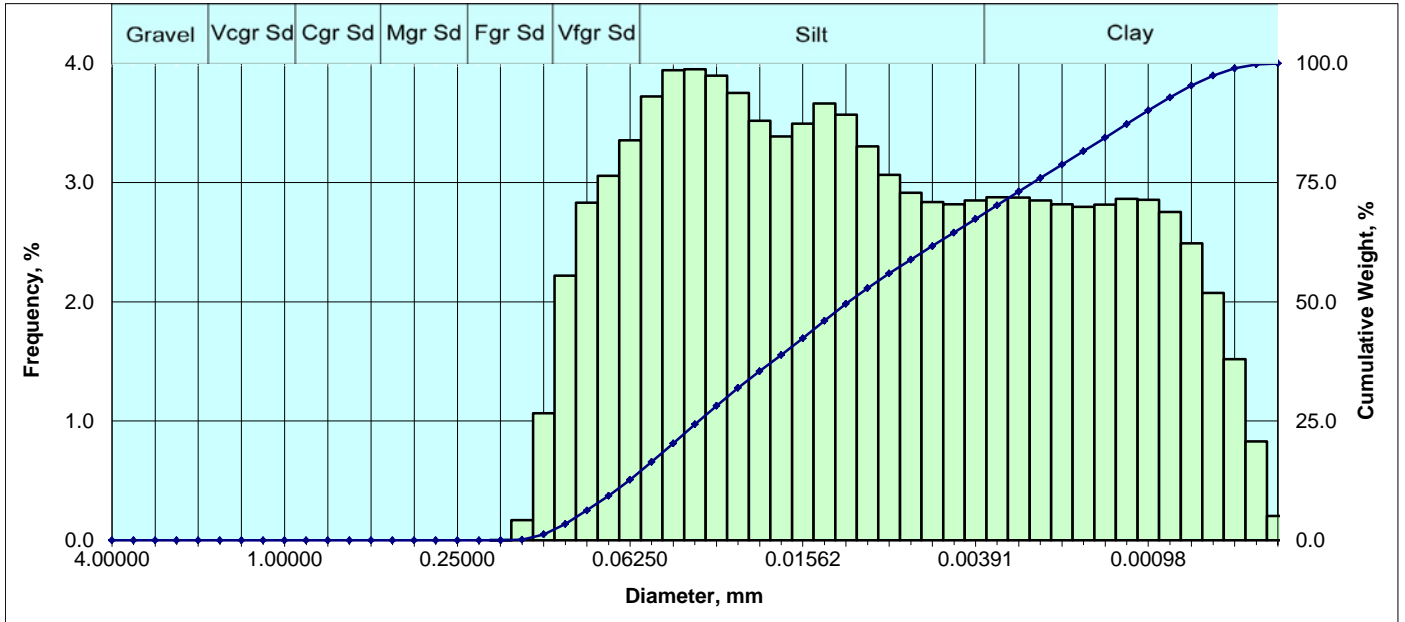
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	7.960	7.96
	6	0.132425	3.36359	-1.75	1.263	9.22
	7	0.111355	2.82843	-1.50	2.716	11.94
	8	0.093638	2.37841	-1.25	4.169	16.11
	10	0.078740	2.00000	-1.00	4.864	20.97
V Crse Sand	12	0.066212	1.68179	-0.75	4.136	25.11
	14	0.055678	1.41421	-0.50	3.584	28.69
	16	0.046819	1.18921	-0.25	2.939	31.63
	18	0.039370	1.00000	0.00	2.365	34.00
Coarse Sand	20	0.033106	0.84090	0.25	1.907	35.90
	25	0.027839	0.70711	0.50	1.526	37.43
	30	0.023410	0.59460	0.75	1.194	38.62
	35	0.019685	0.50000	1.00	1.004	39.63
Medium Sand	40	0.016553	0.42045	1.25	0.978	40.61
	45	0.013919	0.35355	1.50	0.931	41.54
	50	0.011705	0.29730	1.75	0.831	42.37
	60	0.009843	0.25000	2.00	0.824	43.19
Fine Sand	70	0.008277	0.21022	2.25	1.014	44.21
	80	0.006960	0.17678	2.50	1.404	45.61
	100	0.005852	0.14865	2.75	2.059	47.67
	120	0.004921	0.12500	3.00	2.799	50.47
V. Fine Sand	140	0.004138	0.10511	3.25	3.322	53.79
	170	0.003480	0.08839	3.50	3.482	57.27
	200	0.002926	0.07433	3.75	3.397	60.67
	230	0.002461	0.06250	4.00	3.216	63.88
	Silt	270	0.002069	0.05256	4.25	2.992
325		0.001740	0.04419	4.50	2.759	69.63
400		0.001463	0.03716	4.75	2.541	72.18
450		0.001230	0.03125	5.00	2.368	74.54
500		0.001035	0.02628	5.25	2.230	76.77
635		0.000870	0.02210	5.50	2.112	78.89
		0.000732	0.01858	5.75	2.014	80.90
		0.000615	0.01562	6.00	1.918	82.82
		0.000517	0.01314	6.25	1.790	84.61
		0.000435	0.01105	6.50	1.622	86.23
		0.000366	0.00929	6.75	1.463	87.69
		0.000308	0.00781	7.00	1.336	89.03
		0.000259	0.00657	7.25	1.238	90.27
	0.000217	0.00552	7.50	1.162	91.43	
	0.000183	0.00465	7.75	1.096	92.52	
	0.000154	0.00391	8.00	1.036	93.56	
Clay		0.000129	0.00328	8.25	0.966	94.53
		0.000109	0.00276	8.50	0.885	95.41
		0.000091	0.00232	8.75	0.796	96.21
		0.000077	0.00195	9.00	0.703	96.91
		0.000065	0.00164	9.25	0.614	97.52
		0.000054	0.00138	9.50	0.532	98.06
		0.000046	0.00116	9.75	0.461	98.52
		0.000038	0.00098	10.00	0.397	98.91
		0.000032	0.00082	10.25	0.338	99.25
		0.000027	0.00069	10.50	0.279	99.53
		0.000023	0.00058	10.75	0.217	99.75
		0.000019	0.00049	11.00	0.152	99.90
		0.000016	0.00041	11.25	0.081	99.98
		0.000015	0.00038	11.50	0.020	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Fine sand sized			
(in)	0.0051	0.0051	0.0051	
(mm)	0.1289	0.1289	0.1289	
Mean	Fine sand sized			
(in)	0.0339	0.0072	0.0064	
(mm)	0.8602	0.1828	0.1627	
Sorting	V. Poor			
	7.477	3.709	3.517	
Skewness	Near symmetrical			
	1.753	-0.017	-0.074	
Kurtosis	Platykurtic			
	0.259	0.480	0.775	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
20.97	42.91	29.68	6.44	36.12
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2384	6.0543	-2.5980	
10	0.1264	3.2105	-1.6828	
16	0.0941	2.3901	-1.2571	
25	0.0665	1.6902	-0.7572	
40	0.0185	0.4697	1.0901	
50	0.0051	0.1289	2.9552	
75	0.0012	0.0302	5.0477	
84	0.0006	0.0140	6.1600	
90	0.0003	0.0068	7.1923	
95	0.0001	0.0030	8.3786	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



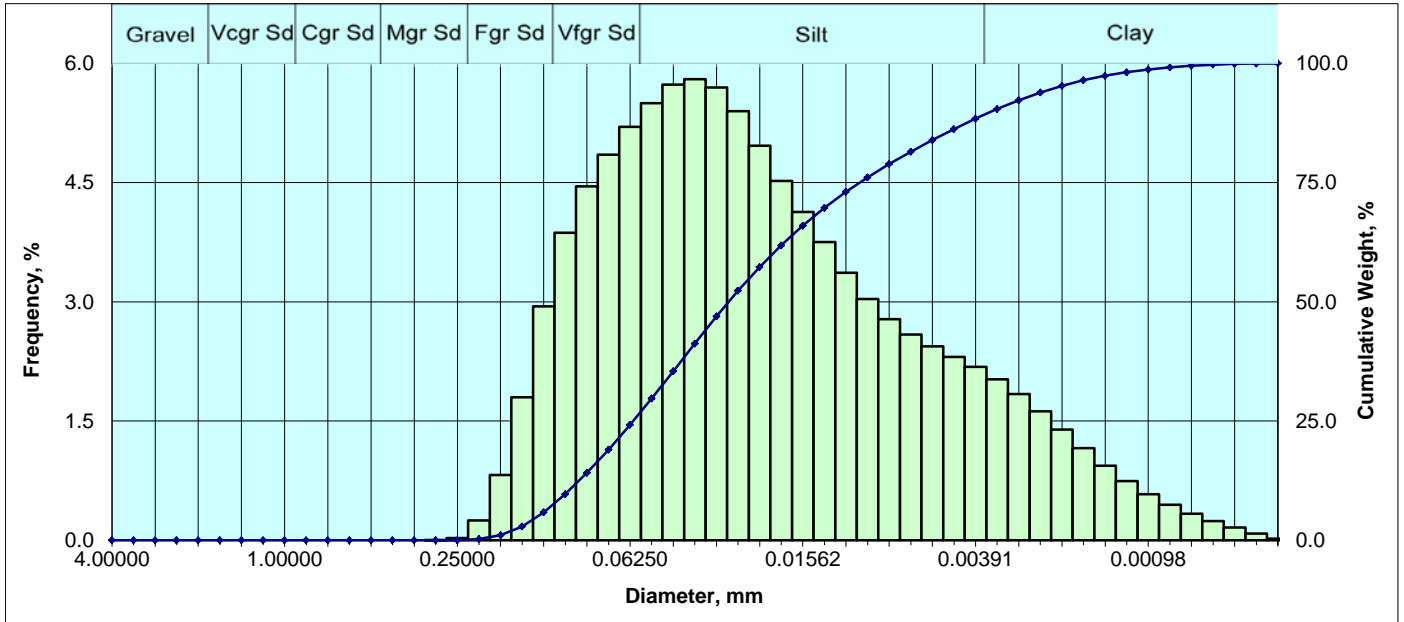
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.002	0.00
	100	0.005852	0.14865	2.75	0.171	0.17
	120	0.004921	0.12500	3.00	1.065	1.24
V. Fine Sand	140	0.004138	0.10511	3.25	2.218	3.46
	170	0.003480	0.08839	3.50	2.831	6.29
	200	0.002926	0.07433	3.75	3.056	9.34
	230	0.002461	0.06250	4.00	3.354	12.70
	Silt	270	0.002069	0.05256	4.25	3.722
325		0.001740	0.04419	4.50	3.942	20.36
400		0.001463	0.03716	4.75	3.951	24.31
450		0.001230	0.03125	5.00	3.896	28.21
500		0.001035	0.02628	5.25	3.751	31.96
635		0.000870	0.02210	5.50	3.517	35.48
		0.000732	0.01858	5.75	3.388	38.87
		0.000615	0.01562	6.00	3.494	42.36
		0.000517	0.01314	6.25	3.663	46.02
		0.000435	0.01105	6.50	3.568	49.59
		0.000366	0.00929	6.75	3.304	52.89
		0.000308	0.00781	7.00	3.065	55.96
		0.000259	0.00657	7.25	2.914	58.87
		0.000217	0.00552	7.50	2.838	61.71
		0.000183	0.00465	7.75	2.818	64.53
	0.000154	0.00391	8.00	2.851	67.38	
Clay		0.000129	0.00328	8.25	2.876	70.26
		0.000109	0.00276	8.50	2.875	73.13
		0.000091	0.00232	8.75	2.849	75.98
		0.000077	0.00195	9.00	2.817	78.80
		0.000065	0.00164	9.25	2.797	81.59
		0.000054	0.00138	9.50	2.815	84.41
		0.000046	0.00116	9.75	2.865	87.27
		0.000038	0.00098	10.00	2.855	90.13
		0.000032	0.00082	10.25	2.755	92.88
		0.000027	0.00069	10.50	2.490	95.37
		0.000023	0.00058	10.75	2.074	97.45
		0.000019	0.00049	11.00	1.518	98.97
		0.000016	0.00041	11.25	0.830	99.80
		0.000015	0.00038	11.50	0.204	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0108	0.0108	0.0108	
Mean	Silt sized			
(in)	0.0008	0.0003	0.0004	
(mm)	0.0193	0.0087	0.0094	
Sorting	V. Poor			
	3.821	2.621	2.383	
Skewness	Finely skewed			
	0.873	0.149	0.115	
Kurtosis	Platykurtic			
	0.237	0.351	0.750	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	12.70	54.68	32.62	87.30
Percentile [Weight, %]				
		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0038	0.0960	3.3809	
10	0.0028	0.0720	3.7956	
16	0.0021	0.0537	4.2194	
25	0.0014	0.0361	4.7910	
40	0.0007	0.0176	5.8265	
50	0.0004	0.0108	6.5287	
75	0.0001	0.0025	8.6590	
84	0.0001	0.0014	9.4609	
90	0.0000	0.0010	9.9877	
95	0.0000	0.0007	10.4596	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



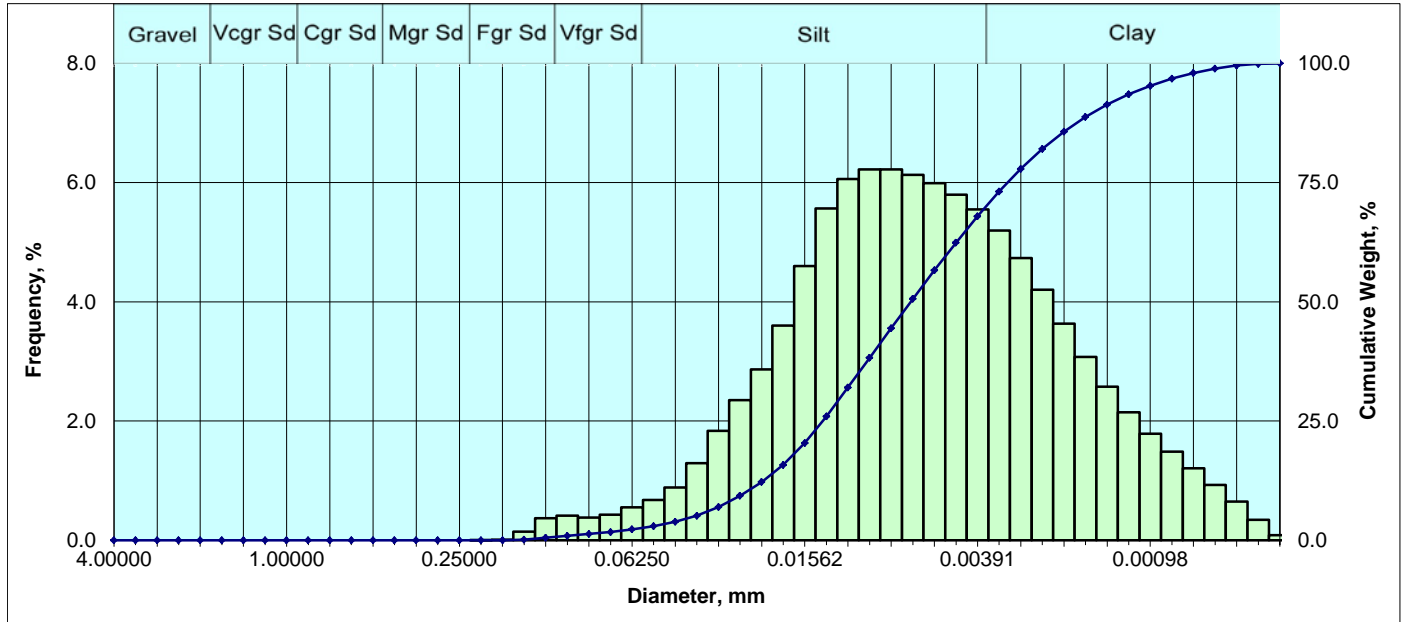
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.027	0.03
Fine Sand	70	0.008277	0.21022	2.25	0.249	0.28
	80	0.006960	0.17678	2.50	0.820	1.10
	100	0.005852	0.14865	2.75	1.801	2.90
	120	0.004921	0.12500	3.00	2.943	5.84
V. Fine Sand	140	0.004138	0.10511	3.25	3.869	9.71
	170	0.003480	0.08839	3.50	4.454	14.16
	200	0.002926	0.07433	3.75	4.852	19.02
	230	0.002461	0.06250	4.00	5.202	24.22
	Silt	270	0.002069	0.05256	4.25	5.498
325		0.001740	0.04419	4.50	5.732	35.45
400		0.001463	0.03716	4.75	5.800	41.25
450		0.001230	0.03125	5.00	5.698	46.95
500		0.001035	0.02628	5.25	5.399	52.34
635		0.000870	0.02210	5.50	4.965	57.31
		0.000732	0.01858	5.75	4.522	61.83
		0.000615	0.01562	6.00	4.129	65.96
		0.000517	0.01314	6.25	3.751	69.71
		0.000435	0.01105	6.50	3.367	73.08
		0.000366	0.00929	6.75	3.035	76.11
		0.000308	0.00781	7.00	2.781	78.89
Clay			0.000259	0.00657	7.25	2.589
		0.000217	0.00552	7.50	2.439	83.92
		0.000183	0.00465	7.75	2.308	86.23
		0.000154	0.00391	8.00	2.182	88.41
		0.000129	0.00328	8.25	2.027	90.44
		0.000109	0.00276	8.50	1.839	92.28
		0.000091	0.00232	8.75	1.624	93.90
		0.000077	0.00195	9.00	1.392	95.29
		0.000065	0.00164	9.25	1.158	96.45
		0.000054	0.00138	9.50	0.940	97.39
		0.000046	0.00116	9.75	0.744	98.13
		0.000038	0.00098	10.00	0.579	98.71
		0.000032	0.00082	10.25	0.446	99.16
	0.000027	0.00069	10.50	0.336	99.49	
	0.000023	0.00058	10.75	0.242	99.74	
	0.000019	0.00049	11.00	0.160	99.90	
	0.000016	0.00041	11.25	0.083	99.98	
	0.000015	0.00038	11.50	0.020	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0011	0.0011	0.0011	
(mm)	0.0284	0.0284	0.0284	
Mean	Silt sized			
(in)	0.0014	0.0008	0.0009	
(mm)	0.0355	0.0214	0.0235	
Sorting	Poor			
	2.480	1.959	1.892	
Skewness	Finely skewed			
	0.866	0.407	0.238	
Kurtosis	Mesokurtic			
	0.254	0.536	0.942	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	24.22	64.19	11.59	75.78
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0052	0.1318	2.9240	
10	0.0041	0.1040	3.2650	
16	0.0033	0.0831	3.5896	
25	0.0024	0.0611	4.0330	
40	0.0015	0.0387	4.6924	
50	0.0011	0.0284	5.1361	
75	0.0004	0.0099	6.6533	
84	0.0002	0.0055	7.5078	
90	0.0001	0.0034	8.1923	
95	0.0001	0.0020	8.9439	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



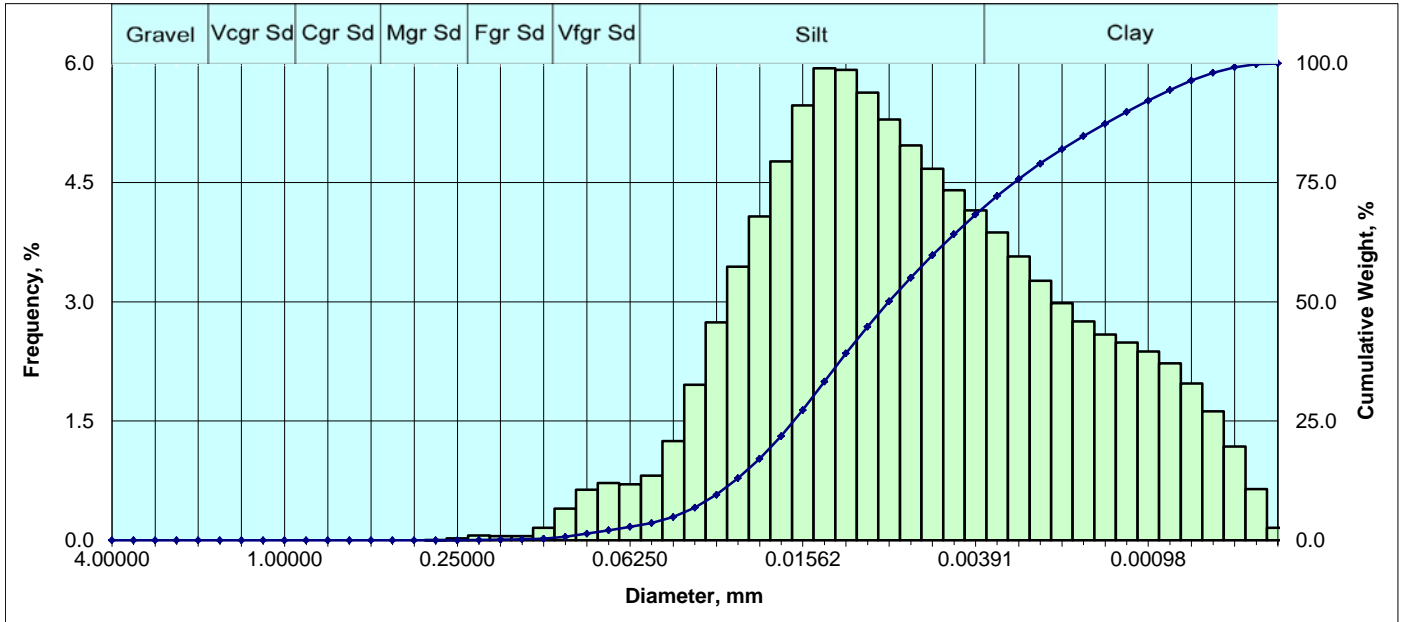
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.010	0.01
	100	0.005852	0.14865	2.75	0.147	0.16
	120	0.004921	0.12500	3.00	0.372	0.53
V. Fine Sand	140	0.004138	0.10511	3.25	0.416	0.94
	170	0.003480	0.08839	3.50	0.379	1.32
	200	0.002926	0.07433	3.75	0.429	1.75
	230	0.002461	0.06250	4.00	0.553	2.31
	Silt	270	0.002069	0.05256	4.25	0.678
325		0.001740	0.04419	4.50	0.888	3.87
400		0.001463	0.03716	4.75	1.291	5.16
450		0.001230	0.03125	5.00	1.835	7.00
500		0.001035	0.02628	5.25	2.352	9.35
635		0.000870	0.02210	5.50	2.867	12.22
		0.000732	0.01858	5.75	3.602	15.82
		0.000615	0.01562	6.00	4.598	20.42
		0.000517	0.01314	6.25	5.564	25.98
		0.000435	0.01105	6.50	6.063	32.05
		0.000366	0.00929	6.75	6.221	38.27
		0.000308	0.00781	7.00	6.219	44.48
		0.000259	0.00657	7.25	6.131	50.62
	0.000217	0.00552	7.50	5.989	56.60	
	0.000183	0.00465	7.75	5.795	62.40	
	0.000154	0.00391	8.00	5.551	67.95	
Clay		0.000129	0.00328	8.25	5.194	73.14
		0.000109	0.00276	8.50	4.736	77.88
		0.000091	0.00232	8.75	4.202	82.08
		0.000077	0.00195	9.00	3.634	85.71
		0.000065	0.00164	9.25	3.077	88.79
		0.000054	0.00138	9.50	2.575	91.37
		0.000046	0.00116	9.75	2.147	93.51
		0.000038	0.00098	10.00	1.787	95.30
		0.000032	0.00082	10.25	1.487	96.79
		0.000027	0.00069	10.50	1.206	97.99
		0.000023	0.00058	10.75	0.930	98.92
		0.000019	0.00049	11.00	0.647	99.57
		0.000016	0.00041	11.25	0.345	99.92
		0.000015	0.00038	11.50	0.085	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0067	0.0067	0.0067	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0003	
(mm)	0.0083	0.0063	0.0064	
Sorting	Poor			
	2.100	1.559	1.573	
Skewness	Near symmetrical			
	0.966	0.072	0.052	
Kurtosis	Mesokurtic			
	0.220	0.681	1.003	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	2.31	65.64	32.05	97.69
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0015	0.0381	4.7157	
10	0.0010	0.0253	5.3029	
16	0.0007	0.0185	5.7590	
25	0.0005	0.0136	6.2026	
40	0.0003	0.0089	6.8155	
50	0.0003	0.0067	7.2229	
75	0.0001	0.0031	8.3429	
84	0.0001	0.0021	8.8766	
90	0.0001	0.0015	9.3619	
95	0.0000	0.0010	9.9549	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



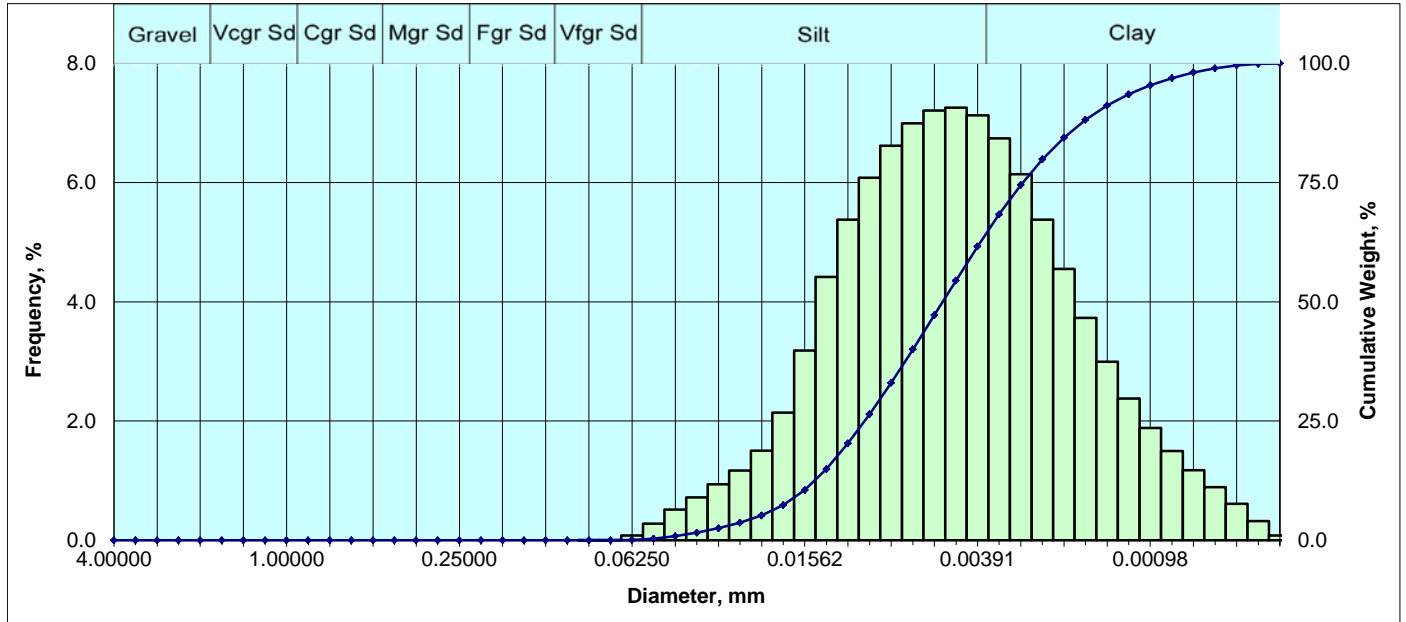
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.001	0.00
	60	0.009843	0.25000	2.00	0.022	0.02
Fine Sand	70	0.008277	0.21022	2.25	0.060	0.08
	80	0.006960	0.17678	2.50	0.054	0.14
	100	0.005852	0.14865	2.75	0.053	0.19
	120	0.004921	0.12500	3.00	0.159	0.35
V. Fine Sand	140	0.004138	0.10511	3.25	0.400	0.75
	170	0.003480	0.08839	3.50	0.637	1.39
	200	0.002926	0.07433	3.75	0.720	2.11
	230	0.002461	0.06250	4.00	0.705	2.81
Silt	270	0.002069	0.05256	4.25	0.812	3.63
	325	0.001740	0.04419	4.50	1.249	4.87
	400	0.001463	0.03716	4.75	1.957	6.83
	450	0.001230	0.03125	5.00	2.740	9.57
	500	0.001035	0.02628	5.25	3.440	13.01
	635	0.000870	0.02210	5.50	4.075	17.09
		0.000732	0.01858	5.75	4.768	21.86
		0.000615	0.01562	6.00	5.472	27.33
		0.000517	0.01314	6.25	5.938	33.27
		0.000435	0.01105	6.50	5.916	39.18
		0.000366	0.00929	6.75	5.634	44.82
	0.000308	0.00781	7.00	5.294	50.11	
	0.000259	0.00657	7.25	4.969	55.08	
	0.000217	0.00552	7.50	4.674	59.75	
	0.000183	0.00465	7.75	4.403	64.16	
	0.000154	0.00391	8.00	4.150	68.31	
Clay		0.000129	0.00328	8.25	3.872	72.18
		0.000109	0.00276	8.50	3.570	75.75
		0.000091	0.00232	8.75	3.263	79.01
		0.000077	0.00195	9.00	2.984	81.99
		0.000065	0.00164	9.25	2.753	84.75
		0.000054	0.00138	9.50	2.589	87.34
		0.000046	0.00116	9.75	2.487	89.82
		0.000038	0.00098	10.00	2.375	92.20
		0.000032	0.00082	10.25	2.225	94.42
		0.000027	0.00069	10.50	1.974	96.40
		0.000023	0.00058	10.75	1.623	98.02
		0.000019	0.00049	11.00	1.180	99.20
		0.000016	0.00041	11.25	0.643	99.84
		0.000015	0.00038	11.50	0.158	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0078	0.0078	0.0078	
Mean	Silt sized			
(in)	0.0004	0.0002	0.0003	
(mm)	0.0099	0.0063	0.0068	
Sorting	Poor			
	2.425	1.874	1.817	
Skewness	Finely skewed			
	0.888	0.225	0.155	
Kurtosis	Mesokurtic			
	0.238	0.548	0.931	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	2.81	65.49	31.69	97.19
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0017	0.0437	4.5148	
10	0.0012	0.0306	5.0289	
16	0.0009	0.0232	5.4289	
25	0.0007	0.0169	5.8883	
40	0.0004	0.0108	6.5337	
50	0.0003	0.0078	6.9943	
75	0.0001	0.0029	8.4439	
84	0.0001	0.0017	9.1777	
90	0.0000	0.0011	9.7672	
95	0.0000	0.0008	10.3187	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



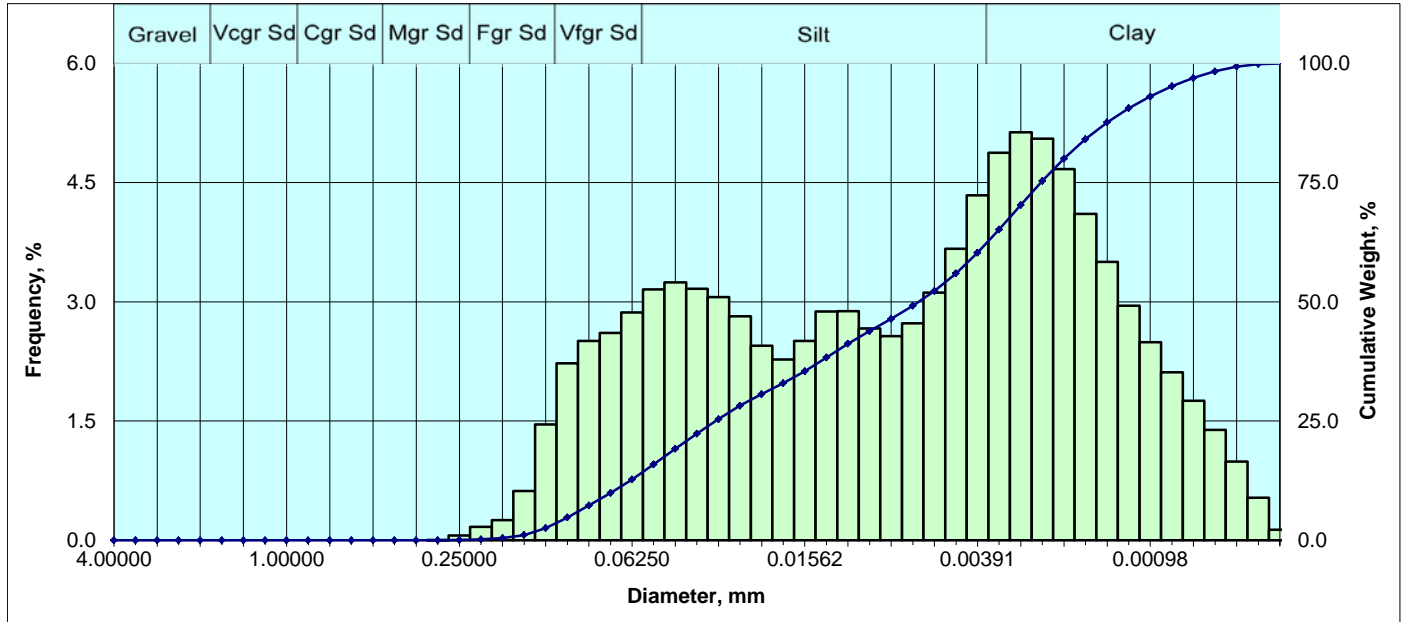
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.007	0.01
	230	0.002461	0.06250	4.00	0.081	0.09
Silt	270	0.002069	0.05256	4.25	0.280	0.37
	325	0.001740	0.04419	4.50	0.517	0.88
	400	0.001463	0.03716	4.75	0.721	1.61
	450	0.001230	0.03125	5.00	0.937	2.54
	500	0.001035	0.02628	5.25	1.171	3.71
	635	0.000870	0.02210	5.50	1.502	5.22
		0.000732	0.01858	5.75	2.142	7.36
		0.000615	0.01562	6.00	3.181	10.54
		0.000517	0.01314	6.25	4.416	14.96
		0.000435	0.01105	6.50	5.379	20.33
		0.000366	0.00929	6.75	6.083	26.42
		0.000308	0.00781	7.00	6.616	33.03
		0.000259	0.00657	7.25	6.991	40.02
	0.000217	0.00552	7.50	7.208	47.23	
	0.000183	0.00465	7.75	7.255	54.49	
	0.000154	0.00391	8.00	7.129	61.62	
Clay		0.000129	0.00328	8.25	6.740	68.36
		0.000109	0.00276	8.50	6.138	74.50
		0.000091	0.00232	8.75	5.381	79.88
		0.000077	0.00195	9.00	4.551	84.43
		0.000065	0.00164	9.25	3.733	88.16
		0.000054	0.00138	9.50	2.997	91.16
		0.000046	0.00116	9.75	2.376	93.53
		0.000038	0.00098	10.00	1.883	95.42
		0.000032	0.00082	10.25	1.500	96.92
		0.000027	0.00069	10.50	1.179	98.10
		0.000023	0.00058	10.75	0.889	98.99
		0.000019	0.00049	11.00	0.611	99.60
		0.000016	0.00041	11.25	0.325	99.92
		0.000015	0.00038	11.50	0.079	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0002	0.0002	0.0002
(mm)	0.0052	0.0052	0.0052
Mean	Silt sized		
(in)	0.0002	0.0002	0.0002
(mm)	0.0062	0.0050	0.0051
Sorting	Poor		
	1.888	1.340	1.349
Skewness	Near symmetrical		
	0.990	0.083	0.041
Kurtosis	Mesokurtic		
	0.238	0.672	1.001
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	0.09	61.53	38.38
Percentile [Weight, %]			
		Particle Diameter	
		[in.]	[mm]
5	0.0009	0.0227	5.4612
10	0.0006	0.0161	5.9545
16	0.0005	0.0127	6.2953
25	0.0004	0.0097	6.6878
40	0.0003	0.0066	7.2490
50	0.0002	0.0052	7.5903
75	0.0001	0.0027	8.5217
84	0.0001	0.0020	8.9745
90	0.0001	0.0015	9.3982
95	0.0000	0.0010	9.9408

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



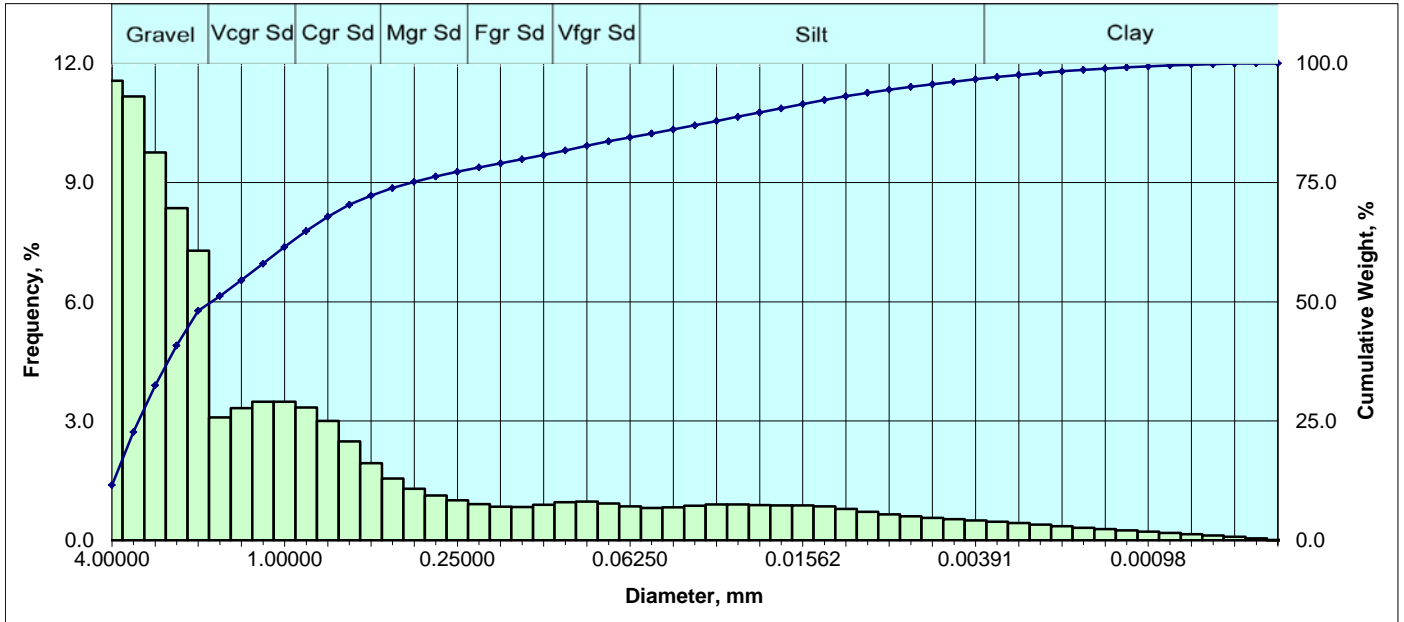
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.004	0.00
	60	0.009843	0.25000	2.00	0.062	0.07
Fine Sand	70	0.008277	0.21022	2.25	0.171	0.24
	80	0.006960	0.17678	2.50	0.254	0.49
	100	0.005852	0.14865	2.75	0.620	1.11
	120	0.004921	0.12500	3.00	1.459	2.57
V. Fine Sand	140	0.004138	0.10511	3.25	2.227	4.80
	170	0.003480	0.08839	3.50	2.508	7.31
	200	0.002926	0.07433	3.75	2.610	9.92
	230	0.002461	0.06250	4.00	2.866	12.78
	Silt	270	0.002069	0.05256	4.25	3.155
325		0.001740	0.04419	4.50	3.246	19.18
400		0.001463	0.03716	4.75	3.166	22.35
450		0.001230	0.03125	5.00	3.058	25.41
500		0.001035	0.02628	5.25	2.817	28.22
635		0.000870	0.02210	5.50	2.447	30.67
		0.000732	0.01858	5.75	2.274	32.94
		0.000615	0.01562	6.00	2.507	35.45
		0.000517	0.01314	6.25	2.877	38.33
		0.000435	0.01105	6.50	2.881	41.21
		0.000366	0.00929	6.75	2.664	43.87
		0.000308	0.00781	7.00	2.570	46.44
		0.000259	0.00657	7.25	2.730	49.18
	0.000217	0.00552	7.50	3.115	52.29	
	0.000183	0.00465	7.75	3.668	55.96	
	0.000154	0.00391	8.00	4.341	60.30	
Clay		0.000129	0.00328	8.25	4.875	65.17
		0.000109	0.00276	8.50	5.132	70.31
		0.000091	0.00232	8.75	5.051	75.36
		0.000077	0.00195	9.00	4.670	80.03
		0.000065	0.00164	9.25	4.106	84.13
		0.000054	0.00138	9.50	3.503	87.64
		0.000046	0.00116	9.75	2.952	90.59
		0.000038	0.00098	10.00	2.491	93.08
		0.000032	0.00082	10.25	2.115	95.19
		0.000027	0.00069	10.50	1.757	96.95
		0.000023	0.00058	10.75	1.391	98.34
		0.000019	0.00049	11.00	0.989	99.33
		0.000016	0.00041	11.25	0.537	99.87
		0.000015	0.00038	11.50	0.132	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0063	0.0063	0.0063	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0003	
(mm)	0.0172	0.0093	0.0082	
Sorting	V. Poor			
	3.689	2.493	2.301	
Skewness	Coarse skewed			
	1.380	-0.227	-0.194	
Kurtosis	Platykurtic			
	0.204	0.395	0.757	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	12.78	47.52	39.70	87.22
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0041	0.1038	3.2687	
10	0.0029	0.0740	3.7568	
16	0.0021	0.0524	4.2545	
25	0.0013	0.0320	4.9642	
40	0.0005	0.0119	6.3897	
50	0.0002	0.0063	7.3121	
75	0.0001	0.0024	8.7308	
84	0.0001	0.0017	9.2412	
90	0.0000	0.0012	9.6965	
95	0.0000	0.0008	10.2251	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



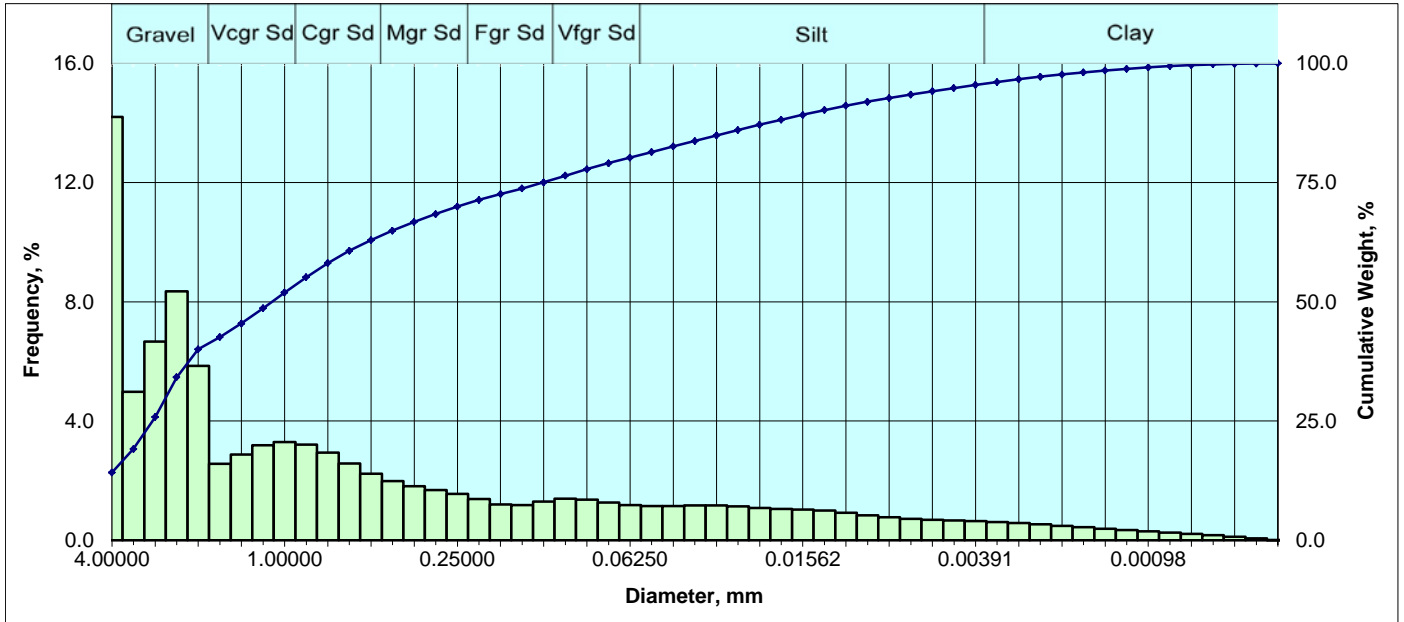
Particle Size Distribution					
	Diameter			Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	11.561
	6	0.132425	3.36359	-1.75	11.164
	7	0.111355	2.82843	-1.50	9.759
	8	0.093638	2.37841	-1.25	8.354
V Crse Sand	10	0.078740	2.00000	-1.00	7.285
	12	0.066212	1.68179	-0.75	3.094
	14	0.055678	1.41421	-0.50	3.324
	16	0.046819	1.18921	-0.25	3.489
Coarse Sand	18	0.039370	1.00000	0.00	3.491
	20	0.033106	0.84090	0.25	3.344
	25	0.027839	0.70711	0.50	3.003
	30	0.023410	0.59460	0.75	2.486
Medium Sand	35	0.019685	0.50000	1.00	1.941
	40	0.016553	0.42045	1.25	1.551
	45	0.013919	0.35355	1.50	1.299
	50	0.011705	0.29730	1.75	1.128
Fine Sand	60	0.009843	0.25000	2.00	1.006
	70	0.008277	0.21022	2.25	0.914
	80	0.006960	0.17678	2.50	0.847
	100	0.005852	0.14865	2.75	0.839
V. Fine Sand	120	0.004921	0.12500	3.00	0.894
	140	0.004138	0.10511	3.25	0.959
	170	0.003480	0.08839	3.50	0.975
	200	0.002926	0.07433	3.75	0.929
Silt	230	0.002461	0.06250	4.00	0.858
	270	0.002069	0.05256	4.25	0.813
	325	0.001740	0.04419	4.50	0.828
	400	0.001463	0.03716	4.75	0.869
	450	0.001230	0.03125	5.00	0.900
	500	0.001035	0.02628	5.25	0.902
	635	0.000870	0.02210	5.50	0.888
		0.000732	0.01858	5.75	0.880
		0.000615	0.01562	6.00	0.877
		0.000517	0.01314	6.25	0.853
Clay		0.000435	0.01105	6.50	0.792
		0.000366	0.00929	6.75	0.719
		0.000308	0.00781	7.00	0.655
		0.000259	0.00657	7.25	0.603
		0.000217	0.00552	7.50	0.561
		0.000183	0.00465	7.75	0.528
		0.000154	0.00391	8.00	0.500
		0.000129	0.00328	8.25	0.471
		0.000109	0.00276	8.50	0.437
		0.000091	0.00232	8.75	0.399
		0.000077	0.00195	9.00	0.358
		0.000065	0.00164	9.25	0.318
		0.000054	0.00138	9.50	0.280
		0.000046	0.00116	9.75	0.247
		0.000038	0.00098	10.00	0.216
	0.000032	0.00082	10.25	0.187	
	0.000027	0.00069	10.50	0.156	
	0.000023	0.00058	10.75	0.123	
	0.000019	0.00049	11.00	0.086	
	0.000016	0.00041	11.25	0.046	
	0.000015	0.00038	11.50	0.011	

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Very coarse sand sized		
(in)	0.0711	0.0711	0.0711
(mm)	1.8069	1.8069	1.8069
Mean	Coarse sand sized		
(in)	0.0709	0.0201	0.0306
(mm)	1.7999	0.5097	0.7772
Sorting	V. Poor		
	2.995	2.878	2.962
Skewness	Strongly fine skewed		
	0.598	1.058	0.620
Kurtosis	Lepokurtic		
	0.305	0.746	1.302
Component Percentages			
Gravel	Sand	Silt	Clay
48.12	36.37	12.17	3.34
			Silt + Clay
			15.50
Percentile [Weight. %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.2809	7.1356	-2.8350
10	0.1869	4.7462	-2.2468
16	0.1475	3.7470	-1.9057
25	0.1275	3.2388	-1.6955
40	0.0954	2.4235	-1.2771
50	0.0711	1.8069	-0.8535
75	0.0142	0.3610	1.4697
84	0.0027	0.0693	3.8504
90	0.0008	0.0209	5.5819
95	0.0003	0.0067	7.2173

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



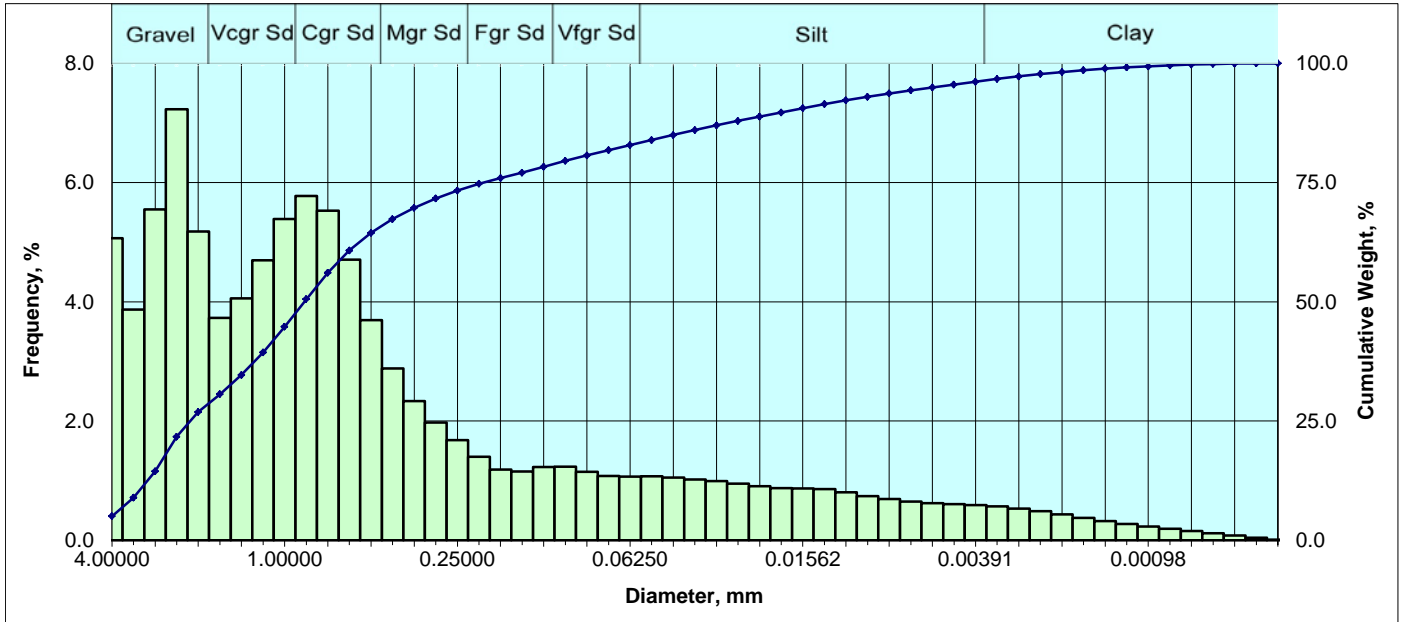
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	14.198	14.20
	6	0.132425	3.36359	-1.75	4.976	19.17
	7	0.111355	2.82843	-1.50	6.663	25.84
	8	0.093638	2.37841	-1.25	8.349	34.19
V Crse Sand	10	0.078740	2.00000	-1.00	5.849	40.04
	12	0.066212	1.68179	-0.75	2.565	42.60
	14	0.055678	1.41421	-0.50	2.879	45.48
	16	0.046819	1.18921	-0.25	3.186	48.66
Coarse Sand	18	0.039370	1.00000	0.00	3.298	51.96
	20	0.033106	0.84090	0.25	3.209	55.17
	25	0.027839	0.70711	0.50	2.944	58.12
	30	0.023410	0.59460	0.75	2.579	60.69
Medium Sand	35	0.019685	0.50000	1.00	2.235	62.93
	40	0.016553	0.42045	1.25	1.988	64.92
	45	0.013919	0.35355	1.50	1.818	66.73
	50	0.011705	0.29730	1.75	1.690	68.42
Fine Sand	60	0.009843	0.25000	2.00	1.560	69.98
	70	0.008277	0.21022	2.25	1.384	71.37
	80	0.006960	0.17678	2.50	1.208	72.58
	100	0.005852	0.14865	2.75	1.180	73.76
V. Fine Sand	120	0.004921	0.12500	3.00	1.301	75.06
	140	0.004138	0.10511	3.25	1.394	76.45
	170	0.003480	0.08839	3.50	1.362	77.81
	200	0.002926	0.07433	3.75	1.263	79.08
Silt	230	0.002461	0.06250	4.00	1.185	80.26
	270	0.002069	0.05256	4.25	1.150	81.41
	325	0.001740	0.04419	4.50	1.155	82.57
	400	0.001463	0.03716	4.75	1.166	83.73
	450	0.001230	0.03125	5.00	1.167	84.90
	500	0.001035	0.02628	5.25	1.138	86.04
	635	0.000870	0.02210	5.50	1.088	87.13
		0.000732	0.01858	5.75	1.049	88.17
		0.000615	0.01562	6.00	1.030	89.20
		0.000517	0.01314	6.25	0.997	90.20
Clay		0.000435	0.01105	6.50	0.922	91.12
		0.000366	0.00929	6.75	0.840	91.96
		0.000308	0.00781	7.00	0.772	92.74
		0.000259	0.00657	7.25	0.723	93.46
		0.000217	0.00552	7.50	0.688	94.15
		0.000183	0.00465	7.75	0.662	94.81
		0.000154	0.00391	8.00	0.643	95.45
		0.000129	0.00328	8.25	0.618	96.07
		0.000109	0.00276	8.50	0.583	96.65
		0.000091	0.00232	8.75	0.539	97.19
		0.000077	0.00195	9.00	0.489	97.68
		0.000065	0.00164	9.25	0.436	98.12
		0.000054	0.00138	9.50	0.387	98.50
		0.000046	0.00116	9.75	0.342	98.85
		0.000038	0.00098	10.00	0.301	99.15
	0.000032	0.00082	10.25	0.261	99.41	
	0.000027	0.00069	10.50	0.218	99.63	
	0.000023	0.00058	10.75	0.172	99.80	
	0.000019	0.00049	11.00	0.121	99.92	
	0.000016	0.00041	11.25	0.065	99.98	
	0.000015	0.00038	11.50	0.016	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0438	0.0438	0.0438	
(mm)	1.1126	1.1126	1.1126	
Mean	Coarse sand sized			
(in)	0.0595	0.0145	0.0209	
(mm)	1.5109	0.3674	0.5315	
Sorting	V. Poor			
	4.793	3.359	3.307	
Skewness	Strongly fine skewed			
	0.543	0.775	0.480	
Kurtosis	Mesokurtic			
	0.246	0.599	0.974	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
40.04	40.23	15.19	4.55	19.74
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2984	7.5793	-2.9221	
10	0.2218	5.6336	-2.4941	
16	0.1484	3.7696	-1.9144	
25	0.1140	2.8957	-1.5339	
40	0.0788	2.0023	-1.0017	
50	0.0438	1.1126	-0.1539	
75	0.0050	0.1260	2.9881	
84	0.0014	0.0358	4.8037	
90	0.0005	0.0136	6.1961	
95	0.0002	0.0044	7.8201	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



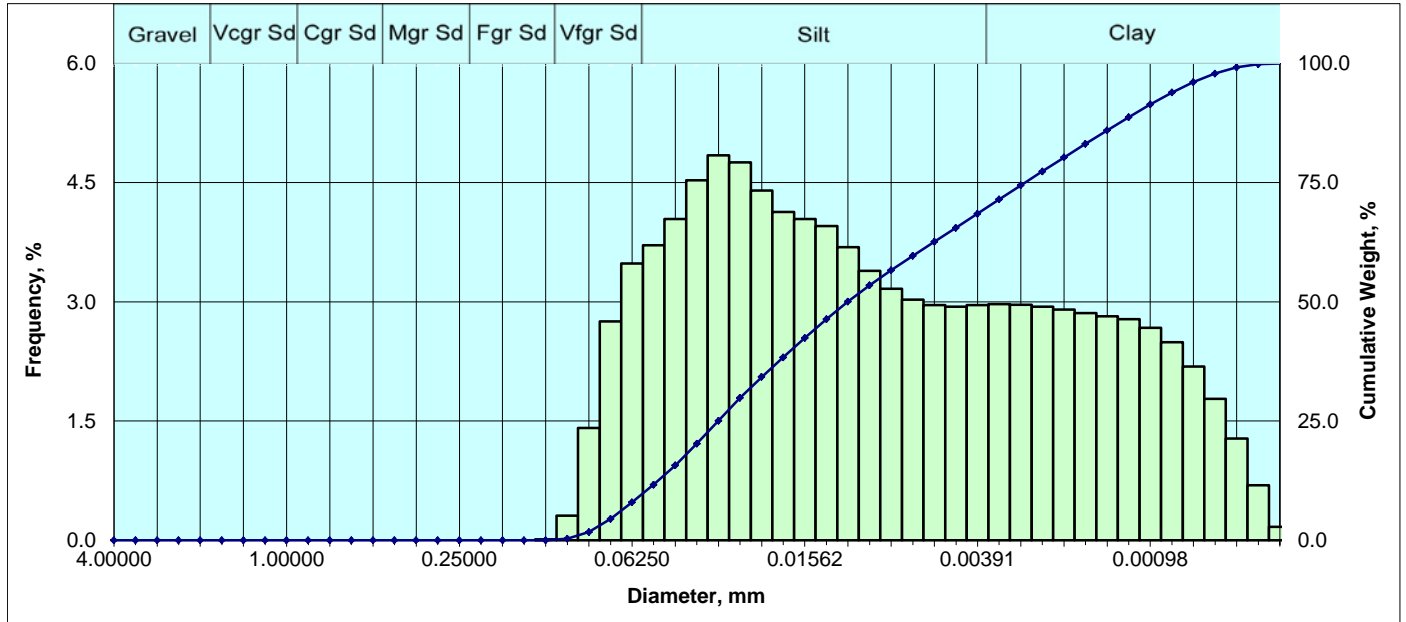
Particle Size Distribution					
	Diameter			Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	5.065
	6	0.132425	3.36359	-1.75	3.870
	7	0.111355	2.82843	-1.50	5.549
	8	0.093638	2.37841	-1.25	7.228
V Crse Sand	10	0.078740	2.00000	-1.00	5.179
	12	0.066212	1.68179	-0.75	3.730
	14	0.055678	1.41421	-0.50	4.060
	16	0.046819	1.18921	-0.25	4.694
Coarse Sand	18	0.039370	1.00000	0.00	5.390
	20	0.033106	0.84090	0.25	5.778
	25	0.027839	0.70711	0.50	5.528
	30	0.023410	0.59460	0.75	4.708
Medium Sand	35	0.019685	0.50000	1.00	3.695
	40	0.016553	0.42045	1.25	2.884
	45	0.013919	0.35355	1.50	2.335
	50	0.011705	0.29730	1.75	1.973
Fine Sand	60	0.009843	0.25000	2.00	1.683
	70	0.008277	0.21022	2.25	1.402
	80	0.006960	0.17678	2.50	1.187
	100	0.005852	0.14865	2.75	1.156
V. Fine Sand	120	0.004921	0.12500	3.00	1.231
	140	0.004138	0.10511	3.25	1.234
	170	0.003480	0.08839	3.50	1.146
	200	0.002926	0.07433	3.75	1.077
Silt	230	0.002461	0.06250	4.00	1.069
	270	0.002069	0.05256	4.25	1.072
	325	0.001740	0.04419	4.50	1.054
	400	0.001463	0.03716	4.75	1.020
	450	0.001230	0.03125	5.00	0.991
	500	0.001035	0.02628	5.25	0.953
	635	0.000870	0.02210	5.50	0.905
		0.000732	0.01858	5.75	0.875
		0.000615	0.01562	6.00	0.870
		0.000517	0.01314	6.25	0.858
Clay		0.000435	0.01105	6.50	0.807
		0.000366	0.00929	6.75	0.744
		0.000308	0.00781	7.00	0.690
		0.000259	0.00657	7.25	0.651
		0.000217	0.00552	7.50	0.625
		0.000183	0.00465	7.75	0.606
		0.000154	0.00391	8.00	0.591
		0.000129	0.00328	8.25	0.569
		0.000109	0.00276	8.50	0.534
		0.000091	0.00232	8.75	0.488
		0.000077	0.00195	9.00	0.434
		0.000065	0.00164	9.25	0.377
		0.000054	0.00138	9.50	0.322
		0.000046	0.00116	9.75	0.273
		0.000038	0.00098	10.00	0.230
		0.000032	0.00082	10.25	0.192
		0.000027	0.00069	10.50	0.156
		0.000023	0.00058	10.75	0.120
	0.000019	0.00049	11.00	0.083	
	0.000016	0.00041	11.25	0.044	
	0.000015	0.00038	11.50	0.011	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Coarse sand sized			
(in)	0.0337	0.0337	0.0337	
(mm)	0.8559	0.8559	0.8559	
Mean	Medium sand sized			
(in)	0.0461	0.0148	0.0195	
(mm)	1.1707	0.3769	0.4954	
Sorting	V. Poor			
	3.244	2.859	2.874	
Skewness	Strongly fine skewed			
	0.770	0.881	0.471	
Kurtosis	Lepokurtic			
	0.298	0.668	1.151	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
26.89	55.96	13.31	3.83	17.15
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.1603	4.0714	-2.0255	
10	0.1284	3.2609	-1.7053	
16	0.1076	2.7341	-1.4511	
25	0.0842	2.1383	-1.0964	
40	0.0460	1.1673	-0.2232	
50	0.0337	0.8559	0.2245	
75	0.0080	0.2032	2.2988	
84	0.0020	0.0520	4.2664	
90	0.0007	0.0176	5.8249	
95	0.0002	0.0055	7.5119	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



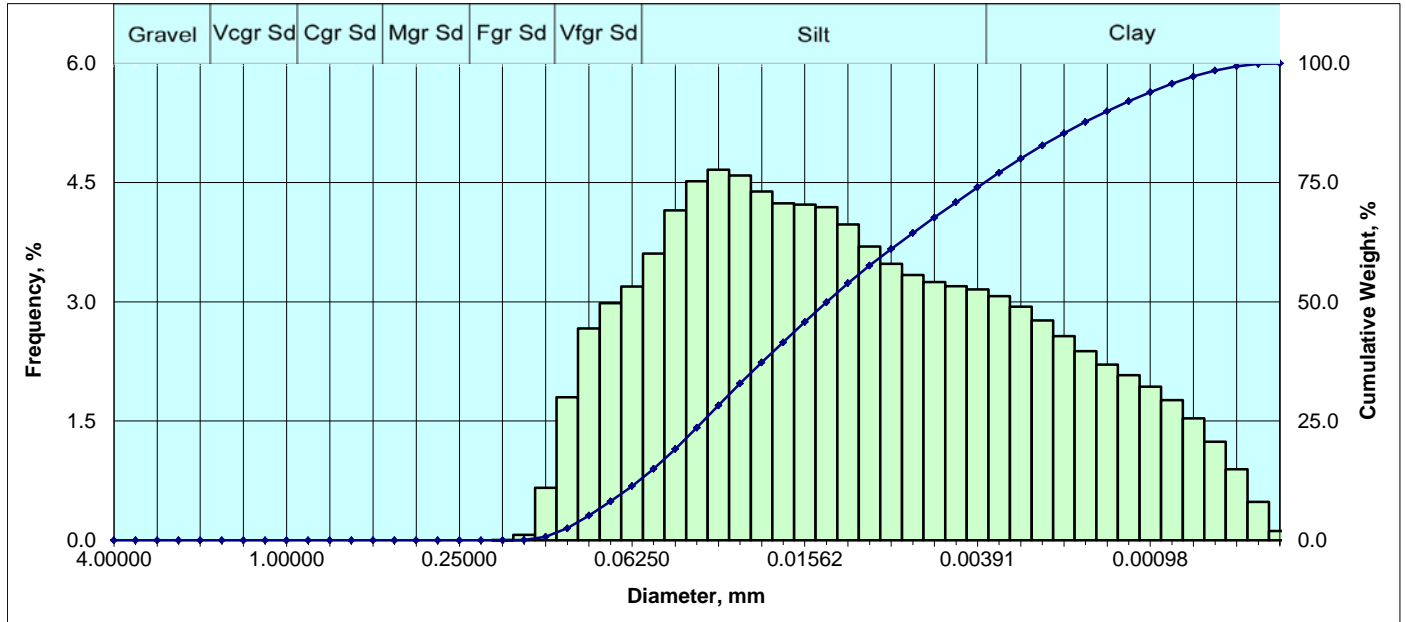
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.012	0.01
V. Fine Sand	140	0.004138	0.10511	3.25	0.308	0.32
	170	0.003480	0.08839	3.50	1.413	1.73
	200	0.002926	0.07433	3.75	2.752	4.49
	230	0.002461	0.06250	4.00	3.481	7.97
Silt	270	0.002069	0.05256	4.25	3.710	11.68
	325	0.001740	0.04419	4.50	4.043	15.72
	400	0.001463	0.03716	4.75	4.528	20.25
	450	0.001230	0.03125	5.00	4.845	25.09
	500	0.001035	0.02628	5.25	4.753	29.85
	635	0.000870	0.02210	5.50	4.400	34.25
		0.000732	0.01858	5.75	4.129	38.37
		0.000615	0.01562	6.00	4.043	42.42
		0.000517	0.01314	6.25	3.952	46.37
		0.000435	0.01105	6.50	3.689	50.06
		0.000366	0.00929	6.75	3.389	53.45
Clay		0.000308	0.00781	7.00	3.164	56.61
		0.000259	0.00657	7.25	3.026	59.64
		0.000217	0.00552	7.50	2.958	62.60
		0.000183	0.00465	7.75	2.937	65.53
		0.000154	0.00391	8.00	2.958	68.49
		0.000129	0.00328	8.25	2.972	71.46
		0.000109	0.00276	8.50	2.965	74.43
		0.000091	0.00232	8.75	2.938	77.37
		0.000077	0.00195	9.00	2.902	80.27
		0.000065	0.00164	9.25	2.859	83.13
		0.000054	0.00138	9.50	2.820	85.95
	0.000046	0.00116	9.75	2.782	88.73	
	0.000038	0.00098	10.00	2.675	91.40	
	0.000032	0.00082	10.25	2.491	93.89	
	0.000027	0.00069	10.50	2.186	96.08	
	0.000023	0.00058	10.75	1.778	97.86	
	0.000019	0.00049	11.00	1.279	99.14	
	0.000016	0.00041	11.25	0.692	99.83	
	0.000015	0.00038	11.50	0.169	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0111	0.0111	0.0111	
Mean	Silt sized			
(in)	0.0007	0.0003	0.0004	
(mm)	0.0170	0.0083	0.0091	
Sorting	V. Poor			
	3.423	2.404	2.200	
Skewness	Finely skewed			
	0.827	0.242	0.176	
Kurtosis	Platykurtic			
	0.256	0.370	0.760	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	7.97	60.53	31.51	92.03
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0029	0.0726	3.7844	
10	0.0022	0.0570	4.1316	
16	0.0017	0.0438	4.5143	
25	0.0012	0.0314	4.9948	
40	0.0007	0.0174	5.8454	
50	0.0004	0.0111	6.4957	
75	0.0001	0.0027	8.5454	
84	0.0001	0.0016	9.3229	
90	0.0000	0.0011	9.8635	
95	0.0000	0.0008	10.3710	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



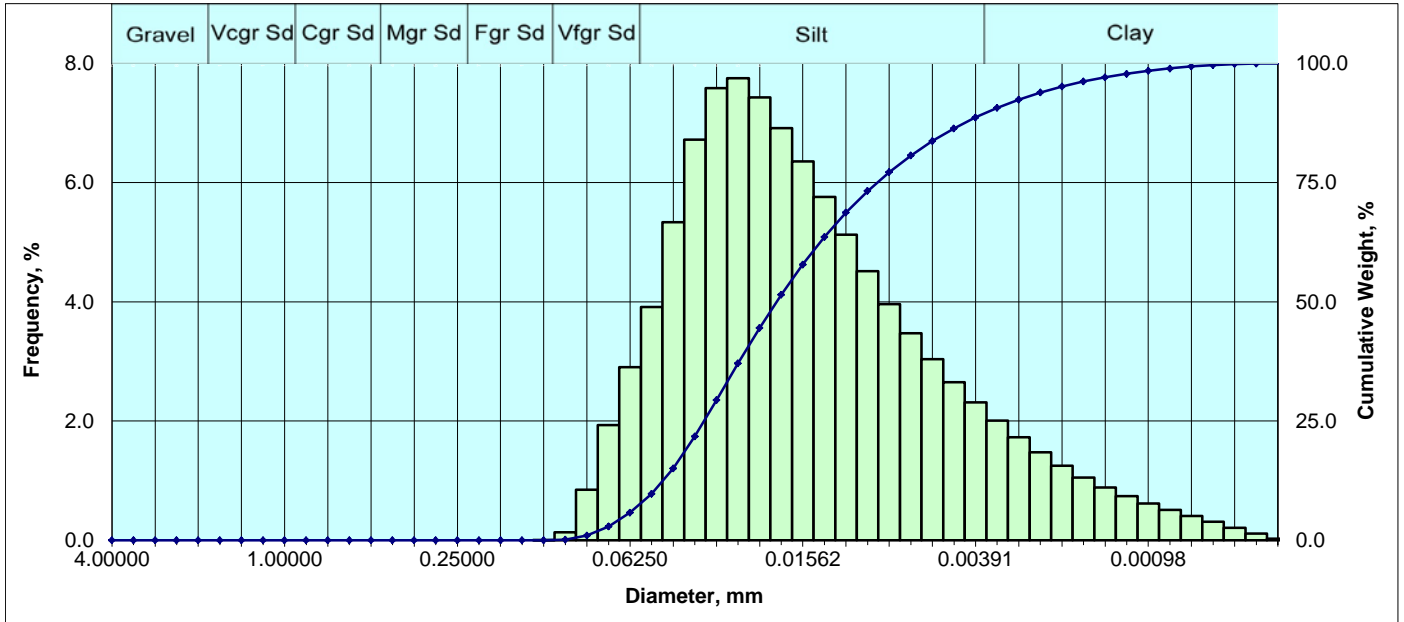
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
Medium Sand	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
Fine Sand	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.069	0.07
	120	0.004921	0.12500	3.00	0.661	0.73
	140	0.004138	0.10511	3.25	1.800	2.53
V. Fine Sand	170	0.003480	0.08839	3.50	2.665	5.20
	200	0.002926	0.07433	3.75	2.984	8.18
	230	0.002461	0.06250	4.00	3.193	11.37
	270	0.002069	0.05256	4.25	3.607	14.98
	325	0.001740	0.04419	4.50	4.152	19.13
Silt	400	0.001463	0.03716	4.75	4.518	23.65
	450	0.001230	0.03125	5.00	4.662	28.31
	500	0.001035	0.02628	5.25	4.589	32.90
	635	0.000870	0.02210	5.50	4.387	37.29
		0.000732	0.01858	5.75	4.241	41.53
		0.000615	0.01562	6.00	4.221	45.75
		0.000517	0.01314	6.25	4.189	49.94
		0.000435	0.01105	6.50	3.973	53.91
		0.000366	0.00929	6.75	3.695	57.61
		0.000308	0.00781	7.00	3.477	61.08
		0.000259	0.00657	7.25	3.336	64.42
		0.000217	0.00552	7.50	3.251	67.67
		0.000183	0.00465	7.75	3.196	70.87
		0.000154	0.00391	8.00	3.156	74.02
	Clay		0.000129	0.00328	8.25	3.073
		0.000109	0.00276	8.50	2.940	80.04
		0.000091	0.00232	8.75	2.764	82.80
		0.000077	0.00195	9.00	2.570	85.37
		0.000065	0.00164	9.25	2.378	87.75
		0.000054	0.00138	9.50	2.212	89.96
		0.000046	0.00116	9.75	2.077	92.04
		0.000038	0.00098	10.00	1.931	93.97
		0.000032	0.00082	10.25	1.764	95.73
		0.000027	0.00069	10.50	1.533	97.26
		0.000023	0.00058	10.75	1.242	98.51
		0.000019	0.00049	11.00	0.893	99.40
		0.000016	0.00041	11.25	0.483	99.88
		0.000015	0.00038	11.50	0.118	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0131	0.0131	0.0131	
Mean	Silt sized			
(in)	0.0008	0.0004	0.0004	
(mm)	0.0196	0.0104	0.0112	
Sorting	V. Poor			
	3.092	2.277	2.148	
Skewness	Finely skewed			
	0.875	0.245	0.156	
Kurtosis	Platykurtic			
	0.240	0.463	0.838	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	11.37	62.65	25.98	88.63
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0035	0.0896	3.4801	
10	0.0027	0.0676	3.8872	
16	0.0020	0.0505	4.3076	
25	0.0014	0.0354	4.8181	
40	0.0008	0.0198	5.6549	
50	0.0005	0.0131	6.2536	
75	0.0001	0.0037	8.0750	
84	0.0001	0.0022	8.8614	
90	0.0001	0.0014	9.5046	
95	0.0000	0.0009	10.1411	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



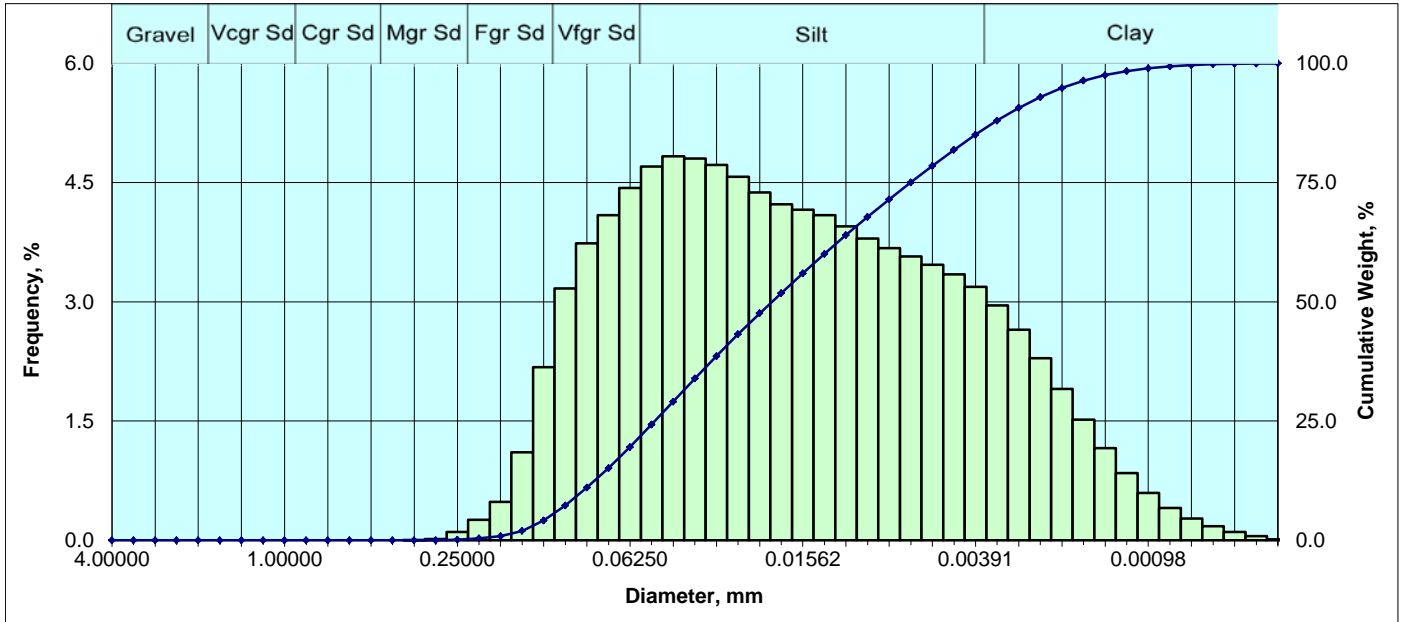
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.002	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.133	0.13
	170	0.003480	0.08839	3.50	0.846	0.98
	200	0.002926	0.07433	3.75	1.935	2.92
	230	0.002461	0.06250	4.00	2.902	5.82
	Silt	270	0.002069	0.05256	4.25	3.914
325		0.001740	0.04419	4.50	5.337	15.07
400		0.001463	0.03716	4.75	6.723	21.79
450		0.001230	0.03125	5.00	7.584	29.38
500		0.001035	0.02628	5.25	7.753	37.13
635		0.000870	0.02210	5.50	7.429	44.56
		0.000732	0.01858	5.75	6.914	51.47
		0.000615	0.01562	6.00	6.355	57.83
		0.000517	0.01314	6.25	5.761	63.59
		0.000435	0.01105	6.50	5.126	68.71
		0.000366	0.00929	6.75	4.514	73.23
		0.000308	0.00781	7.00	3.962	77.19
		0.000259	0.00657	7.25	3.473	80.66
	0.000217	0.00552	7.50	3.040	83.70	
	0.000183	0.00465	7.75	2.654	86.36	
	0.000154	0.00391	8.00	2.314	88.67	
Clay		0.000129	0.00328	8.25	2.006	90.68
		0.000109	0.00276	8.50	1.727	92.40
		0.000091	0.00232	8.75	1.475	93.88
		0.000077	0.00195	9.00	1.251	95.13
		0.000065	0.00164	9.25	1.054	96.18
		0.000054	0.00138	9.50	0.884	97.07
		0.000046	0.00116	9.75	0.740	97.81
		0.000038	0.00098	10.00	0.616	98.42
		0.000032	0.00082	10.25	0.508	98.93
		0.000027	0.00069	10.50	0.407	99.34
		0.000023	0.00058	10.75	0.309	99.65
		0.000019	0.00049	11.00	0.212	99.86
		0.000016	0.00041	11.25	0.112	99.97
		0.000015	0.00038	11.50	0.027	100.00

Sorting Statistics (Folk)						
Parameter	Trask	Inman	Folk			
Median	Silt sized					
(in)	0.0008	0.0008	0.0008			
(mm)	0.0193	0.0193	0.0193			
Mean	Silt sized					
(in)	0.0009	0.0006	0.0007			
(mm)	0.0216	0.0153	0.0166			
Sorting	Poor					
	2.004	1.497	1.513			
Skewness	Finely skewed					
	0.895	0.505	0.262			
Kurtosis	Mesokurtic					
	0.268	0.686	1.031			
Component Percentages						
Gravel	Sand	Silt	Clay	Silt + Clay		
0.00	5.82	82.85	11.33	94.18		
Percentile [Weight, %]				Particle Diameter		
	(in.)	(mm)	(phi)			
5	0.0026	0.0658	3.9251			
10	0.0021	0.0521	4.2616			
16	0.0017	0.0432	4.5321			
25	0.0014	0.0347	4.8505			
40	0.0010	0.0247	5.3415			
50	0.0008	0.0193	5.6930			
75	0.0003	0.0086	6.8565			
84	0.0002	0.0054	7.5259			
90	0.0001	0.0035	8.1607			
95	0.0001	0.0020	8.9719			

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



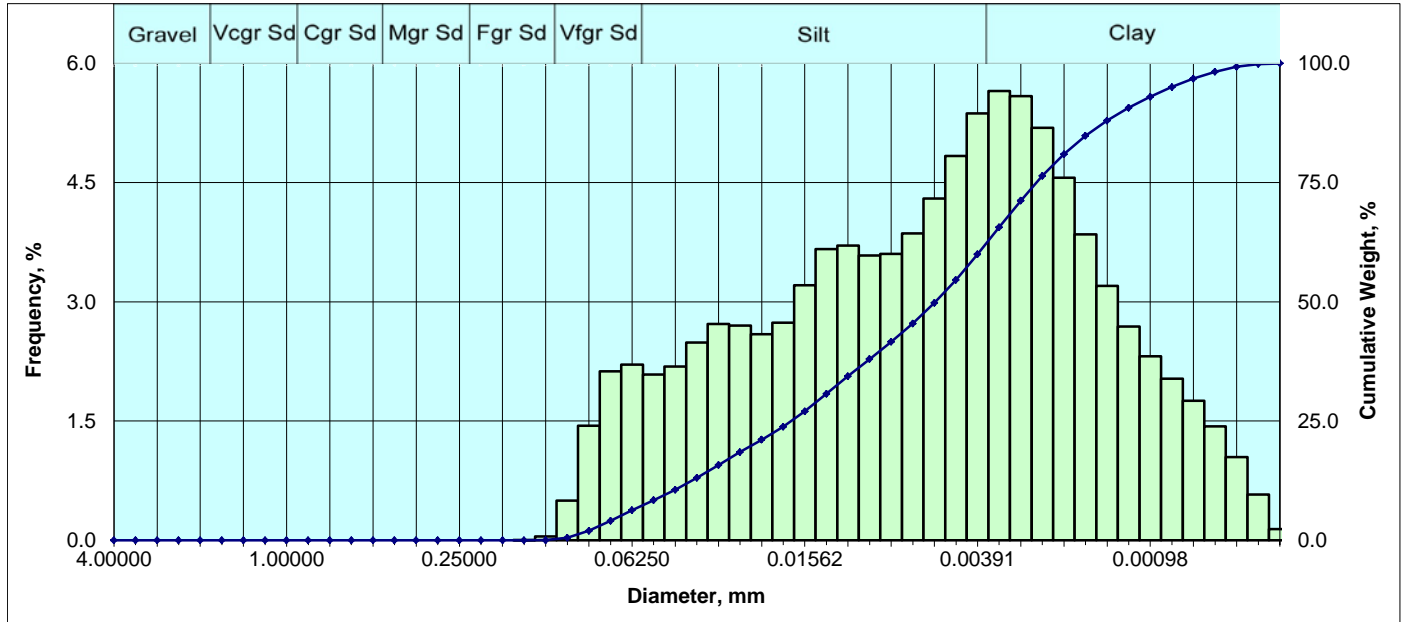
Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.015	0.01
	60	0.009843	0.25000	2.00	0.105	0.12
Fine Sand	70	0.008277	0.21022	2.25	0.258	0.38
	80	0.006960	0.17678	2.50	0.483	0.86
	100	0.005852	0.14865	2.75	1.108	1.97
	120	0.004921	0.12500	3.00	2.179	4.15
V. Fine Sand	140	0.004138	0.10511	3.25	3.167	7.31
	170	0.003480	0.08839	3.50	3.738	11.05
	200	0.002926	0.07433	3.75	4.088	15.14
	230	0.002461	0.06250	4.00	4.431	19.57
	Silt	270	0.002069	0.05256	4.25	4.704
325		0.001740	0.04419	4.50	4.830	29.11
400		0.001463	0.03716	4.75	4.804	33.91
450		0.001230	0.03125	5.00	4.724	38.63
500		0.001035	0.02628	5.25	4.575	43.21
635		0.000870	0.02210	5.50	4.377	47.59
		0.000732	0.01858	5.75	4.228	51.81
		0.000615	0.01562	6.00	4.157	55.97
		0.000517	0.01314	6.25	4.092	60.06
		0.000435	0.01105	6.50	3.948	64.01
		0.000366	0.00929	6.75	3.797	67.81
Clay		0.000308	0.00781	7.00	3.674	71.48
		0.000259	0.00657	7.25	3.570	75.05
		0.000217	0.00552	7.50	3.468	78.52
		0.000183	0.00465	7.75	3.345	81.87
		0.000154	0.00391	8.00	3.189	85.06
		0.000129	0.00328	8.25	2.954	88.01
		0.000109	0.00276	8.50	2.650	90.66
		0.000091	0.00232	8.75	2.292	92.95
		0.000077	0.00195	9.00	1.905	94.86
		0.000065	0.00164	9.25	1.518	96.37
		0.000054	0.00138	9.50	1.161	97.53
Clay		0.000046	0.00116	9.75	0.846	98.38
		0.000038	0.00098	10.00	0.595	98.98
		0.000032	0.00082	10.25	0.408	99.38
		0.000027	0.00069	10.50	0.272	99.66
		0.000023	0.00058	10.75	0.176	99.83
		0.000019	0.00049	11.00	0.105	99.94
		0.000016	0.00041	11.25	0.052	99.99
		0.000015	0.00038	11.50	0.013	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0201	0.0201	0.0201	
Mean	Silt sized			
(in)	0.0011	0.0007	0.0007	
(mm)	0.0289	0.0173	0.0182	
Sorting	Poor			
	2.791	2.059	1.932	
Skewness	Finely skewed			
	0.915	0.197	0.121	
Kurtosis	Platykurtic			
	0.248	0.447	0.825	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	19.57	65.48	14.94	80.43
Percentile [Weight, %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0047	0.1196	3.0631	
10	0.0037	0.0931	3.4251	
16	0.0028	0.0720	3.7952	
25	0.0020	0.0513	4.2848	
40	0.0012	0.0298	5.0702	
50	0.0008	0.0201	5.6374	
75	0.0003	0.0066	7.2460	
84	0.0002	0.0042	7.9124	
90	0.0001	0.0029	8.4336	
95	0.0001	0.0019	9.0219	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



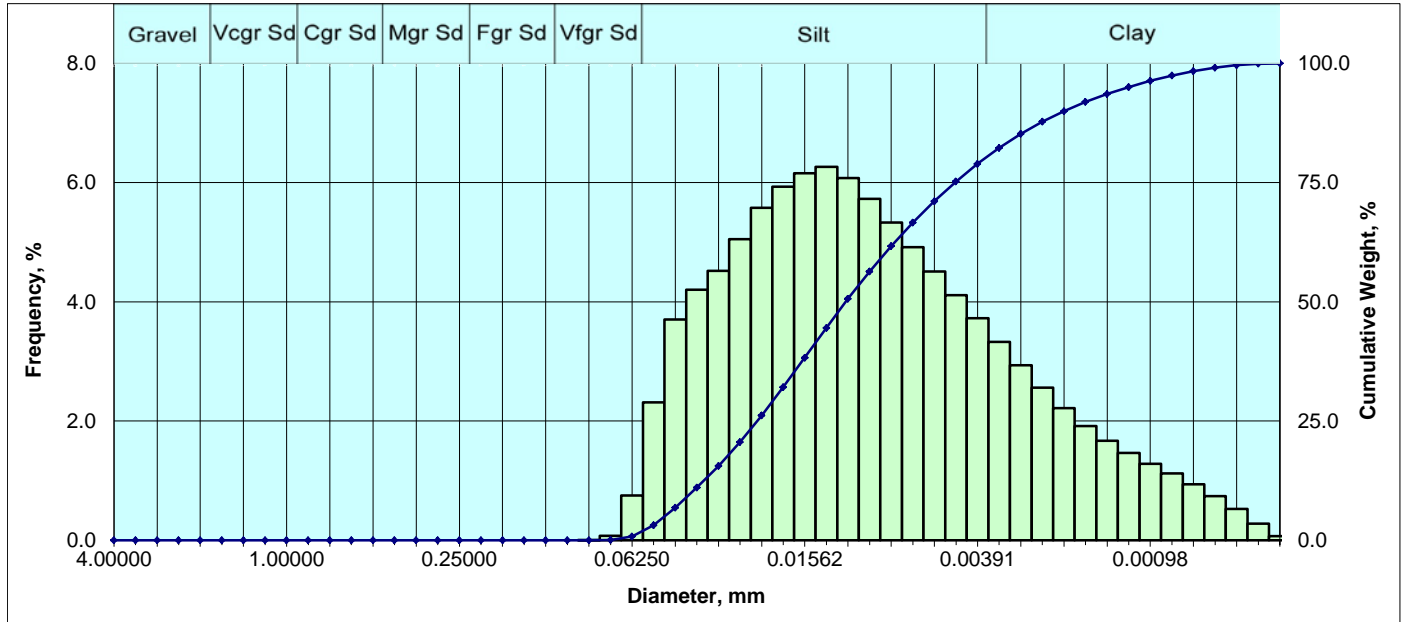
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.047	0.05
V. Fine Sand	140	0.004138	0.10511	3.25	0.501	0.55
	170	0.003480	0.08839	3.50	1.441	1.99
	200	0.002926	0.07433	3.75	2.125	4.11
	230	0.002461	0.06250	4.00	2.212	6.33
	Silt	270	0.002069	0.05256	4.25	2.084
325		0.001740	0.04419	4.50	2.186	10.60
400		0.001463	0.03716	4.75	2.489	13.09
450		0.001230	0.03125	5.00	2.720	15.81
500		0.001035	0.02628	5.25	2.700	18.51
635		0.000870	0.02210	5.50	2.592	21.10
		0.000732	0.01858	5.75	2.738	23.84
		0.000615	0.01562	6.00	3.209	27.05
		0.000517	0.01314	6.25	3.663	30.71
		0.000435	0.01105	6.50	3.709	34.42
		0.000366	0.00929	6.75	3.584	38.00
		0.000308	0.00781	7.00	3.604	41.61
		0.000259	0.00657	7.25	3.859	45.47
		0.000217	0.00552	7.50	4.301	49.77
	0.000183	0.00465	7.75	4.834	54.60	
	0.000154	0.00391	8.00	5.372	59.97	
Clay		0.000129	0.00328	8.25	5.652	65.62
		0.000109	0.00276	8.50	5.588	71.21
		0.000091	0.00232	8.75	5.190	76.40
		0.000077	0.00195	9.00	4.560	80.96
		0.000065	0.00164	9.25	3.848	84.81
		0.000054	0.00138	9.50	3.201	88.01
		0.000046	0.00116	9.75	2.690	90.70
		0.000038	0.00098	10.00	2.314	93.02
		0.000032	0.00082	10.25	2.035	95.05
		0.000027	0.00069	10.50	1.755	96.80
		0.000023	0.00058	10.75	1.433	98.24
		0.000019	0.00049	11.00	1.045	99.28
		0.000016	0.00041	11.25	0.575	99.86
		0.000015	0.00038	11.50	0.142	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0055	0.0055	0.0055	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0100	0.0073	0.0066	
Sorting	V. Poor			
	2.678	2.088	2.014	
Skewness	Coarse skewed			
	1.193	-0.224	-0.170	
Kurtosis	Mesokurtic			
	0.166	0.532	0.923	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	6.33	53.65	40.03	93.67
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0027	0.0696	3.8450	
10	0.0018	0.0465	4.4274	
16	0.0012	0.0309	5.0166	
25	0.0007	0.0175	5.8358	
40	0.0003	0.0085	6.8832	
50	0.0002	0.0055	7.5112	
75	0.0001	0.0024	8.6781	
84	0.0001	0.0017	9.1936	
90	0.0000	0.0012	9.6805	
95	0.0000	0.0008	10.2433	

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



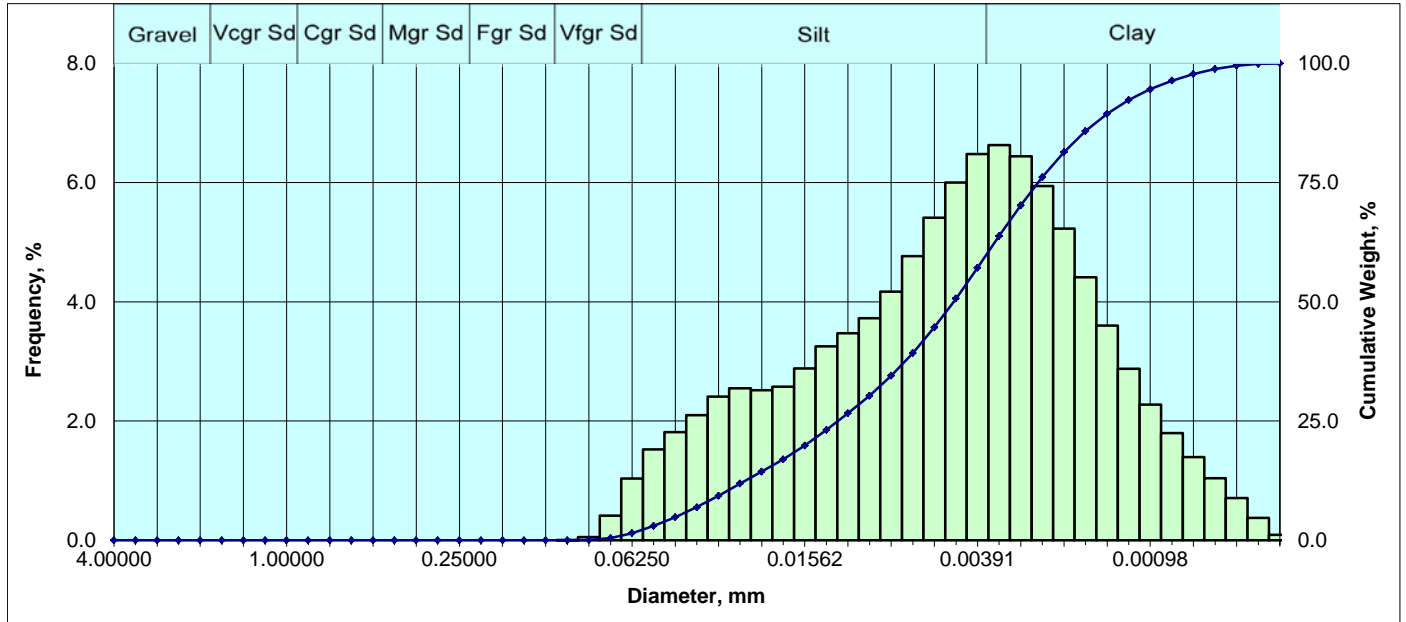
Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.001	0.00
	200	0.002926	0.07433	3.75	0.076	0.08
	230	0.002461	0.06250	4.00	0.750	0.83
	Silt	270	0.002069	0.05256	4.25	2.316
325		0.001740	0.04419	4.50	3.703	6.85
400		0.001463	0.03716	4.75	4.201	11.05
450		0.001230	0.03125	5.00	4.520	15.57
500		0.001035	0.02628	5.25	5.049	20.62
635		0.000870	0.02210	5.50	5.580	26.20
		0.000732	0.01858	5.75	5.930	32.13
		0.000615	0.01562	6.00	6.158	38.29
		0.000517	0.01314	6.25	6.264	44.55
		0.000435	0.01105	6.50	6.079	50.63
		0.000366	0.00929	6.75	5.727	56.36
		0.000308	0.00781	7.00	5.329	61.68
		0.000259	0.00657	7.25	4.916	66.60
		0.000217	0.00552	7.50	4.509	71.11
	0.000183	0.00465	7.75	4.111	75.22	
	0.000154	0.00391	8.00	3.723	78.94	
Clay		0.000129	0.00328	8.25	3.328	82.27
		0.000109	0.00276	8.50	2.937	85.21
		0.000091	0.00232	8.75	2.561	87.77
		0.000077	0.00195	9.00	2.218	89.99
		0.000065	0.00164	9.25	1.917	91.90
		0.000054	0.00138	9.50	1.667	93.57
		0.000046	0.00116	9.75	1.465	95.04
		0.000038	0.00098	10.00	1.285	96.32
		0.000032	0.00082	10.25	1.120	97.44
		0.000027	0.00069	10.50	0.941	98.38
		0.000023	0.00058	10.75	0.742	99.12
		0.000019	0.00049	11.00	0.525	99.65
		0.000016	0.00041	11.25	0.282	99.93
		0.000015	0.00038	11.50	0.069	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0004	0.0004	0.0004
(mm)	0.0113	0.0113	0.0113
Mean	Silt sized		
(in)	0.0005	0.0004	0.0004
(mm)	0.0138	0.0096	0.0101
Sorting	Poor		
	2.214	1.686	1.657
Skewness	Finely skewed		
	0.922	0.347	0.178
Kurtosis	Mesokurtic		
	0.248	0.593	0.960
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	0.83	78.12	21.06
Percentile [Weight, %]			
		Particle Diameter	
		(in.)	(mm)
5	0.0019	0.0484	4.3700
10	0.0015	0.0389	4.6835
16	0.0012	0.0308	5.0198
25	0.0009	0.0230	5.4426
40	0.0006	0.0149	6.0642
50	0.0004	0.0113	6.4721
75	0.0002	0.0047	7.7355
84	0.0001	0.0030	8.3919
90	0.0001	0.0020	9.0016
95	0.0000	0.0012	9.7433

** Distribution pattern precludes calculation of these statistical parameters.



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.001	0.00
	170	0.003480	0.08839	3.50	0.056	0.06
	200	0.002926	0.07433	3.75	0.413	0.47
	230	0.002461	0.06250	4.00	1.039	1.51
	Silt	270	0.002069	0.05256	4.25	1.525
325		0.001740	0.04419	4.50	1.816	4.85
400		0.001463	0.03716	4.75	2.101	6.95
450		0.001230	0.03125	5.00	2.412	9.36
500		0.001035	0.02628	5.25	2.551	11.91
635		0.000870	0.02210	5.50	2.516	14.43
		0.000732	0.01858	5.75	2.578	17.01
		0.000615	0.01562	6.00	2.883	19.89
		0.000517	0.01314	6.25	3.254	23.15
		0.000435	0.01105	6.50	3.471	26.62
		0.000366	0.00929	6.75	3.725	30.34
		0.000308	0.00781	7.00	4.169	34.51
		0.000259	0.00657	7.25	4.765	39.28
	0.000217	0.00552	7.50	5.410	44.69	
	0.000183	0.00465	7.75	6.003	50.69	
	0.000154	0.00391	8.00	6.479	57.17	
Clay		0.000129	0.00328	8.25	6.630	63.80
		0.000109	0.00276	8.50	6.441	70.24
		0.000091	0.00232	8.75	5.944	76.18
		0.000077	0.00195	9.00	5.229	81.41
		0.000065	0.00164	9.25	4.410	85.82
		0.000054	0.00138	9.50	3.605	89.43
		0.000046	0.00116	9.75	2.879	92.30
		0.000038	0.00098	10.00	2.277	94.58
		0.000032	0.00082	10.25	1.799	96.38
		0.000027	0.00069	10.50	1.398	97.78
		0.000023	0.00058	10.75	1.044	98.82
		0.000019	0.00049	11.00	0.710	99.53
		0.000016	0.00041	11.25	0.376	99.91
	0.000015	0.00038	11.50	0.092	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0047	0.0047	0.0047	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0072	0.0059	0.0055	
Sorting	Poor			
	2.233	1.747	1.713	
Skewness	Coarse skewed			
	1.134	-0.248	-0.171	
Kurtosis	Mesokurtic			
	0.168	0.585	0.979	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	1.51	55.66	42.83	98.49
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0017	0.0437	4.5165	
10	0.0012	0.0300	5.0585	
16	0.0008	0.0200	5.6470	
25	0.0005	0.0120	6.3782	
40	0.0003	0.0064	7.2811	
50	0.0002	0.0047	7.7190	
75	0.0001	0.0024	8.6967	
84	0.0001	0.0018	9.1415	
90	0.0001	0.0013	9.5466	
95	0.0000	0.0009	10.0545	

** Distribution pattern precludes calculation of these statistical parameters.



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 0006608-038

CL File Number: 1800210

APPENDIX 2

Chain of Custody

CHAIN-OF-CUSTODY FORM

No 12865

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID NERT FIELD PERSON# _____
 PROJECT LOCATION Henderson, NV DATE 1/11/18 PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006608-038 LABORATORY Core Labs
 SAMPLER Amy Manson YEAR 2018 SIGNATURE Amy Manson

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	HOLD *	COMMENTS
✓ PT-ES1-14.5-14.8	1/10/18	1112	14.5-14.8	✓	S	1	U	NO	✓	X	
✓ PT-ES1-24.2-24.5		1120	24.2-24.5	✓					✓	X	* HOLD samples pending instruction from J. Donovan / Ramboll
✓ PT-ES1-35.2-35.5		1127	35.2-35.5	✓					✓	X	
✓ PT-ES1-44.0-44.3		1135	44.0-44.3	✓					✓	X	
✓ PT-ES1-54.0-54.5		1150	54.0-54.5	✓					✓	X	
✓ PT-ES1-65.3-65.8		1159	65.3-65.8	✓					✓	X	
✓ PT-ES1-74.0-74.5		1207	74.0-74.5	✓					✓	X	
✓ PT-ES1-85.5-86.0		1217	85.5-86.0	✓					✓	X	
✓ PT-ES1-94.0-94.5		1225	94.0-94.5	✓					✓	X	
✓ PT-ES1-103.8-104.3		1232	103.8-104.3	✓					✓	X	
✓ PT-ES1-114.5-115.0		1240	114.5-115.0	✓					✓	X	
TOTAL											(cooler # 4 of 4)

H = HCL; N = HNO; S = H2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY <u>Amy Manson (FedEx)</u>	TIME/DATE <u>1015 1/11/18</u>	RECEIVED BY <u>Tracy Bishop Core Lab</u>	TIME/DATE <u>1607 1/15/18</u>	TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____
				SAMPLE INTEGRITY INTACT Y N

SWBU Office Locations:
 □ 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 □ 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
 □ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 □ 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

CHAIN-OF-CUSTODY FORM

No. 13148

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID NERT FIELD PERSON# _____
 PROJECT LOCATION Henderson, NV DATE 1/11/18 PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006608-038 LABORATORY Core Labs
 SAMPLER Amy Manion YEAR 2018 SIGNATURE Amy Manion

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	HOLD*	COMMENTS
✓ PT-ES4-15.2-15.5	12/12/17	1345	15.2-15.5	/	S	1	U	NO		XX	* HOLD samples pending instructions from J. Donovan / Ramboll
✓ PT-ES4-25.0-25.3	↓	1347	25.0-25.3	/	↓	↓	↓	↓	XX		
✓ PT-ES4-35.2-35.5	↓	1349	35.2-35.5	/	↓	↓	↓	↓	XX		
✓ PT-ES4-44.7-45.0	↓	1351	44.7-45.0	/	↓	↓	↓	↓	XX		
✓ PT-ES4-57.5-58.0	↓	1438	57.5-58.0	/	↓	↓	↓	↓	XX		
✓ PT-ES4-68.2-68.7	12/13/17	1120	68.2-68.7	/	↓	↓	↓	↓	XX		
✓ PT-ES4-82.0-82.5	↓	1125	82.0-82.5	/	↓	↓	↓	↓	XX		
✓ PT-ES4-94.5-95.0	↓	1130	94.5-95.0	/	↓	↓	↓	↓	XX		
✓ PT-ES4-114.0-114.5	↓	1135	114.0-114.5	/	↓	↓	↓	↓	XX	(SWM)	
TOTAL											(cooler # 1 of 4)

RELINQUISHED BY <u>Amy Manion (FedEx)</u>	TIME/DATE <u>1015 / 1/11/18</u>	RECEIVED BY COMPANY <u>Gracey Bishop - Core Labs</u>	TIME/DATE <u>1537 1/15/18</u>	TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
		SAMPLE INTEGRITY		SAMPLE INTEGRITY
		INTACT Y N TEMP _____		INTACT Y N

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 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

H = HCL; N = HNO; S = H2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

CHAIN-OF-CUSTODY FORM

No. 13147

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID NERT FIELD PERSON# _____
 PROJECT LOCATION Henderson, NV DATE 1/11/18 PROJECT MANAGER J. Donovan/R. Russell
 PROJECT NUMBER 1690006608-038 LABORATORY Core Labs
 SAMPLER Keith Heideman / Amy Mason YEAR 2018 SIGNATURE [Signature]

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
✓ PT-ES31-15.0-15.5	01-4-18	0820	15.0-15.5	/	S	1	U	N	HOLD*	*HOLD samples pending instructions from J. Donovan/R. Russell
✓ PT-ES31-25.0-25.5		0840	25.0-25.5	/						
✓ PT-ES31-35.0-35.5		0910	35.0-35.5	/						
✓ PT-ES31-45.0-45.5		0935	45.0-45.5	/						
✓ PT-ES31-55.0-55.5		0950	55.0-55.5	/						
✓ PT-ES31-68.0-68.5		1040	68.0-68.5	/						
✓ PT-ES31-82.0-82.5		1055	82.0-82.5	/						
✓ PT-ES31-95.0-95.5		1105	95.0-95.5	/						
✓ PT-ES31-115.0-115.5		1135	115.0-115.5	/						
TOTAL										(cooler # 3 of 4)

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY <u>[Signature]</u> (FedEx)	TIME/DATE <u>1015 1/11/18</u>	RECEIVED BY COMPANY <u>Tracey Bishop Core Labs</u>	TIME/DATE <u>1357 1/15/18</u>	TURNAROUND TIME (CIRCLE ONE) SAME DAY 72 HOURS 24 HOURS 5 DAYS 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
SAMPLE INTEGRITY		SAMPLE INTEGRITY		
INTACT Y N TEMP _____		INTACT Y N		

CHAIN-OF-CUSTODY FORM

№ 12867

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID NERT FIELD PERSON# _____
 PROJECT LOCATION Henderson, NV DATE 1/11/18 PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006608-038 LABORATORY Core Labs
 SAMPLER Amy Maurion YEAR 2018 SIGNATURE Amy Maurion

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	HOLD *	COMMENTS
✓ PT-ESB3-14.5-14.8	12/17/17	1230	14.5-14.8	✓	S	1	U	NO		XX	
✓ PT-ESB3-29.5-29.8		1240	29.5-29.8	✓						XX	* HOLD samples pending instruction from J. Donovan / Ramboll
✓ PT-ESB3-44.5-44.8		1249	44.5-44.8	✓						XX	
✓ PT-ESB3-54.5-55.0		1420	54.5-55.0	✓						XX	
✓ PT-ESB3-64.5-65.0		1430	64.5-65.0	✓						XX	
✓ PT-ESB3-77.0-77.5		1515	77.0-77.5	✓						XX	
✓ PT-ESB3-94.5-95.0		1530	94.5-95.0	✓						XX	
✓ PT-ESB3-114.5-115.0		1600	114.5-115.0	✓						XX	
✓ PT-ESB3-132.0-132.5	12/18/17	0758	132.0-132.5	✓						XX	
✓ PT-ESB3-147.5-148.0		0825	147.5-148.0	✓						XX	
TOTAL											(cooler # 2 of 4)

RELINQUISHED BY <u>Amy Maurion (FedEx)</u>	TIME/DATE <u>1015 1/11/18</u>	RECEIVED BY COMPANY <u>Gracey Buhag / Core Labs</u>	TIME/DATE <u>1546 1/15/18</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY 72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	24 HOURS 5 DAYS	48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N

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 - 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

H = HCL; N = HNO; S = H₂SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 0006608-038 (Task M22D)

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 1 (sent 1/11/18)

Date: January 19, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
ES-1	14.5 - 14.8	PT-ES1-14.5-14.8	Glass jar	X	X (1)							X
ES-1	24.2 - 24.5	PT-ES1-24.2-24.5	Glass jar	X	X (1)							X
ES-1	35.2 - 35.5	PT-ES1-35.2-35.5	Glass jar	X	X (1)							X
ES-1	44.0 - 44.3	PT-ES1-44.0-44.3	Glass jar	X	X (1)							X
ES-1	54.0 - 54.5	PT-ES1-54.0-54.5	wrapped core	X	X	X	X	X	V	46 ft	8 ft	X
ES-1	65.3 - 65.8	PT-ES1-65.3-65.8	wrapped core	X	X	X	X	X				X
ES-1	74.0 - 74.5	PT-ES1-74.0-74.5	wrapped core	X	X	X	X	X				X
ES-1	85.5 - 86.0	PT-ES1-85.5-86.0	wrapped core	X	X	X	X	X	V	46 ft	39.5 ft	X
ES-1	94.0 - 94.5	PT-ES1-94.0-94.5	wrapped core	X	X	X	X	X				X
ES-1	103.8 - 104.3	PT-ES1-103.8-104.3	wrapped core	X	X	X	X	X				X
ES-1	114.5 - 115.0	PT-ES1-114.5-115.0	wrapped core	X	X	X	X	X	V	46 ft	68.5 ft	X
ES-4	15.2 - 15.5	PT-ES4-15.2-15.5	Glass jar	X	X (1)							X
ES-4	25.0 - 25.3	PT-ES4-25.0-25.3	Glass jar	X	X (1)							X
ES-4	35.2 - 35.5	PT-ES4-35.2-35.5	Glass jar	X	X (1)							X
ES-4	44.7 - 45.0	PT-ES4-44.7-45.0	Glass jar	X	X (1)							X
ES-4	57.5 - 58.0	PT-ES4-57.5-58.0	wrapped core	X	X	X	X	X	V	48 ft	9.5 ft	X
ES-4	68.2 - 68.7	PT-ES4-68.2-68.7	wrapped core	X	X	X	X	X	V	48 ft	20.5 ft	X
ES-4	82.0 - 82.5	PT-ES4-82.0-82.5	wrapped core	X	X	X	X	X	V	48 ft	34 ft	X
ES-4	94.5 - 95.0	PT-ES4-94.5-95.0	wrapped core	X	X	X	X	X	V	48 ft	46.5 ft	X
ES-4	114.0 - 114.5	PT-ES4-114.0-114.5	wrapped core	X	X	X	X	X	V	48 ft	66 ft	X

To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 0006608-038 (Task M22D)

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 1 (sent 1/11/18)

Date: January 19, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
ES-31	15.0 - 15.5	PT-ES31-15.0-15.5	Glass jar	X	X (1)							X
ES-31	25.0 - 25.5	PT-ES31-25.0-25.5	Glass jar	X	X (1)							X
ES-31	35.2 - 35.5	PT-ES31-35.2-35.5	Glass jar	X	X (1)							X
ES-31	45.0 - 45.5	PT-ES31-45.0-45.5	wrapped core	X	X	X	X	X				X
ES-31	55.0 - 55.5	PT-ES31-55.0-55.5	wrapped core	X	X	X	X	X	V	45.5 ft	9.5 ft	X
ES-31	68.0 - 68.5	PT-ES31-68.0-68.5	wrapped core	X	X	X	X	X				X
ES-31	82.0 - 82.5	PT-ES31-82.0-82.5	wrapped core	X	X	X	X	X	V	45.5 ft	36.5 ft	X
ES-31	95.0 - 95.5	PT-ES31-95.0-95.5	wrapped core	X	X	X	X	X	V	45.5 ft	49.5 ft	X
ES-31	115.0 - 115.5	PT-ES31-115.0-115.5	wrapped core	X	X	X	X	X				X
ESB-3	14.5 - 15.0	PT-ESB3-14.5-15.0	Glass jar	X	X (1)							X
ESB-3	29.5 - 29.8	PT-ESB3-29.5-29.8	Glass jar	X	X (1)							X
ESB-3	44.5 - 44.8	PT-ESB3-44.5-45.8	Glass jar	X	X (1)							X
ESB-3	54.5 - 55.0	PT-ESB3-54.5-55.0	wrapped core	X	X	X	X	X	V	53 ft	1.5-2 ft	X
ESB-3	64.5 - 65.0	PT-ESB3-64.5-65.0	wrapped core	X	X	X	X	X	V	53 ft	11.5 ft	X
ESB-3	77.0 - 77.5	PT-ESB3-77.0-77.5	wrapped core	X	X	X	X	X	V	53 ft	24 ft	X
ESB-3	94.5 - 95.0	PT-ESB3-94.5-95.0	wrapped core	X	X	X	X	X	V	53 ft	41.5 ft	X
ESB-3	114.5 - 115.0	PT-ESB3-114.5-115.0	wrapped core	X	X	X	X	X	V	53 ft	61.5 ft	X
ESB-3	132.0 - 132.5	PT-ESB3-132.0-132.5	wrapped core	X	X	X	X	X				X
ESB-3	147.5 - 148.0	PT-ESB3-147.5-148.0	wrapped core	X	X	X	X	X				X
TOTALS:				39	39	25	25	25	16			39

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 0006608-038

CL File Number: 1800210
Date: 2/14/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES1-14.5-14.8	Medium Grain Sand	0.7346	1.64	16.92	41.83	19.74	14.9	4.9	19.9
PT-ES1-24.2-24.5	Medium Grain Sand	1.4219	7.21	33.68	29.15	9.97	14.0	5.9	20.0
PT-ES1-35.2-35.5	Medium Grain Sand	0.2809	3.78	13.06	29.02	14.11	26.0	14.0	40.0
PT-ES1-44.0-44.3	Medium Grain Sand	1.6257	20.61	25.35	23.17	11.11	13.3	6.5	19.8
PT-ES1-54.0-54.5	Silt	0.0250	0.00	0.00	2.59	26.05	57.5	13.9	71.4
PT-ES1-65.3-65.8	Silt	0.0213	0.00	0.00	0.07	22.06	64.8	13.1	77.9
PT-ES1-74.0-74.5	Silt	0.0192	0.00	0.00	0.00	15.65	68.9	15.4	84.3
PT-ES1-85.5-86.0	Silt	0.0211	0.00	0.00	0.23	25.95	59.1	14.7	73.8
PT-ES1-94.0-94.5	Silt	0.0202	0.00	0.00	0.00	17.95	68.2	13.9	82.0
PT-ES1-103.8-104.3	Silt	0.0349	0.00	0.00	0.00	38.11	50.8	11.1	61.9
PT-ES1-114.5-115.0	Silt	0.0166	0.00	0.00	0.00	15.68	66.0	18.3	84.3
PT-ES4-15.2-15.5	Coarse Grain Sand	2.2097	27.15	26.31	25.69	7.92	9.3	3.6	12.9
PT-ES4-25.0-25.3	Medium Grain Sand	1.2941	28.64	19.68	22.69	11.95	13.5	3.6	17.0
PT-ES4-35.2-35.5	Medium Grain Sand	1.1267	17.13	22.04	24.78	9.42	18.4	8.2	26.6
PT-ES4-44.7-45.0	Medium Grain Sand	0.6384	12.60	20.86	22.17	11.39	25.3	7.7	33.0
PT-ES4-57.5-58.0	Silt	0.0438	0.00	0.00	0.41	44.34	44.7	10.6	55.3
PT-ES4-68.2-68.7	Silt	0.0242	0.00	0.00	0.00	27.00	58.2	14.8	73.0
PT-ES4-82.0-82.5	Silt	0.0116	0.00	0.00	0.00	10.49	65.7	23.8	89.5
PT-ES4-94.5-95.0	Silt	0.0186	0.00	0.00	0.00	16.20	68.9	14.9	83.8
PT-ES4-114.0-114.5	Silt	0.0366	0.00	0.00	0.00	34.12	55.6	10.3	65.9
PT-ES31-15.0-15.5	Medium Grain Sand	1.4382	25.33	25.14	27.75	10.09	9.4	2.3	11.7
PT-ES31-25.0-25.5	Medium Grain Sand	1.8253	31.48	25.95	22.94	7.18	9.4	3.0	12.4
PT-ES31-35.2-35.5	Medium Grain Sand	0.1289	11.94	16.75	13.67	24.51	26.7	6.4	33.1



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 0006608-038

CL File Number: 1800210
Date: 2/14/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES31-45.0-45.5	Silt	0.0108	0.00	0.00	0.00	16.42	51.0	32.6	83.6
PT-ES31-55.0-55.5	Silt	0.0284	0.00	0.00	0.00	29.72	58.7	11.6	70.3
PT-ES31-68.0-68.5	Silt	0.0067	0.00	0.00	0.00	2.98	65.0	32.1	97.0
PT-ES31-82.0-82.5	Silt	0.0078	0.00	0.00	0.00	3.62	64.7	31.7	96.4
PT-ES31-95.0-95.5	Silt	0.0052	0.00	0.00	0.00	0.37	61.2	38.4	99.6
PT-ES31-115.0-115.5	Silt	0.0063	0.00	0.00	0.00	15.93	44.4	39.7	84.1
PT-ESB3-14.5-15.0	Medium Grain Sand	1.8069	32.48	22.06	21.73	9.03	11.4	3.3	14.7
PT-ESB3-29.5-29.8	Medium Grain Sand	1.1126	25.84	19.64	22.95	12.99	14.0	4.5	18.6
PT-ESB3-44.5-44.8	Medium Grain Sand	0.8559	14.48	20.20	36.98	12.26	12.2	3.8	16.1
PT-ESB3-54.5-55.0	Silt	0.0111	0.00	0.00	0.00	11.68	56.8	31.5	88.3
PT-ESB3-64.5-65.0	Silt	0.0131	0.00	0.00	0.00	14.98	59.0	26.0	85.0
PT-ESB3-77.0-77.5	Silt	0.0193	0.00	0.00	0.00	9.73	78.9	11.3	90.3
PT-ESB3-94.5-95.0	Silt	0.0201	0.00	0.00	0.01	24.26	60.8	14.9	75.7
PT-ESB3-114.5-115.0	Silt	0.0055	0.00	0.00	0.00	8.41	51.6	40.0	91.6
PT-ESB3-132.0-132.5	Silt	0.0113	0.00	0.00	0.00	3.14	75.8	21.1	96.9
PT-ESB3-147.5-148.0	Silt	0.0047	0.00	0.00	0.00	3.03	54.1	42.8	97.0



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May 31, 2018

Jessica Donovan
Ramboll US Corporation
2200 Powell Street, Suite 700
Emeryville, CA 94608

Subject: Petrophysical Properties
File No.: 1800558

Dear Ms. Donovan:

Enclosed are final data for the Group 2 set of samples and TOC for Group 3 set of samples submitted to our laboratory from project LePetXXVII: Nert RI Phase 3 in Henderson, Nevada.

Grain size analysis, Atterberg Limits, Moisture Content, Density, Porosity, Hydraulic Conductivity, and TOC were performed on requested samples where there was suitable recovery. Appropriate ASTM, EPA or API methodologies were used for this project and SOP's are available on request. The samples for this project is currently in storage and will be retained for thirty days past completion of testing at no charge. At the end of thirty days, the samples will be disposed. You may contact me regarding continued storage, disposal, or return of the samples.

Thank you for this opportunity to be of service to Ramboll US Corporation. Please do not hesitate to contact us at (661-325-5657) if you have any questions regarding these results or if we can be of any additional service.

Sincerely,
Core Laboratories

Crystal Grinstead
Core Analyst

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, expressed or implied, as to the productivity, proper operations or profitability, however, of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 000 6943-038 (Task M22D)

CL File Number: 1800558

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Table 1 Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS: Sample ¹ Orientation	API RP40	API RP40	API RP 40		
				ASTM D2216	D5550	ASTM D425M		
				Mositure Content % dry weight	Density		Total	Effective ³
				Dry Bulk g/cm ³	Grain gm/cc	%	%Vb ⁴	
PT-ES12-21.0-21.5	21.2	01/20/18	V	41.27	1.27	2.58	50.70	3.50
PT-ES12-28.0-28.5	28.2	01/20/18	V	34.92	1.37	2.65	48.30	1.49
PT-ES12-35.0-35.5	35.1	01/20/18	V	38.54	1.32	2.64	49.99	1.47
PT-ES12-42.0-42.5	42.2	01/20/18	V	39.97	1.28	2.66	51.77	3.30
PT-ES12-55.0-55.5	55.4	01/20/18	V	41.46	1.29	2.67	51.59	2.22
PT-ES12-75.0-75.5	75.2	01/20/18	V	59.75	1.01	2.56	60.62	11.04
PT-ES12-85.0-85.5	85.3	01/20/18	V	38.86	1.32	2.76	52.04	5.44
PT-ES12-95.0-95.5	95.2	01/21/18	V	35.13	1.41	2.61	46.01	11.94
PT-ES12-105.4-106.0	105.6	01/21/18	V	39.58	1.28	2.65	51.65	3.08
PT-TBG1-66.0-66.5	66.4	02/06/18	V	41.00	1.22	2.65	53.84	8.11
PT-TBG1-69.5-70.0	69.7	02/06/18	V	43.95	1.19	2.67	55.33	4.65
PT-TBG1-77.5-78.0	77.7	02/06/18	V	53.27	1.04	2.63	60.49	13.92
PT-TBG1-87.5-88.0	87.8	02/06/18	V	42.91	1.22	2.66	54.27	4.08
PT-TBG1-117.5-118.0	117.7	02/06/18	V	40.37	1.25	2.67	52.94	5.21
PT-TBG1-127.5-128.0	127.8	02/06/18	V	48.35	1.12	2.63	57.27	6.01
PT-TBG1-139.5-140.0	139.7	02/06/18	V	42.36	1.21	2.67	54.69	4.83
PT-TBG1-142.0-142.5	142.2	02/06/18	V	43.72	1.19	2.66	55.16	3.79
PT-TBG1-144.5-145.0	144.7	02/06/18	V	40.06	1.23	2.64	53.51	2.55
PT-TBG1-149.0-149.5	149.2	02/06/18	V	37.19	1.30	2.66	51.18	3.29
PT-TBG1-159.5-160.0	159.7	02/06/18	V	39.49	1.27	2.68	52.72	2.71
PT-TBG1-161.5-162.0	161.7	02/06/18	V	28.86	1.45	2.69	45.93	1.33
PT-TBG2-78.0-78.5	78.2	02/07/18	V	44.26	1.20	2.63	54.42	7.00



Table 1 Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS: Sample ¹ Orientation	API RP40	API RP40	API RP 40		
				ASTM D2216	D5550	ASTM D425M		
				Mositure Content % dry weight	Density		Total	Effective ³
				Dry Bulk g/cm ³	Grain gm/cc	%	%Vb ⁴	
PT-TBG2-86.0-86.5	86.3	02/07/18	V	49.88	1.12	2.65	57.89	6.12
PT-TBG2-91.5-92.0	91.8	02/07/18	V	35.31	1.35	2.69	49.73	5.17
PT-TBG2-111.0-111.5	111.2	02/07/18	V	32.28	1.33	2.68	50.54	5.73
PT-TBG2-120.0-120.5	120.2	02/07/18	V	41.64	1.21	2.65	54.11	4.03
PT-TBG2-129.0-129.5	129.2	02/07/18	V	42.73	1.22	2.67	54.33	4.51
PT-TBG2-139.0-139.5	139.2	02/07/18	V	32.78	1.39	2.67	47.93	3.54
PT-TBG2-145.5-146.0	145.7	02/07/18	V	25.82	1.54	2.68	42.62	2.93
PT-TBG2-151.5-152.0	151.7	02/07/18	V	50.21	1.11	2.67	58.35	3.97
PT-TBG5-70.0-70.5	70.2	02/05/18	V	35.53	1.34	2.72	50.58	5.82
PT-TBG5-80.0-80.5	80.2	02/05/18	V	56.55	1.03	2.64	60.97	12.89
PT-TBG5-90.5-91.0	90.7	02/05/18	V	44.01	1.18	2.62	55.04	14.59
PT-TBG5-102.5-103.0	102.7	02/05/18	V	41.55	1.23	2.69	54.18	6.48
PT-TBG5-111.2-111.7	111.4	02/05/18	V	30.05	1.45	2.68	45.80	9.20
PT-TBG5-120.0-120.5	120.2	02/05/18	V	57.58	1.00	2.61	61.70	17.24
PT-TBG5-130.0-130.5	130.2	02/05/18	V	38.82	1.26	2.65	52.48	12.63
PT-TBG5-139.5-140.0	139.7	02/05/18	V	68.06	0.92	2.62	64.80	10.30
PT-TBG5-143.6-144.1	143.8	02/05/18	V	50.35	1.10	2.64	58.25	8.79
PT-TBG5-147.0-147.5	147.2	02/05/18	V	45.65	1.18	2.66	55.78	4.43
PT-TBG5-159.5-160.0	159.7	02/05/18	V	46.21	1.17	2.66	56.06	10.65

(1) Sample Orientation: H = horizontal; V = vertical.

(2) Total Porosity = no pore fluids in place; all interconnected pore channels.

(3) Effective Porosity = drainage porosity.

(4) Vb = Bulk Volume, cc.



Table 2 HYDRAULIC CONDUCTIVITY

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID.	Depth, ft.	Sample Orientation ¹	METHODS: API RP 40; ASTM D5084; EPA 9100	
			100 psi Net Confining Stress	
			Effective ^{2,3} Permeability to Water, millidarcy	Saturated Hydraulic Conductivity, ^{2,3} cm/s
PT-ES12-28.0-28.5	28.20	V	<0.001	<10E-10
PT-ES12-75.0-75.5	75.20	V	0.040	4.22E-08
PT-ES12-95.0-95.5	95.20	V	11.527	1.21E-05
PT-TBG1-66.0-66.5	66.40	V	0.240	2.50E-07
PT-TBG1-77.5-78.0	77.70	V	0.879	9.27E-07
PT-TBG1-117.5-118.0	117.70	V	0.046	4.74E-08
PT-TBG1-139.5-140.0	139.70	V	0.094	9.85E-08
PT-TBG1-144.5-145.0	144.70	V	0.008	8.76E-09
PT-TBG1-159.5-160.0	159.70	V	<0.001	<10E-10
PT-TBG5-70.0-70.5	70.20	V	0.104	1.09E-07
PT-TBG5-90.5-91.0	90.70	V	1.827	1.92E-06
PT-TBG5-111.2-111.7	111.40	V	0.174	1.85E-07
PT-TBG5-130.0-130.5	130.20	V	1.538	1.66E-06
PT-TBG5-143.6-144.1	143.80	V	0.043	4.55E-08
PT-TBG5-159.5-160.0	159.70	V	0.288	3.02E-07

(1) Sample Orientation: H = horizontal; V = vertical

(2) Native State or Effective = With as-received pore fluids in place.

(3) Permeability to water and hydraulic conductivity measured at saturated conditions.



Table 3 Total Organic Carbon & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800558

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-ES12-11.0-11.5	11.00	01/20/18	V		2800	2.80E-03
PT-ES12-15.0-15.5	15.00	01/20/18	V		5300	5.30E-03
PT-ES12-21.0-21.5	21.00	01/20/18	V		4000	4.00E-03
PT-ES12-28.0-28.5	28.00	01/20/18	V		4900	4.90E-03
PT-ES12-35.0-35.5	35.00	01/20/18	V		5100	5.10E-03
PT-ES12-42.0-42.5	42.00	01/20/18	V		5500	5.50E-03
PT-ES12-55.0-55.5	55.00	01/20/18	V		5400	5.40E-03
PT-ES12-75.0-75.5	75.00	01/20/18	V		71200	7.12E-02
PT-ES12-85.0-85.5	85.00	01/20/18	V		24300	2.43E-02
PT-ES12-95.0-95.5	95.00	01/21/18	V		18100	1.81E-02
PT-ES12-105.4-106.0	105.40	01/21/18	V		24800	2.48E-02
PT-TBG1-63.5-63.8	63.50	02/06/18	V		3700	3.70E-03
PT-TBG1-66.0-66.5	66.00	02/06/18	V		4000	4.00E-03
PT-TBG1-69.5-70.0	69.50	02/06/18	V		4000	4.00E-03
PT-TBG1-77.5-78.0	77.50	02/06/18	V		4400	4.40E-03
PT-TBG1-87.5-88.0	87.50	02/06/18	V		2900	2.90E-03
PT-TBG1-117.5-118.0	117.50	02/06/18	V		3400	3.40E-03
PT-TBG1-127.5-128.0	127.50	02/06/18	V		5100	5.10E-03
PT-TBG1-139.5-140.0	139.50	02/06/18	V		5800	5.80E-03
PT-TBG1-142.0-142.5	142.00	02/06/18	V		5400	5.40E-03
PT-TBG1-144.5-145.0	144.50	02/06/18	V		6200	6.20E-03
PT-TBG1-146.0-146.3	146.00	02/06/18	V		6000	6.00E-03
PT-TBG1-149.0-149.5	149.00	02/06/18	V		5400	5.40E-03

(1) Sample Orientation: H = horizontal; V = vertical.



Table 3 Total Organic Carbon & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800558

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-TBG1-159.5-160.0	159.50	02/06/18	V		5200	5.20E-03
PT-TBG1-161.5-162.0	161.50	02/06/18	V		5100	5.10E-03
PT-TBG2-10.5-10.8	10.50	02/07/18	V		4600	4.60E-03
PT-TBG2-19.5-19.8	19.50	02/07/18	V		5000	5.00E-03
PT-TBG2-30.5-30.8	30.50	02/07/18	V		3100	3.10E-03
PT-TBG2-41.0-41.3	41.00	02/07/18	V		5300	5.30E-03
PT-TBG2-50.0-50.3	50.00	02/07/18	V		5200	5.20E-03
PT-TBG2-59.0-59.3	59.00	02/07/18	V		6400	6.40E-03
PT-TBG2-64.0-64.3	64.00	02/07/18	V		6300	6.30E-03
PT-TBG2-67.0-67.3	67.00	02/07/18	V		4500	4.50E-03
PT-TBG2-78.0-78.5	78.00	02/07/18	V		4800	4.80E-03
PT-TBG2-86.0-86.5	86.00	02/07/18	V		5400	5.40E-03
PT-TBG2-91.5-92.0	91.50	02/07/18	V		5500	5.50E-03
PT-TBG2-111.0-111.5	111.00	02/07/18	V		4300	4.30E-03
PT-TBG2-120.0-120.5	120.00	02/07/18	V		4000	4.00E-03
PT-TBG2-129.0-129.5	129.00	02/07/18	V		4100	4.10E-03
PT-TBG2-139.0-139.5	139.00	02/07/18	V		3800	3.80E-03
PT-TBG2-145.5-146.0	145.50	02/07/18	V		3300	3.30E-03
PT-TBG2-151.5-152.0	151.50	02/07/18	V		2900	2.90E-03
PT-TBG5-11.0-11.3	11.00	02/05/18	V		4000	4.00E-03
PT-TBG5-20.0-20.3	20.00	02/05/18	V		3900	3.90E-03
PT-TBG5-30.0-30.3	30.00	02/05/18	V		3400	3.40E-03
PT-TBG5-40.0-40.3	40.00	02/05/18	V		4200	4.20E-03

(1) Sample Orientation: H = horizontal; V = vertical.



Table 3 Total Organic Carbon & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800558

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-TBG5-50.0-50.3	50.00	02/05/18	V		3800	3.80E-03
PT-TBG5-59.0-59.3	59.00	02/05/18	V		3900	3.90E-03
PT-TBG5-62.5-62.8	62.50	02/05/18	V		4600	4.60E-03
PT-TBG5-70.0-70.5	70.00	02/05/18	V		4000	4.00E-03
PT-TBG5-80.0-80.5	80.00	02/05/18	V		4200	4.20E-03
PT-TBG5-90.5-91.0	90.50	02/05/18	V		3600	3.60E-03
PT-TBG5-102.5-103.0	102.50	02/05/18	V		3700	3.70E-03
PT-TBG5-111.2-111.7	111.20	02/05/18	V		2500	2.50E-03
PT-TBG5-120.0-120.5	120.00	02/05/18	V		4200	4.20E-03
PT-TBG5-130.0-130.5	130.00	02/05/18	V		3300	3.30E-03
PT-TBG5-139.5-140.0	139.50	02/05/18	V		5600	5.60E-03
PT-TBG5-143.6-144.1	143.60	02/05/18	V		3800	3.80E-03
PT-TBG5-147.0-147.5	147.00	02/05/18	V		3400	3.40E-03
PT-TBG5-159.5-160.0	159.50	02/05/18	V		4000	4.00E-03

(1) Sample Orientation: H = horizontal; V = vertical.



Table 4 Total Organic Carbon & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-ES8B-15.0-15.3	15.00	02/15/18	V		3600	3.60E-03
PT-ES8B-25.0-25.3	25.00	02/15/18	V		5500	5.50E-03
PT-ES8B-35.0-35.3	35.00	02/15/18	V		3200	3.20E-03
PT-ES8B-40.5-40.8	40.50	02/15/18	V		3900	3.90E-03
PT-ES8B-44.0-44.5	44.00	02/15/18	V		4600	4.60E-03
PT-ES8B-55.0-55.5	55.00	02/15/18	V		6000	6.00E-03
PT-ES8B-61.0-61.5	61.00	02/15/18	V		4000	4.00E-03
PT-ES8B-65.0-65.5	65.00	02/15/18	V		5100	5.10E-03
PT-ES8B-75.0-75.5	75.00	02/15/18	V		5400	5.40E-03
PT-ES8B-85.0-85.5	85.00	02/15/18	V		4300	4.30E-03
PT-ES8B-95.0-95.5	95.00	02/15/18	V		4900	4.90E-03
PT-ES8B-105.0-105.5	105.00	02/15/18	V		6400	6.40E-03
PT-ES8B-115.0-115.5	115.00	02/15/18	V		6000	6.00E-03
PT-ES8B-118.5-119.0	118.50	02/15/18	V		7500	7.50E-03
PT-ES9-15.0-15.3	15.00	02/20/18	V		4600	4.60E-03
PT-ES9-25.0-25.3	25.00	02/20/18	V		3200	3.20E-03
PT-ES9-35.0-35.3	35.00	02/20/18	V		5100	5.10E-03
PT-ES9-45.0-45.3	45.00	02/20/18	V		5200	5.20E-03
PT-ES9-55.0-55.5	55.00	02/20/18	V		5500	5.50E-03
PT-ES9-65.0-65.5	65.00	02/20/18	V		4400	4.40E-03
PT-ES9-75.0-75.5	75.00	02/20/18	V		5400	5.40E-03
PT-ES9-85.0-85.5	85.00	02/20/18	V		6300	6.30E-03
PT-ES9-95.0-95.5	95.00	02/20/18	V		7100	7.10E-03

(1) Sample Orientation: H = horizontal; V = vertical.



Table 4 Total Organic Carbon & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-ES9-105.0-105.5	105.00	02/20/18	V		5100	5.10E-03
PT-ES9-115.0-115.5	115.00	02/20/18	V		5700	5.70E-03
PT-ES10-14.0-14.3	14.00	02/16/18	V		3200	3.20E-03
PT-ES10-25.0-25.5	25.00	02/16/18	V		4800	4.80E-03
PT-ES10-35.0-35.5	35.00	02/16/18	V		4500	4.50E-03
PT-ES10-45.0-45.5	45.00	02/16/18	V		4500	4.50E-03
PT-ES10-55.0-55.5	55.00	02/16/18	V		5500	5.50E-03
PT-ES10-65.0-65.5	65.00	02/16/18	V		59200	5.92E-02
PT-ES10-75.0-75.5	75.00	02/16/18	V		12700	1.27E-02
PT-ES10-85.0-85.5	85.00	02/16/18	V		14000	1.40E-02
PT-ES10-95.0-95.5	95.00	02/16/18	V		24200	2.42E-02
PT-ES10-105.0-105.5	105.00	02/16/18	V		6400	6.40E-03
PT-ES10-115.0-115.5	115.00	02/16/18	V		4600	4.60E-03
PT-ESB14-13.0-13.3	13.00	02/18/18	V		3800	3.80E-03
PT-ESB14-15.5-16.0	15.50	02/18/18	V		3700	3.70E-03
PT-ESB14-21.0-21.5	21.00	02/18/18	V		4000	4.00E-03
PT-ESB14-25.0-25.5	25.00	02/18/18	V		3800	3.80E-03
PT-ESB14-35.0-35.5	35.00	02/18/18	V		2100	2.10E-03
PT-ESB14-45.0-45.5	45.00	02/18/18	V		4400	4.40E-03
PT-ESB14-55.0-55.5	55.00	02/18/18	V		4400	4.40E-03
PT-ESB14-65.0-65.5	65.00	02/18/18	V		11100	1.11E-02
PT-ESB14-75.0-75.5	75.00	02/18/18	V		24500	2.45E-02
PT-ESB14-85.0-85.5	85.00	02/18/18	V		17000	1.70E-02

(1) Sample Orientation: H = horizontal; V = vertical.



Table 4 Total Organic Carbon & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006608-038 (Task M22D)

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-ESB14-105.0-105.5	105.00	02/18/18	V		10600	1.06E-02
PT-ESB14-125.0-125.5	125.00	02/18/18	V		10000	1.00E-02
PT-ESB14-145.0-145.5	145.00	02/18/18	V		4700	4.70E-03

(1) Sample Orientation: H = horizontal; V = vertical.



Table 5 ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI			
PT-ES12-11.0-11.5	11.0-11.5	Not Required			GP-GM	Poorly graded gravel with silt and sand	Sand
PT-ES12-15.0-15.5	15.0-15.5	33	23	10	SM	Silt sand with gravel	Loamy Sand
PT-ES12-21.0-21.5	21.0-25.5	85	64	21	MH	Elastic silt	Silt Loam
PT-ES12-28.0-28.5	28.0-28.5	58	43	15	MH	Elastic silt	Silty Clay Loam
PT-ES12-35.0-35.5	35.0-35.5	66	44	22	MH	Elastic silt	Silty Clay Loam
PT-ES12-42.0-42.5	42.0-42.5	80	49	31	MH	Elastic silt	Silty Clay Loam
PT-ES12-55.0-55.5	55.0-55.5	68	45	23	MH	Elastic silt	Silty Clay Loam
PT-ES12-75.0-75.5	75.0-75.5	76	55	21	MH	Elastic silt	Silty Clay
PT-ES12-85.0-85.5	85.0-85.5	67	45	22	MH	Elastic silt	Silty Clay
PT-ES12-95.0-95.5	95.0-95.5	80	66	14	MH	Elastic silt	Silty Clay
PT-ES12-105.4-106.0	105.4-106.0	79	45	34	MH	Elastic silt	Silty Clay Loam
PT-TBG1-63.5-63.8	63.5-63.8	29	22	7	SC	Clayey sand with gravel	Loamy Sand
PT-TBG1-66.0-66.5	66.0-66.5	45	43	2	ML	Sandy silt	Loam
PT-TBG1-69.5-70.0	69.5-70.0	53	50	3	MH	Elastic silt with sand	Silt Loam
PT-TBG1-77.5-78.0	77.5-78.0	56	53	3	MH	Elastic silt with sand	Silt Loam
PT-TBG1-87.5-88.0	87.5-88.0	53	43	10	MH	Elastic silt with sand	Silt Loam
PT-TBG1-117.5-118.0	117.5-118.0	51	43	8	MH	Elastic silt	Silt Loam
PT-TBG1-127.5-128.0	127.5-128.0	57	49	8	MH	Elastic silt with sand	Silt Loam
PT-TBG1-139.5-140.0	139.5-140.0	54	44	10	MH	Elastic silt	Silt Loam
PT-TBG1-142.0-142.5	142.0-142.5	58	46	12	MH	Elastic silt	Silt Loam
PT-TBG1-144.5-145.0	144.5-145.0	61	48	13	MH	Elastic silt	Silt Loam
PT-TBG1-146.0-146.3	146.0-146.3	58	52	6	MH	Elastic silt	Silt Loam
PT-TBG1-149.0-149.5	149.0-149.5	48	38	10	MH	Elastic silt	Silt Loam
PT-TBG1-159.5-160.0	159.5-160.0	66	50	16	MH	Elastic silt	Silt Loam



**Table 5
ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA**

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI			
PT-TBG1-161.5-162.0	161.5-162.0	46	36	10	MH	Elastic silt	Silt Loam
PT-TBG2-10.5-10.8	10.5-10.8	33	26	7	GM	Silty gravel with sand	Sand
PT-TBG2-19.5-19.8	19.5-19.8		Not Required		GP-GM	Poorly graded gravel with silt and sand	Sand
PT-TBG2-30.5-30.8	30.5-30.8	30	26	4	SM	Silty sand with gravel	Sand
PT-TBG2-41.0-41.3	41.0-41.3	27	20	7	GC-GM	Silty, clayey gravel with sand	Loamy Sand
PT-TBG2-50.0-50.3	50.0-50.3		Not Required		GP-GM	Poorly graded gravel with silt and sand	Sand
PT-TBG2-59.0-59.3	59.0-59.3		Not Required		SP-SC	Poorly graded sand with clay and gravel	Sand
PT-TBG2-64.0-64.3	64.0-64.3		Non Plastic		NP	Poorly graded gravel with sand	Sand
PT-TBG2-67.0-67.3	67.0-67.3	47	42	5	ML	Silt	Silt Loam
PT-TBG2-78.0-78.5	78.0-78.5	53	42	11	MH	Elastic silt with sand	Silt Loam
PT-TBG2-86.0-86.5	86.0-86.5	53	46	7	MH	Elastic silt with sand	Silt Loam
PT-TBG2-91.5-92.0	91.5-92.0	45	37	8	ML	Silt	Silt Loam
PT-TBG2-111.0-111.5	111.0-111.5	40	38	2	ML	Silt	Silt Loam
PT-TBG2-120.0-120.5	120.0-120.5	56	46	10	MH	Elastic Silt	Silt Loam
PT-TBG2-129.0-129.5	129.0-129.5	61	46	15	MH	Elastic Silt	Silt Loam
PT-TBG2-139.0-139.5	139.0-139.5	54	36	18	MH	Elastic Silt	Silt Loam
PT-TBG2-145.5-146.0	145.5-146.0	47	35	12	ML	Silt	Silt Loam
PT-TBG2-151.5-152.0	151.5-152.0	73	55	18	MH	Elastic Silt	Silt Loam
PT-TBG5-11.0-11.3	11.0-11.3		Not Required		SP-SM	Poorly graded sand with silt and gravel	Sand
PT-TBG5-20.0-20.3	20.0-20.3		Not Required		GP-GM	Poorly graded gravel with silt and sand	Sand
PT-TBG5-30.0-30.3	30.0-30.3		Not Required		SP-SM	Poorly graded sand with silt and gravel	Sand
PT-TBG5-40.0-40.3	40.0-40.3	30	24	6	SM	Silty sand with gravel	Sandy Loam
PT-TBG5-50.0-50.3	50.0-50.3	25	20	5	SC-SM	Silty, clayey sand with gravel	Loamy Sand
PT-TBG5-59.0-59.3	59.0-59.3		Non Plastic		NP	Poorly graded sand with silt and gravel	Sand



Table 5 ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1800558EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 169 0006943-038 (Task M22D)

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI	USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
PT-TBG5-62.5-62.8	62.5-62.8	Not Required			SP-SM	Poorly graded sand with silt and gravel	Sand
PT-TBG5-70.0-70.5	70.0-70.5	47	38	9	ML	Silt	Silty Clay
PT-TBG5-80.0-80.5	80.0-80.5	61	56	5	MH	Elastic silt	Silty Clay Loam
PT-TBG5-90.5-91.0	90.5-91.0	46	41	5	ML	Silt	Silt Loam
PT-TBG5-102.5-103.0	102.5-103	51	45	6	MH	Elastic silt	Silty Clay Loam
PT-TBG5-111.2-111.7	111.2-111.7	36	33	3	ML	Silt with sand	Silt Loam
PT-TBG5-120.0-120.5	120.0-120.5	55	47	8	MH	Elastic silt	Silt Loam
PT-TBG5-130.0-130.5	130.0-130.5	44	36	8	ML	Silt	Silt Loam
PT-TBG5-139.5-140.0	139.5-140	68	59	9	MH	Elastic silt	Silt Loam
PT-TBG5-143.6-144.1	143.6-144.1	60	50	10	MH	Elastic silt	Silty Clay Loam
PT-TBG5-147.0-147.5	147.0-147.5	64	50	14	MH	Elastic silt	Silty Clay Loam
PT-TBG5-159.5-160.0	159.5-160	54	46	8	MH	Elastic silt	Silty Clay Loam

USCS: Unified Soil Classification System

USDA: US Department of Agriculture

SCS: Soil Conservation Service

* Grain size analysis indicates swelling clays.

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.

(2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.



Table 6 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ES12-11.0-11.5	vcgr	2.2129	54.38	18.40	12.38	6.07	3.12	1.87	2.76	1.02	3.8
PT-ES12-15.0-15.5	cgr	1.4537	39.04	23.03	11.83	5.01	3.66	3.50	10.86	3.07	13.9
PT-ES12-21.0-21.5	silt	0.0103	0.00	0.00	0.00	0.00	0.00	7.29	67.32	25.39	92.7
PT-ES12-28.0-28.5	silt	0.0084	0.00	0.00	0.00	0.00	0.00	1.65	67.38	30.98	98.4
PT-ES12-35.0-35.5	silt	0.0087	0.00	0.00	0.00	0.00	0.00	2.24	67.59	30.17	97.8
PT-ES12-42.0-42.5	silt	0.0083	0.00	0.00	0.00	0.00	0.00	2.79	66.53	30.68	97.2
PT-ES12-55.0-55.5	silt	0.0072	0.00	0.00	0.00	0.00	0.00	0.79	66.92	32.29	99.2
PT-ES12-75.0-75.5	silt	0.0039	0.00	0.00	0.00	0.00	0.00	0.00	49.78	50.22	100.0
PT-ES12-85.0-85.5	silt	0.0032	0.00	0.00	0.00	0.00	0.00	0.00	42.60	57.40	100.0
PT-ES12-95.0-95.5	silt	0.0042	0.00	0.00	0.00	0.00	0.00	0.00	53.48	46.52	100.00
PT-ES12-105.4-106.0	silt	0.0061	0.00	0.00	0.00	0.00	0.00	0.02	62.82	37.16	100.0



Table 7 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-TBG1-63.5-63.8	mgr	0.7154	31.70	10.97	14.11	9.85	6.17	5.21	15.17	6.81	22.0
PT-TBG1-66.0-66.5	silt	0.0520	0.00	0.00	0.00	3.75	18.40	23.14	45.70	9.01	54.7
PT-TBG1-69.5-70.0	silt	0.0228	0.00	0.00	0.00	0.02	4.21	17.07	64.32	14.38	78.7
PT-TBG1-77.5-78.0	silt	0.0258	0.00	0.00	0.00	0.00	2.56	18.42	65.51	13.52	79.0
PT-TBG1-87.5-89.0	silt	0.0244	0.00	0.00	3.53	5.09	6.08	11.98	61.04	12.27	73.3
PT-TBG1-117.5-118.0	silt	0.0178	0.00	0.00	0.00	0.00	0.57	10.38	71.88	17.17	89.1
PT-TBG1-127.5-128.0	silt	0.0258	0.00	0.00	0.00	0.00	1.60	19.89	65.32	13.19	78.5
PT-TBG1-139.5-140.0	silt	0.0149	0.00	0.00	0.00	0.00	0.85	9.59	70.09	19.47	89.6
PT-TBG1-142.0-142.5	silt	0.0152	0.00	0.00	0.00	0.00	0.36	9.50	70.50	19.65	90.1
PT-TBG1-144.5-145.0	silt	0.0170	0.00	0.00	0.00	0.00	0.17	10.34	73.01	16.48	89.50
PT-TBG1-146.0-146.5	silt	0.0213	0.00	0.00	0.00	0.00	0.98	14.93	68.85	15.25	84.1
PT-TBG1-149.0-149.5	silt	0.0188	0.00	0.00	0.00	0.00	2.25	14.05	67.03	16.67	83.7
PT-TBG1-159.5-160.0	silt	0.0141	0.00	0.00	0.00	0.00	0.02	5.40	76.20	18.39	94.6
PT-TBG1-161.5-162.0	silt	0.0135	0.00	0.00	0.00	0.00	0.45	9.78	68.53	21.24	89.8



Table 8 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size				Clay			
				VCoarse	Coarse	Medium	Fine		VFine	Silt	
PT-TBG2-10.5-10.8	cgr	1.2657	44.31	10.22	14.69	8.99	4.94	4.30	9.94	2.62	12.6
PT-TBG2-19.5-19.8	cgr	1.1806	27.73	28.52	17.26	8.02	4.59	3.49	8.08	2.30	10.4
PT-TBG2-30.5-30.8	cgr	1.2571	40.44	15.31	15.55	7.00	4.12	4.37	10.68	2.54	13.2
PT-TBG2-41.0-41.3	cgr	1.5047	45.02	13.61	12.31	4.95	2.96	3.10	14.02	4.04	18.1
PT-TBG2-50.0-50.3	vcgr	2.2777	55.22	11.58	12.28	6.07	2.71	2.32	7.33	2.49	9.8
PT-TBG2-59.0-59.3	vcgr	1.3441	37.88	22.23	18.04	7.96	3.55	2.46	5.72	2.16	7.9
PT-TBG2-64.0-64.3	gran	2.4342	60.55	18.72	10.86	3.29	1.59	1.41	2.72	0.85	3.6
PT-TBG2-67.0-67.3	silt	0.0237	0.00	0.00	0.00	0.00	2.35	16.22	68.66	12.76	81.4
PT-TBG2-78.0-78.5	silt	0.0263	0.00	0.00	0.00	0.53	5.54	18.29	61.43	14.21	75.6
PT-TBG2-86.0-86.5	silt	0.0253	0.00	0.00	0.00	0.62	4.53	17.25	64.27	13.33	77.61
PT-TBG2-91.5-92.0	silt	0.0192	0.00	0.00	0.00	0.52	2.26	10.84	71.82	14.55	86.4
PT-TBG2-111.0-111.5	silt	0.0183	0.00	0.00	0.00	0.00	1.16	11.21	70.15	17.48	87.6
PT-TBG2-120.0-120.5	silt	0.0200	0.00	0.00	0.00	0.00	1.58	14.27	69.13	15.02	84.1
PT-TBG2-129.0-129.5	silt	0.0153	0.00	0.00	0.00	0.00	1.54	9.02	75.03	14.41	89.4
PT-TBG2-139.0-139.5	silt	0.0098	0.00	0.00	0.00	0.00	0.99	5.43	72.80	20.79	93.6



Table 8 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-TBG2-145.5-146.0	silt	0.0139	0.00	0.00	0.00	0.36	3.76	11.75	67.20	16.93	84.1
PT-TBG2-151.5-152.0	silt	0.0122	0.00	0.00	0.00	0.00	0.22	5.35	74.32	20.11	94.4



Table 9 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size				Clay			
				VCoarse	Coarse	Medium	Fine		VFine	Silt	
PT-TBG5-11.0-11.3	vcgr	1.3214	34.37	25.37	16.62	8.80	4.43	2.69	5.84	1.88	7.7
PT-TBG5-20.0-20.3	vcgr	1.9558	49.23	21.01	11.46	5.80	3.15	2.48	5.62	1.27	6.9
PT-TBG5-30.0-30.3	vcgr	1.6728	43.99	23.40	14.32	6.43	2.77	1.86	5.42	1.83	7.2
PT-TBG5-40.0-40.3	mgr	0.6395	19.21	20.36	14.93	8.89	5.66	5.29	20.70	4.96	25.7
PT-TBG5-50.0-50.3	mgr	0.9510	24.00	24.50	14.67	7.54	5.13	4.61	15.14	4.42	19.6
PT-TBG5-59.0-59.3	cgr	1.1753	32.71	22.23	15.53	9.73	5.68	4.45	7.23	2.44	9.7
PT-TBG5-62.5-62.8	cgr	1.3713	36.29	23.52	14.14	7.84	4.47	3.58	7.74	2.43	10.2
PT-TBG5-70.0-70.5	silt	0.0049	0.00	0.00	0.00	0.00	0.00	0.00	57.41	42.59	100.0
PT-TBG5-80.0-80.5	silt	0.0090	0.00	0.00	0.00	0.00	0.00	1.12	69.52	29.37	98.9
PT-TBG5-90.5-91.0	silt	0.0123	0.00	0.00	0.00	0.00	0.00	8.29	67.03	24.68	91.71
PT-TBG5-102.5-103.0	silt	0.0085	0.00	0.00	0.00	0.00	0.00	0.21	70.71	29.08	99.8
PT-TBG5-111.2-111.7	silt	0.0184	0.00	0.00	0.00	0.00	5.02	15.88	58.86	20.24	79.1
PT-TBG5-120.0-120.5	silt	0.0132	0.00	0.00	0.00	0.00	0.00	7.87	68.51	23.62	92.1
PT-TBG5-130.0-130.5	silt	0.0126	0.00	0.00	0.00	0.00	0.18	8.48	67.22	24.12	91.3
PT-TBG5-139.5-140.0	silt	0.0105	0.00	0.00	0.00	0.00	0.00	3.66	70.54	25.80	96.3



Table 9 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay	
			Gravel	Sand Size					Clay			
				VCoarse	Coarse	Medium	Fine	VFine		Silt		
PT-TBG5-143.6-144.1	silt	0.0062	0.00	0.00	0.00	0.00	0.00	0.00	0.06	62.55	37.38	99.9
PT-TBG5-147.0-147.5	silt	0.0093	0.00	0.00	0.00	0.00	0.00	0.00	2.61	68.81	28.58	97.4
PT-TBG5-159.5-160.0	silt	0.0079	0.00	0.00	0.00	0.00	0.00	0.00	4.52	63.95	31.53	95.5



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 000 6943-038 (Task M22D)

CL File Number: 1800558

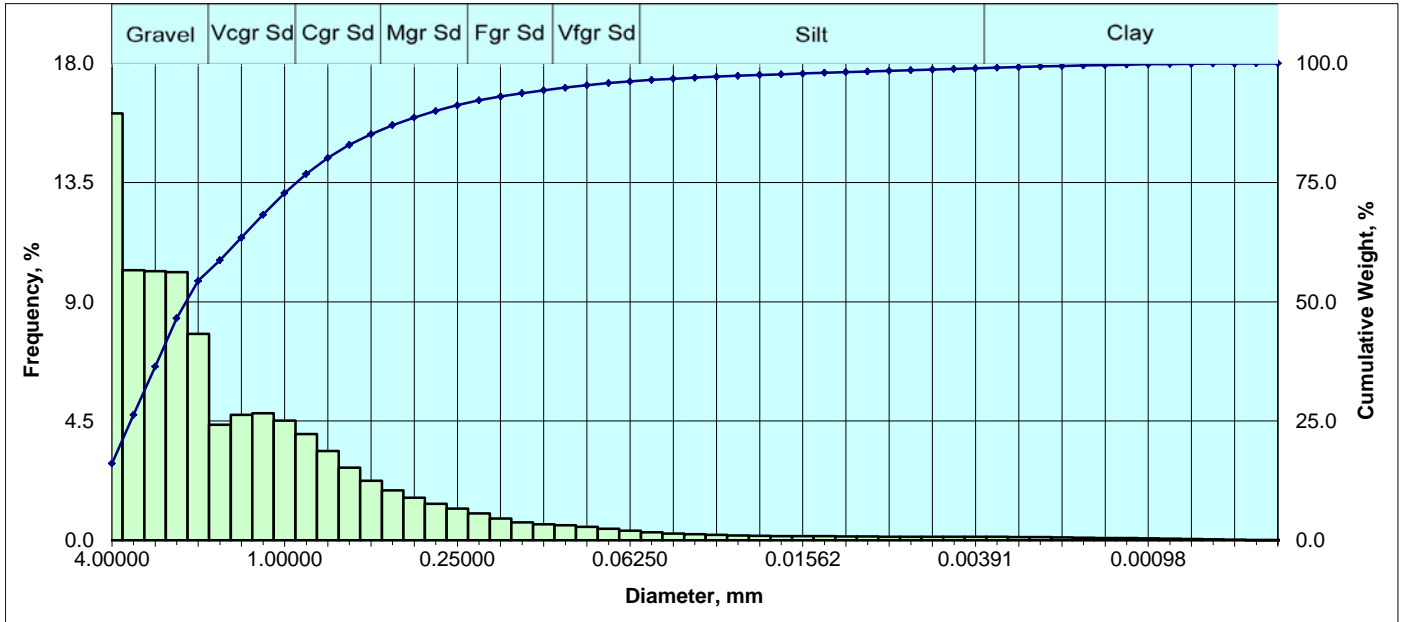
APPENDIX 1

Particle Distribution Plots

Boring ES12



Sieve and Laser Particle Size Analysis

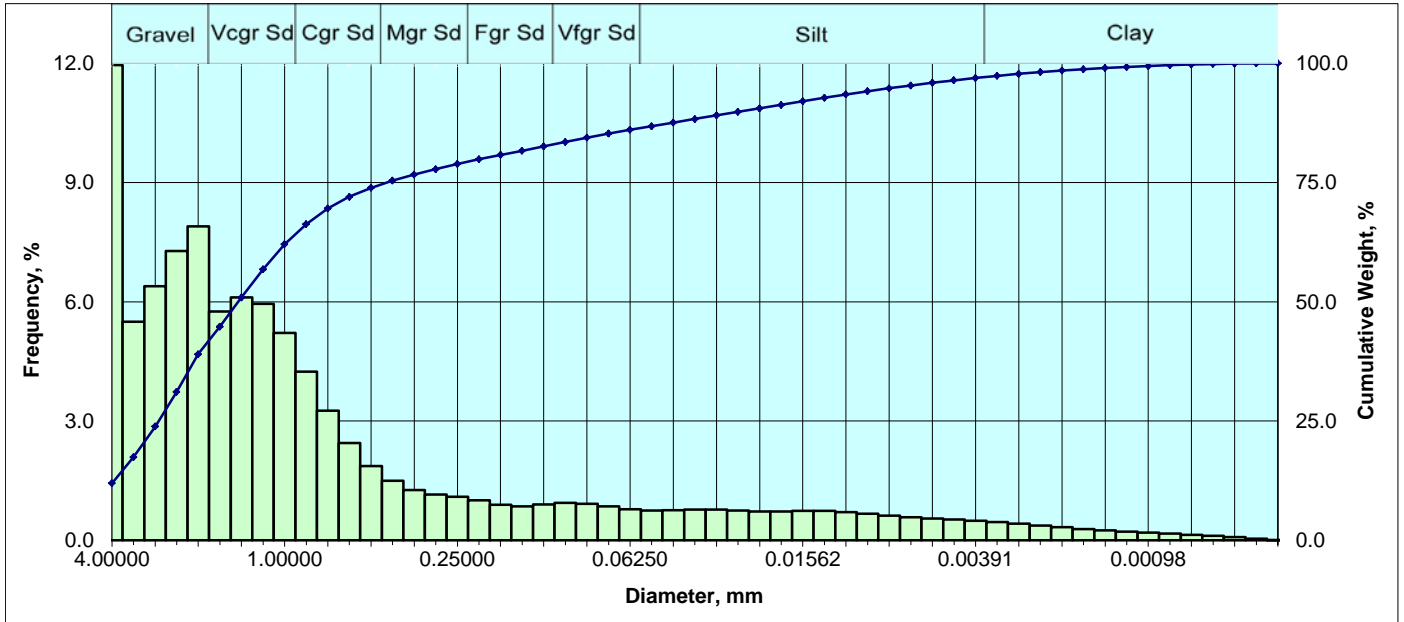


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	16.110	16.11
	6	0.132425	3.36359	-1.75	10.195	26.30
	7	0.111355	2.82843	-1.50	10.160	36.46
	8	0.093638	2.37841	-1.25	10.125	46.59
	10	0.078740	2.00000	-1.00	7.794	54.38
V Crse Sand	12	0.066212	1.68179	-0.75	4.359	58.74
	14	0.055678	1.41421	-0.50	4.732	63.48
	16	0.046819	1.18921	-0.25	4.796	68.27
	18	0.039370	1.00000	0.00	4.515	72.79
Coarse Sand	20	0.033106	0.84090	0.25	4.015	76.80
	25	0.027839	0.70711	0.50	3.373	80.17
	30	0.023410	0.59460	0.75	2.745	82.92
	35	0.019685	0.50000	1.00	2.246	85.17
Medium Sand	40	0.016553	0.42045	1.25	1.888	87.05
	45	0.013919	0.35355	1.50	1.606	88.66
	50	0.011705	0.29730	1.75	1.380	90.04
	60	0.009843	0.25000	2.00	1.192	91.23
Fine Sand	70	0.008277	0.21022	2.25	1.010	92.24
	80	0.006960	0.17678	2.50	0.824	93.07
	100	0.005852	0.14865	2.75	0.680	93.75
	120	0.004921	0.12500	3.00	0.607	94.35
V. Fine Sand	140	0.004138	0.10511	3.25	0.564	94.92
	170	0.003480	0.08839	3.50	0.510	95.43
	200	0.002926	0.07433	3.75	0.437	95.86
	230	0.002461	0.06250	4.00	0.359	96.22
	Silt	270	0.002069	0.05256	4.25	0.297
325		0.001740	0.04419	4.50	0.258	96.78
400		0.001463	0.03716	4.75	0.232	97.01
450		0.001230	0.03125	5.00	0.206	97.22
500		0.001035	0.02628	5.25	0.181	97.40
635		0.000870	0.02210	5.50	0.164	97.56
		0.000732	0.01858	5.75	0.159	97.72
		0.000615	0.01562	6.00	0.159	97.88
		0.000517	0.01314	6.25	0.156	98.03
		0.000435	0.01105	6.50	0.148	98.18
		0.000366	0.00929	6.75	0.141	98.32
Clay		0.000308	0.00781	7.00	0.135	98.46
		0.000259	0.00657	7.25	0.132	98.59
		0.000217	0.00552	7.50	0.131	98.72
		0.000183	0.00465	7.75	0.130	98.85
		0.000154	0.00391	8.00	0.130	98.98
		0.000129	0.00328	8.25	0.128	99.11
		0.000109	0.00276	8.50	0.124	99.23
		0.000091	0.00232	8.75	0.117	99.35
		0.000077	0.00195	9.00	0.109	99.46
		0.000065	0.00164	9.25	0.100	99.56
		0.000054	0.00138	9.50	0.091	99.65
	0.000046	0.00116	9.75	0.081	99.73	
	0.000038	0.00098	10.00	0.071	99.80	
	0.000032	0.00082	10.25	0.061	99.87	
	0.000027	0.00069	10.50	0.050	99.92	
	0.000023	0.00058	10.75	0.039	99.95	
	0.000019	0.00049	11.00	0.027	99.98	
	0.000016	0.00041	11.25	0.014	100.00	
	0.000015	0.00038	11.50	0.004	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.0871	0.0871	0.0871	
(mm)	2.2129	2.2129	2.2129	
Mean	Very coarse sand sized			
(in)	0.0858	0.0586	0.0669	
(mm)	2.1787	1.4890	1.6992	
Sorting	Poor			
	1.943	1.439	1.667	
Skewness	Strongly fine skewed			
	0.801	0.908	0.408	
Kurtosis	Lepokurtic			
	0.218	1.172	1.337	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
54.38	41.84	2.76	1.02	3.78
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3075	7.8102	-2.9654	
10	0.2400	6.0954	-2.6077	
16	0.1590	4.0377	-2.0135	
25	0.1356	3.4450	-1.7845	
30	0.1248	3.1689	-1.6640	
50	0.0871	2.2129	-1.1459	
60	0.0634	1.6107	-0.6877	
75	0.0359	0.9123	0.1324	
84	0.0216	0.5491	0.8649	
90	0.0118	0.2989	1.7422	
95	0.0040	0.1024	3.2880	



Sieve and Laser Particle Size Analysis

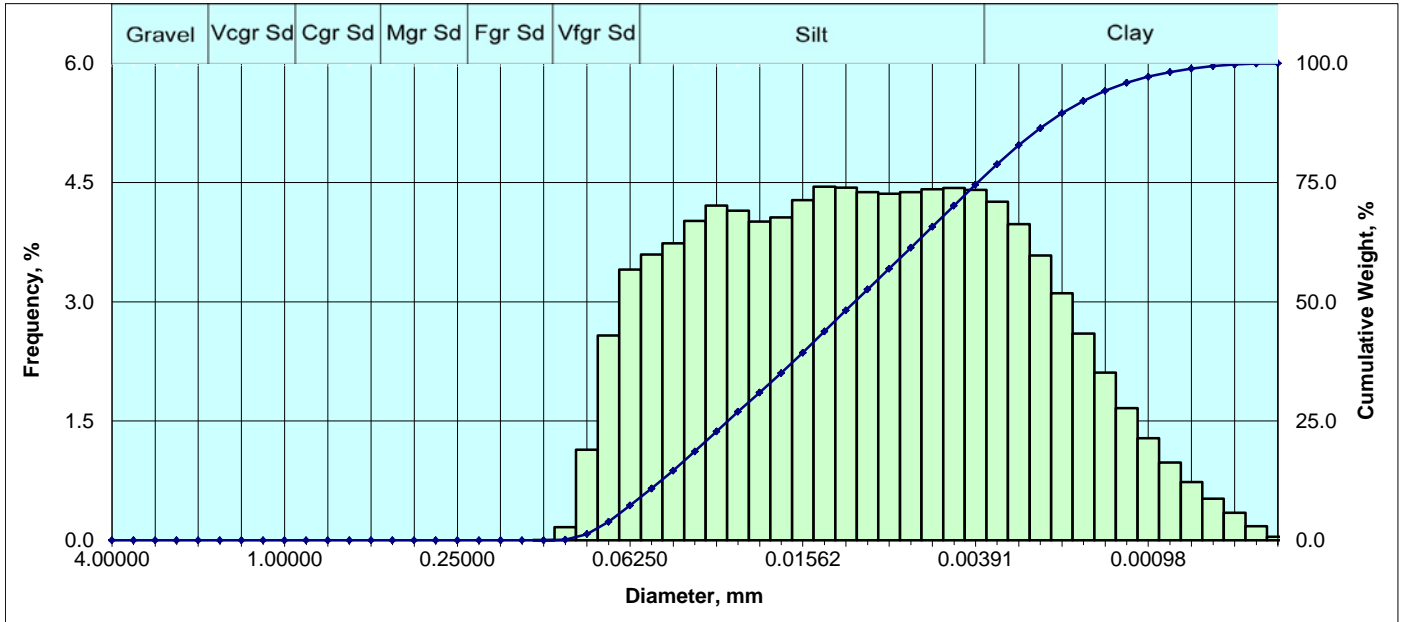


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	11.957	11.96
	6	0.132425	3.36359	-1.75	5.503	17.46
	7	0.111355	2.82843	-1.50	6.392	23.85
	8	0.093638	2.37841	-1.25	7.282	31.13
	10	0.078740	2.00000	-1.00	7.902	39.04
V Crse Sand	12	0.066212	1.68179	-0.75	5.757	44.79
	14	0.055678	1.41421	-0.50	6.107	50.90
	16	0.046819	1.18921	-0.25	5.948	56.85
	18	0.039370	1.00000	0.00	5.221	62.07
Coarse Sand	20	0.033106	0.84090	0.25	4.246	66.32
	25	0.027839	0.70711	0.50	3.264	69.58
	30	0.023410	0.59460	0.75	2.451	72.03
	35	0.019685	0.50000	1.00	1.868	73.90
Medium Sand	40	0.016553	0.42045	1.25	1.500	75.40
	45	0.013919	0.35355	1.50	1.268	76.67
	50	0.011705	0.29730	1.75	1.151	77.82
	60	0.009843	0.25000	2.00	1.092	78.91
Fine Sand	70	0.008277	0.21022	2.25	1.010	79.92
	80	0.006960	0.17678	2.50	0.897	80.82
	100	0.005852	0.14865	2.75	0.853	81.67
	120	0.004921	0.12500	3.00	0.899	82.57
V. Fine Sand	140	0.004138	0.10511	3.25	0.942	83.51
	170	0.003480	0.08839	3.50	0.919	84.43
	200	0.002926	0.07433	3.75	0.852	85.28
	230	0.002461	0.06250	4.00	0.785	86.06
	Silt	270	0.002069	0.05256	4.25	0.748
325		0.001740	0.04419	4.50	0.754	87.57
400		0.001463	0.03716	4.75	0.770	88.34
450		0.001230	0.03125	5.00	0.770	89.11
500		0.001035	0.02628	5.25	0.746	89.85
635		0.000870	0.02210	5.50	0.722	90.58
		0.000732	0.01858	5.75	0.722	91.30
		0.000615	0.01562	6.00	0.740	92.04
		0.000517	0.01314	6.25	0.744	92.78
		0.000435	0.01105	6.50	0.712	93.49
		0.000366	0.00929	6.75	0.666	94.16
		0.000308	0.00781	7.00	0.622	94.78
Clay		0.000259	0.00657	7.25	0.584	95.37
		0.000217	0.00552	7.50	0.551	95.92
		0.000183	0.00465	7.75	0.520	96.44
		0.000154	0.00391	8.00	0.491	96.93
		0.000129	0.00328	8.25	0.457	97.39
		0.000109	0.00276	8.50	0.418	97.80
		0.000091	0.00232	8.75	0.374	98.18
		0.000077	0.00195	9.00	0.329	98.51
		0.000065	0.00164	9.25	0.286	98.79
		0.000054	0.00138	9.50	0.249	99.04
		0.000046	0.00116	9.75	0.218	99.26
		0.000038	0.00098	10.00	0.191	99.45
	0.000032	0.00082	10.25	0.166	99.62	
	0.000027	0.00069	10.50	0.140	99.76	
	0.000023	0.00058	10.75	0.111	99.87	
	0.000019	0.00049	11.00	0.079	99.95	
	0.000016	0.00041	11.25	0.042	99.99	
	0.000015	0.00038	11.50	0.010	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0572	0.0572	0.0572	
(mm)	1.4537	1.4537	1.4537	
Mean	Coarse sand sized			
(in)	0.0630	0.0229	0.0311	
(mm)	1.5995	0.5829	0.7905	
Sorting	V. Poor			
	2.499	2.599	2.806	
Skewness	Strongly fine skewed			
	0.759	1.023	0.521	
Kurtosis	Very leptokurtic			
	0.237	0.912	1.541	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
39.04	47.03	10.86	3.07	13.94
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2840	7.2146	-2.8509	
10	0.1931	4.9043	-2.2940	
16	0.1391	3.5324	-1.8206	
25	0.1086	2.7575	-1.4633	
30	0.0964	2.4485	-1.2919	
50	0.0572	1.4537	-0.5397	
60	0.0423	1.0750	-0.1043	
75	0.0174	0.4415	1.1794	
84	0.0038	0.0962	3.3780	
90	0.0010	0.0254	5.2973	
95	0.0003	0.0074	7.0880	



Sieve and Laser Particle Size Analysis

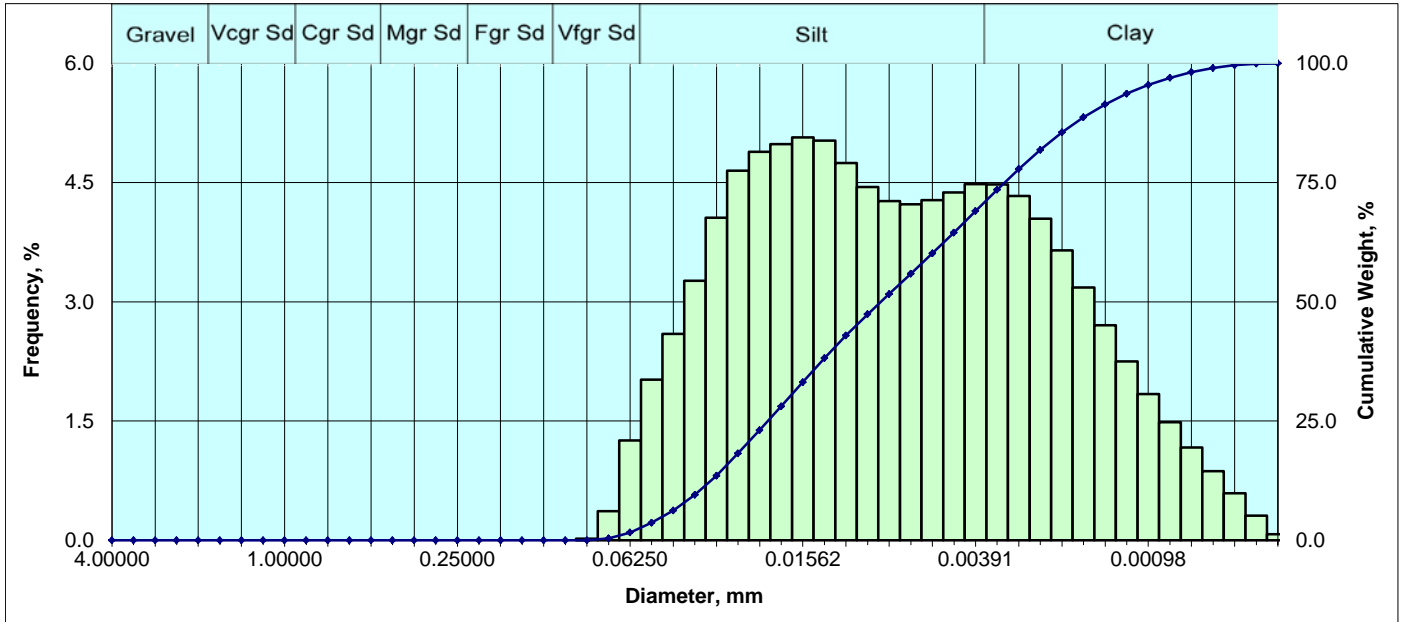


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.002	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.165	0.17
	170	0.003480	0.08839	3.50	1.140	1.31
	200	0.002926	0.07433	3.75	2.578	3.88
	230	0.002461	0.06250	4.00	3.407	7.29
	Silt	270	0.002069	0.05256	4.25	3.596
325		0.001740	0.04419	4.50	3.734	14.62
400		0.001463	0.03716	4.75	4.018	18.64
450		0.001230	0.03125	5.00	4.210	22.85
500		0.001035	0.02628	5.25	4.145	26.99
635		0.000870	0.02210	5.50	4.011	31.01
		0.000732	0.01858	5.75	4.064	35.07
		0.000615	0.01562	6.00	4.279	39.35
		0.000517	0.01314	6.25	4.449	43.80
		0.000435	0.01105	6.50	4.437	48.23
		0.000366	0.00929	6.75	4.380	52.61
		0.000308	0.00781	7.00	4.359	56.97
		0.000259	0.00657	7.25	4.378	61.35
	0.000217	0.00552	7.50	4.415	65.77	
	0.000183	0.00465	7.75	4.432	70.20	
	0.000154	0.00391	8.00	4.409	74.61	
Clay		0.000129	0.00328	8.25	4.259	78.87
		0.000109	0.00276	8.50	3.979	82.85
		0.000091	0.00232	8.75	3.584	86.43
		0.000077	0.00195	9.00	3.110	89.54
		0.000065	0.00164	9.25	2.602	92.14
		0.000054	0.00138	9.50	2.110	94.25
		0.000046	0.00116	9.75	1.662	95.92
		0.000038	0.00098	10.00	1.283	97.20
		0.000032	0.00082	10.25	0.979	98.18
		0.000027	0.00069	10.50	0.731	98.91
		0.000023	0.00058	10.75	0.525	99.43
		0.000019	0.00049	11.00	0.345	99.78
		0.000016	0.00041	11.25	0.178	99.96
		0.000015	0.00038	11.50	0.044	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0103	0.0103	0.0103	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0163	0.0105	0.0104	
Sorting	Poor			
	2.729	1.997	1.874	
Skewness	Near symmetrical			
	1.016	0.061	0.017	
Kurtosis	Platykurtic			
	0.234	0.447	0.818	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	7.29	67.32	25.39	92.71
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0028	0.0705	3.8272	
10	0.0022	0.0550	4.1842	
16	0.0016	0.0418	4.5810	
25	0.0011	0.0287	5.1243	
30	0.0009	0.0231	5.4331	
50	0.0004	0.0103	6.5956	
60	0.0003	0.0070	7.1681	
75	0.0002	0.0038	8.0213	
84	0.0001	0.0026	8.5758	
90	0.0001	0.0019	9.0411	
95	0.0001	0.0013	9.6070	



Sieve and Laser Particle Size Analysis

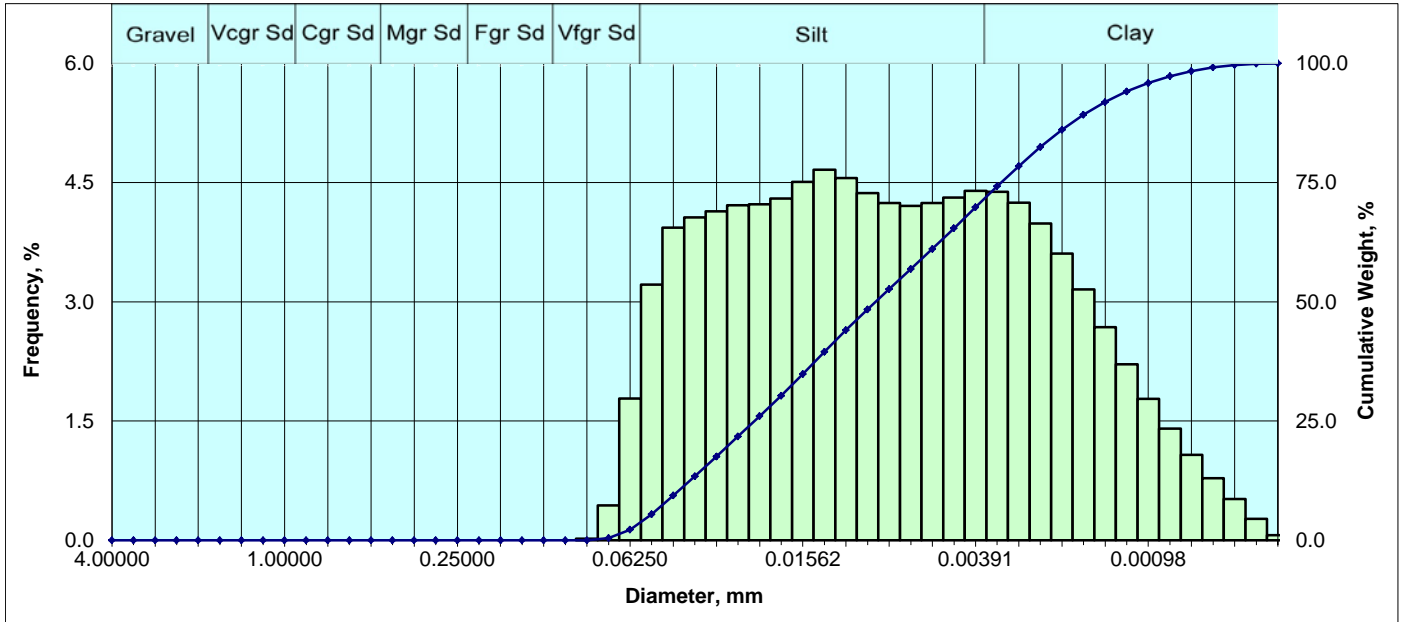


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.022	0.02
	200	0.002926	0.07433	3.75	0.367	0.39
	230	0.002461	0.06250	4.00	1.256	1.65
Silt	270	0.002069	0.05256	4.25	2.021	3.67
	325	0.001740	0.04419	4.50	2.596	6.26
	400	0.001463	0.03716	4.75	3.264	9.53
	450	0.001230	0.03125	5.00	4.059	13.59
	500	0.001035	0.02628	5.25	4.650	18.24
	635	0.000870	0.02210	5.50	4.889	23.12
		0.000732	0.01858	5.75	4.982	28.11
		0.000615	0.01562	6.00	5.070	33.18
		0.000517	0.01314	6.25	5.028	38.21
		0.000435	0.01105	6.50	4.745	42.95
		0.000366	0.00929	6.75	4.442	47.39
	0.000308	0.00781	7.00	4.268	51.66	
	0.000259	0.00657	7.25	4.226	55.89	
	0.000217	0.00552	7.50	4.279	60.17	
	0.000183	0.00465	7.75	4.376	64.54	
	0.000154	0.00391	8.00	4.482	69.02	
Clay		0.000129	0.00328	8.25	4.477	73.50
		0.000109	0.00276	8.50	4.332	77.83
		0.000091	0.00232	8.75	4.045	81.88
		0.000077	0.00195	9.00	3.647	85.52
		0.000065	0.00164	9.25	3.181	88.70
		0.000054	0.00138	9.50	2.704	91.41
		0.000046	0.00116	9.75	2.250	93.66
		0.000038	0.00098	10.00	1.840	95.50
		0.000032	0.00082	10.25	1.486	96.99
		0.000027	0.00069	10.50	1.166	98.15
		0.000023	0.00058	10.75	0.872	99.02
		0.000019	0.00049	11.00	0.591	99.61
		0.000016	0.00041	11.25	0.310	99.92
		0.000015	0.00038	11.50	0.076	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0084	0.0084	0.0084	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0003	
(mm)	0.0119	0.0078	0.0080	
Sorting	Poor			
	2.587	1.883	1.783	
Skewness	Near symmetrical			
	0.957	0.134	0.075	
Kurtosis	Platykurtic			
	0.253	0.475	0.830	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	1.65	67.38	30.98	98.35
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0019	0.0483	4.3730	
10	0.0014	0.0365	4.7770	
16	0.0011	0.0287	5.1244	
25	0.0008	0.0208	5.5891	
30	0.0007	0.0175	5.8384	
50	0.0003	0.0084	6.8975	
60	0.0002	0.0056	7.4895	
75	0.0001	0.0031	8.3318	
84	0.0001	0.0021	8.8902	
90	0.0001	0.0015	9.3643	
95	0.0000	0.0010	9.9277	



Sieve and Laser Particle Size Analysis

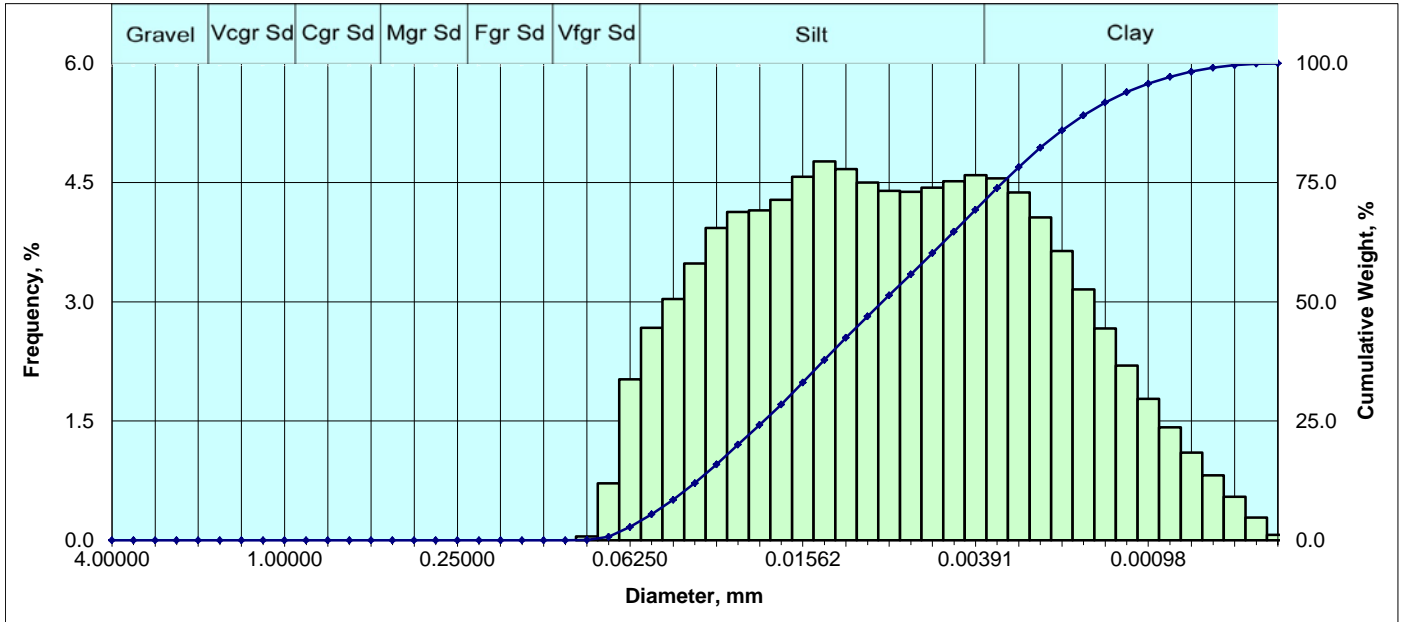


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.022	0.02
	200	0.002926	0.07433	3.75	0.439	0.46
	230	0.002461	0.06250	4.00	1.784	2.24
Silt	270	0.002069	0.05256	4.25	3.216	5.46
	325	0.001740	0.04419	4.50	3.933	9.39
	400	0.001463	0.03716	4.75	4.061	13.45
	450	0.001230	0.03125	5.00	4.137	17.59
	500	0.001035	0.02628	5.25	4.215	21.81
	635	0.000870	0.02210	5.50	4.227	26.03
		0.000732	0.01858	5.75	4.301	30.34
		0.000615	0.01562	6.00	4.508	34.84
		0.000517	0.01314	6.25	4.664	39.51
		0.000435	0.01105	6.50	4.556	44.06
		0.000366	0.00929	6.75	4.367	48.43
		0.000308	0.00781	7.00	4.244	52.68
		0.000259	0.00657	7.25	4.207	56.88
	0.000217	0.00552	7.50	4.242	61.12	
	0.000183	0.00465	7.75	4.313	65.44	
	0.000154	0.00391	8.00	4.396	69.83	
Clay		0.000129	0.00328	8.25	4.384	74.22
		0.000109	0.00276	8.50	4.249	78.47
		0.000091	0.00232	8.75	3.984	82.45
		0.000077	0.00195	9.00	3.608	86.06
		0.000065	0.00164	9.25	3.158	89.22
		0.000054	0.00138	9.50	2.681	91.90
		0.000046	0.00116	9.75	2.212	94.11
		0.000038	0.00098	10.00	1.780	95.89
		0.000032	0.00082	10.25	1.404	97.29
		0.000027	0.00069	10.50	1.073	98.37
		0.000023	0.00058	10.75	0.782	99.15
		0.000019	0.00049	11.00	0.518	99.67
		0.000016	0.00041	11.25	0.268	99.93
	0.000015	0.00038	11.50	0.065	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0087	0.0087	0.0087	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0003	
(mm)	0.0132	0.0085	0.0086	
Sorting	Poor			
	2.693	1.977	1.846	
Skewness	Near symmetrical			
	0.982	0.103	0.045	
Kurtosis	Platykurtic			
	0.240	0.431	0.811	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	2.24	67.59	30.17	97.76
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0021	0.0540	4.2114	
10	0.0017	0.0431	4.5347	
16	0.0013	0.0335	4.8986	
25	0.0009	0.0231	5.4347	
30	0.0007	0.0189	5.7289	
50	0.0003	0.0087	6.8375	
60	0.0002	0.0058	7.4294	
75	0.0001	0.0032	8.2929	
84	0.0001	0.0022	8.8522	
90	0.0001	0.0016	9.3188	
95	0.0000	0.0011	9.8698	



Sieve and Laser Particle Size Analysis

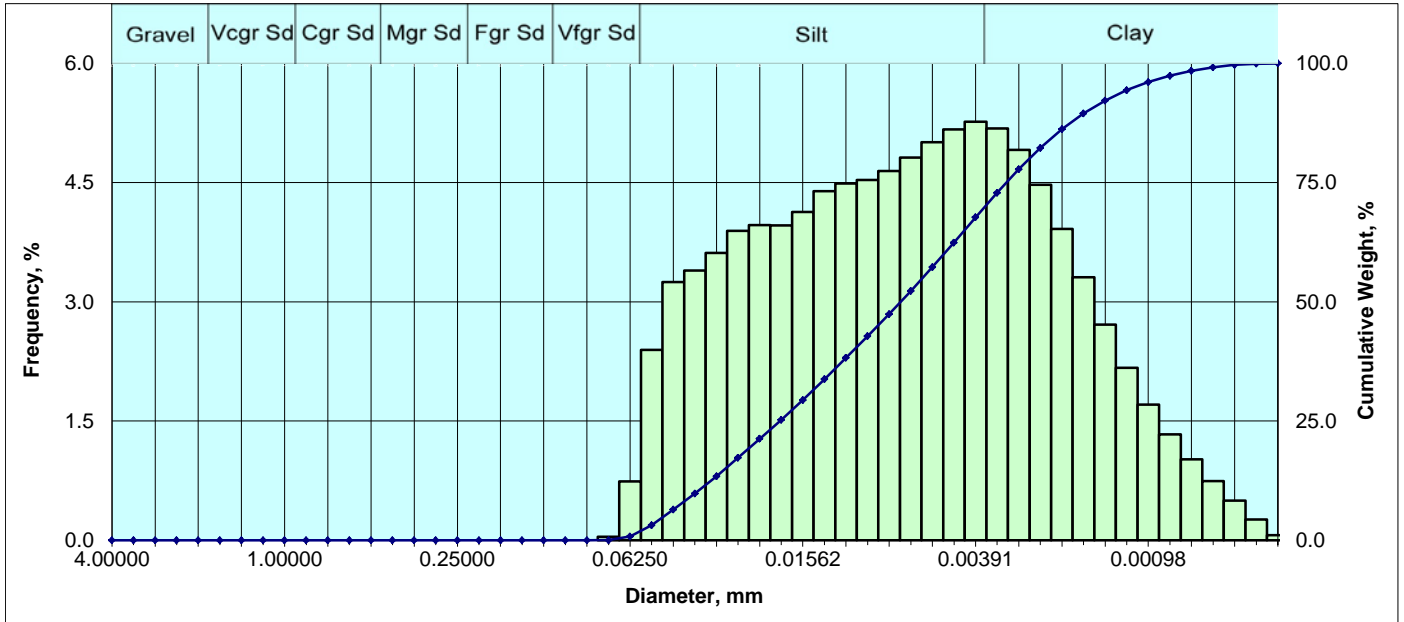


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.051	0.05
	200	0.002926	0.07433	3.75	0.716	0.77
	230	0.002461	0.06250	4.00	2.024	2.79
	Silt	270	0.002069	0.05256	4.25	2.675
325		0.001740	0.04419	4.50	3.036	8.50
400		0.001463	0.03716	4.75	3.484	11.99
450		0.001230	0.03125	5.00	3.931	15.92
500		0.001035	0.02628	5.25	4.131	20.05
635		0.000870	0.02210	5.50	4.151	24.20
		0.000732	0.01858	5.75	4.284	28.48
		0.000615	0.01562	6.00	4.572	33.06
		0.000517	0.01314	6.25	4.765	37.82
		0.000435	0.01105	6.50	4.671	42.49
		0.000366	0.00929	6.75	4.499	46.99
		0.000308	0.00781	7.00	4.397	51.39
		0.000259	0.00657	7.25	4.384	55.77
	0.000217	0.00552	7.50	4.438	60.21	
	0.000183	0.00465	7.75	4.517	64.73	
	0.000154	0.00391	8.00	4.593	69.32	
Clay		0.000129	0.00328	8.25	4.554	73.87
		0.000109	0.00276	8.50	4.376	78.25
		0.000091	0.00232	8.75	4.062	82.31
		0.000077	0.00195	9.00	3.641	85.95
		0.000065	0.00164	9.25	3.158	89.11
		0.000054	0.00138	9.50	2.665	91.78
		0.000046	0.00116	9.75	2.198	93.97
		0.000038	0.00098	10.00	1.779	95.75
		0.000032	0.00082	10.25	1.421	97.17
		0.000027	0.00069	10.50	1.103	98.28
		0.000023	0.00058	10.75	0.817	99.09
		0.000019	0.00049	11.00	0.550	99.64
		0.000016	0.00041	11.25	0.287	99.93
		0.000015	0.00038	11.50	0.070	100.00

Sorting Statistics (Folk)						
Parameter	Trask	Inman	Folk			
Median	Silt sized					
(in)	0.0003	0.0003	0.0003			
(mm)	0.0083	0.0083	0.0083			
Mean	Silt sized					
(in)	0.0005	0.0003	0.0003			
(mm)	0.0123	0.0082	0.0082			
Sorting	Poor					
	2.609	1.928	1.825			
Skewness	Near symmetrical					
	0.993	0.067	0.027			
Kurtosis	Platykurtic					
	0.231	0.475	0.842			
Component Percentages						
Gravel	Sand	Silt	Clay	Silt + Clay		
0.00	2.79	66.53	30.68	97.21		
Percentile [Weight, %]				Particle Diameter		
	(in.)	(mm)	(phi)			
5	0.0021	0.0543	4.2032			
10	0.0016	0.0412	4.6022			
16	0.0012	0.0312	5.0046			
25	0.0008	0.0214	5.5435			
30	0.0007	0.0176	5.8282			
50	0.0003	0.0083	6.9163			
60	0.0002	0.0056	7.4872			
75	0.0001	0.0032	8.3103			
84	0.0001	0.0022	8.8605			
90	0.0001	0.0016	9.3287			
95	0.0000	0.0011	9.8889			



Sieve and Laser Particle Size Analysis

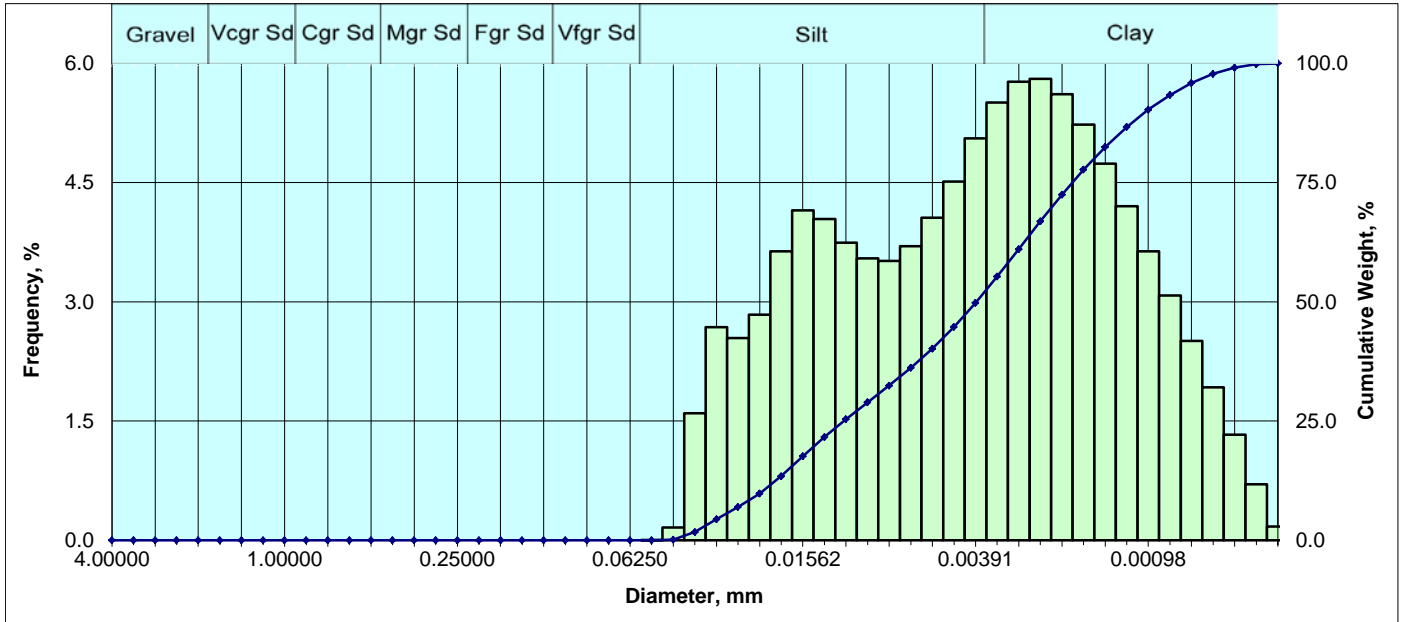


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]	
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.046	0.05
Silt	230	0.002461	0.06250	4.00	0.741	0.79
	270	0.002069	0.05256	4.25	2.395	3.18
	325	0.001740	0.04419	4.50	3.248	6.43
	400	0.001463	0.03716	4.75	3.992	9.82
	450	0.001230	0.03125	5.00	3.616	13.44
	500	0.001035	0.02628	5.25	3.894	17.33
	635	0.000870	0.02210	5.50	3.967	21.30
		0.000732	0.01858	5.75	3.960	25.26
		0.000615	0.01562	6.00	4.129	29.39
		0.000517	0.01314	6.25	4.394	33.78
Clay		0.000435	0.01105	6.50	4.487	38.27
		0.000366	0.00929	6.75	4.532	42.80
		0.000308	0.00781	7.00	4.647	47.45
		0.000259	0.00657	7.25	4.817	52.27
		0.000217	0.00552	7.50	5.006	57.27
		0.000183	0.00465	7.75	5.168	62.44
		0.000154	0.00391	8.00	5.266	67.71
		0.000129	0.00328	8.25	5.182	72.89
		0.000109	0.00276	8.50	4.910	77.80
		0.000091	0.00232	8.75	4.471	82.27
		0.000077	0.00195	9.00	3.916	86.19
		0.000065	0.00164	9.25	3.308	89.49
		0.000054	0.00138	9.50	2.713	92.21
		0.000046	0.00116	9.75	2.170	94.38
		0.000038	0.00098	10.00	1.707	96.08
	0.000032	0.00082	10.25	1.332	97.42	
	0.000027	0.00069	10.50	1.017	98.43	
	0.000023	0.00058	10.75	0.745	99.18	
	0.000019	0.00049	11.00	0.498	99.68	
	0.000016	0.00041	11.25	0.260	99.94	
	0.000015	0.00038	11.50	0.064	100.00	

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0072	0.0072	0.0072
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0109	0.0078	0.0076
Sorting	Poor		
	2.479	1.848	1.750
Skewness	Near symmetrical		
	1.061	-0.009	-0.035
Kurtosis	Platykurtic		
	0.223	0.475	0.853
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	0.79	66.92	32.29
Percentile [Weight, %]			
		Particle Diameter	
		[in.]	[mm]
5	0.0019	0.0479	4.3846
10	0.0015	0.0369	4.7614
16	0.0011	0.0280	5.1595
25	0.0007	0.0188	5.7322
30	0.0006	0.0153	6.0323
50	0.0003	0.0072	7.1270
60	0.0002	0.0051	7.6265
75	0.0001	0.0031	8.3523
84	0.0001	0.0022	8.8551
90	0.0001	0.0016	9.2935
95	0.0000	0.0011	9.8364



Sieve and Laser Particle Size Analysis

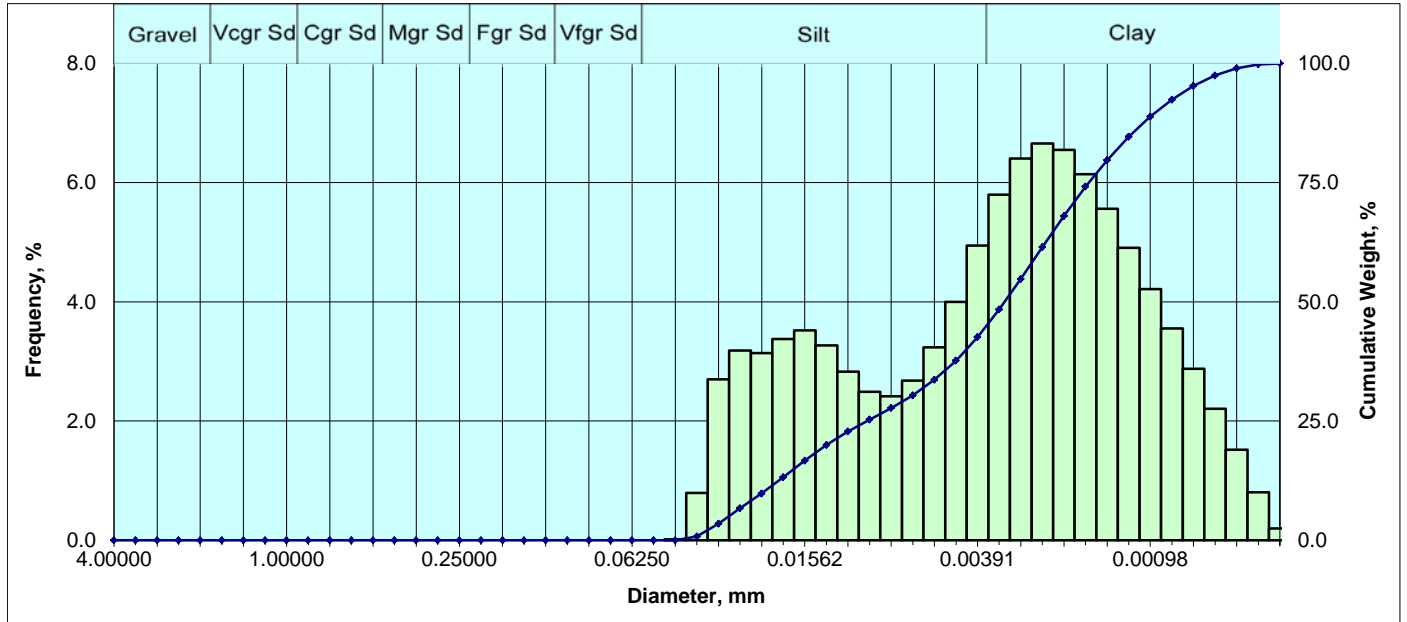


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
Silt	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.160	0.16
	400	0.001463	0.03716	4.75	1.598	1.76
	450	0.001230	0.03125	5.00	2.682	4.44
	500	0.001035	0.02628	5.25	2.543	6.98
	635	0.000870	0.02210	5.50	2.839	9.82
		0.000732	0.01858	5.75	3.637	13.46
		0.000615	0.01562	6.00	4.152	17.61
		0.000517	0.01314	6.25	4.043	21.65
		0.000435	0.01105	6.50	3.743	25.40
Clay		0.000366	0.00929	6.75	3.545	28.94
		0.000308	0.00781	7.00	3.514	32.46
		0.000259	0.00657	7.25	3.699	36.16
		0.000217	0.00552	7.50	4.060	40.22
		0.000183	0.00465	7.75	4.513	44.73
		0.000154	0.00391	8.00	5.056	49.78
		0.000129	0.00328	8.25	5.506	55.29
		0.000109	0.00276	8.50	5.769	61.06
		0.000091	0.00232	8.75	5.805	66.86
		0.000077	0.00195	9.00	5.610	72.47
		0.000065	0.00164	9.25	5.228	77.70
		0.000054	0.00138	9.50	4.739	82.44
		0.000046	0.00116	9.75	4.202	86.64
		0.000038	0.00098	10.00	3.637	90.28
		0.000032	0.00082	10.25	3.081	93.36
	0.000027	0.00069	10.50	2.507	95.87	
	0.000023	0.00058	10.75	1.926	97.79	
	0.000019	0.00049	11.00	1.329	99.12	
	0.000016	0.00041	11.25	0.704	99.83	
	0.000015	0.00038	11.50	0.172	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Clay sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0039	0.0039	0.0039	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0065	0.0047	0.0044	
Sorting	Poor			
	2.500	1.845	1.734	
Skewness	Coarse skewed			
	1.161	-0.151	-0.124	
Kurtosis	Platykurtic			
	0.226	0.452	0.830	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	49.78	50.22	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0012	0.0302	5.0515	
10	0.0009	0.0219	5.5113	
16	0.0007	0.0168	5.8978	
25	0.0004	0.0113	6.4713	
30	0.0003	0.0088	6.8208	
50	0.0002	0.0039	8.0090	
60	0.0001	0.0029	8.4507	
75	0.0001	0.0018	9.1154	
84	0.0001	0.0013	9.5878	
90	0.0000	0.0010	9.9791	
95	0.0000	0.0007	10.4084	



Sieve and Laser Particle Size Analysis

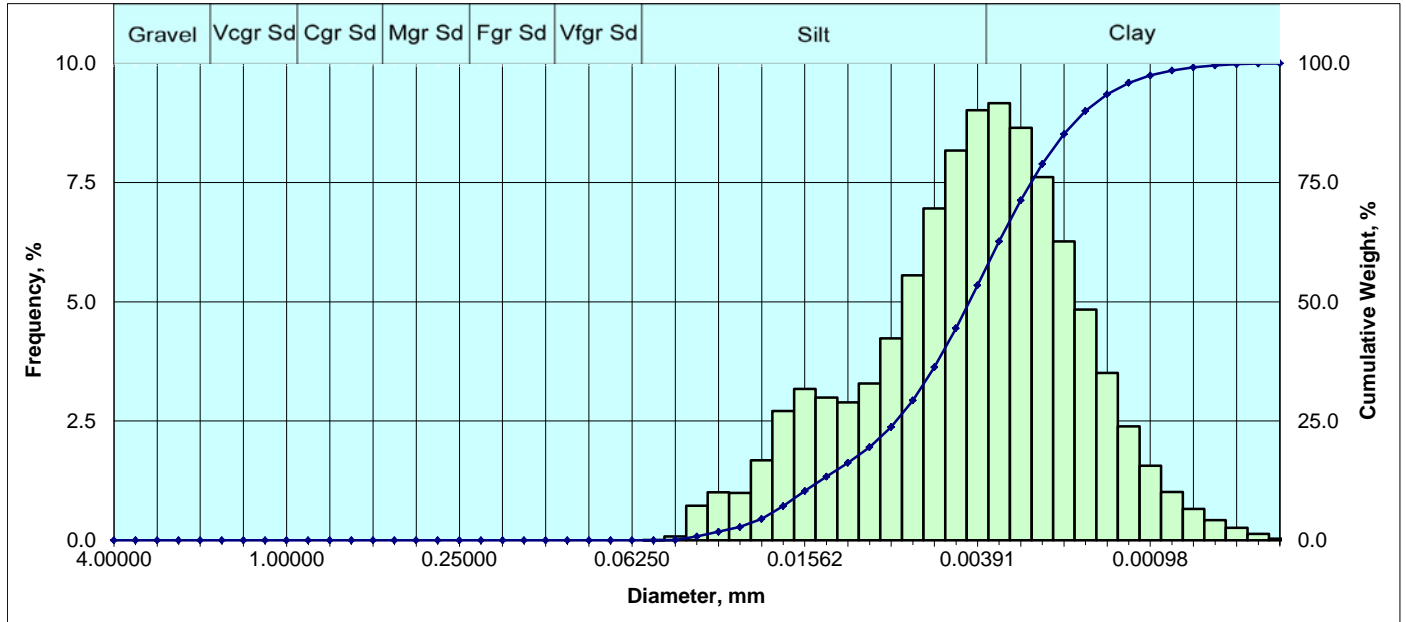


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
Silt	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.018	0.02
	400	0.001463	0.03716	4.75	0.793	0.81
	450	0.001230	0.03125	5.00	2.699	3.51
	500	0.001035	0.02628	5.25	3.182	6.69
	635	0.000870	0.02210	5.50	3.143	9.84
		0.000732	0.01858	5.75	3.377	13.21
		0.000615	0.01562	6.00	3.522	16.73
		0.000517	0.01314	6.25	3.270	20.00
		0.000435	0.01105	6.50	2.828	22.83
Clay		0.000366	0.00929	6.75	2.492	25.32
		0.000308	0.00781	7.00	2.417	27.74
		0.000259	0.00657	7.25	2.680	30.42
		0.000217	0.00552	7.50	3.239	33.66
		0.000183	0.00465	7.75	4.001	37.66
		0.000154	0.00391	8.00	4.943	42.60
		0.000129	0.00328	8.25	5.799	48.40
		0.000109	0.00276	8.50	6.402	54.80
		0.000091	0.00232	8.75	6.658	61.46
		0.000077	0.00195	9.00	6.550	68.01
		0.000065	0.00164	9.25	6.143	74.16
		0.000054	0.00138	9.50	5.563	79.72
		0.000046	0.00116	9.75	4.905	84.62
		0.000038	0.00098	10.00	4.216	88.84
		0.000032	0.00082	10.25	3.551	92.39
	0.000027	0.00069	10.50	2.878	95.27	
	0.000023	0.00058	10.75	2.207	97.47	
	0.000019	0.00049	11.00	1.521	99.00	
	0.000016	0.00041	11.25	0.806	99.80	
	0.000015	0.00038	11.50	0.198	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Clay sized			
(in)	0.0001	0.0001	0.0001	
(mm)	0.0032	0.0032	0.0032	
Mean	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0056	0.0044	0.0039	
Sorting	Poor			
	2.437	1.886	1.755	
Skewness	Coarse skewed			
	1.238	-0.273	-0.223	
Kurtosis	Platykurtic			
	0.188	0.422	0.855	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	42.60	57.40	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0011	0.0289	5.1117	
10	0.0009	0.0219	5.5113	
16	0.0006	0.0162	5.9442	
25	0.0004	0.0095	6.7149	
30	0.0003	0.0068	7.2077	
50	0.0001	0.0032	8.3084	
60	0.0001	0.0024	8.6912	
75	0.0001	0.0016	9.2853	
84	0.0000	0.0012	9.7157	
90	0.0000	0.0009	10.0770	
95	0.0000	0.0007	10.4748	



Sieve and Laser Particle Size Analysis

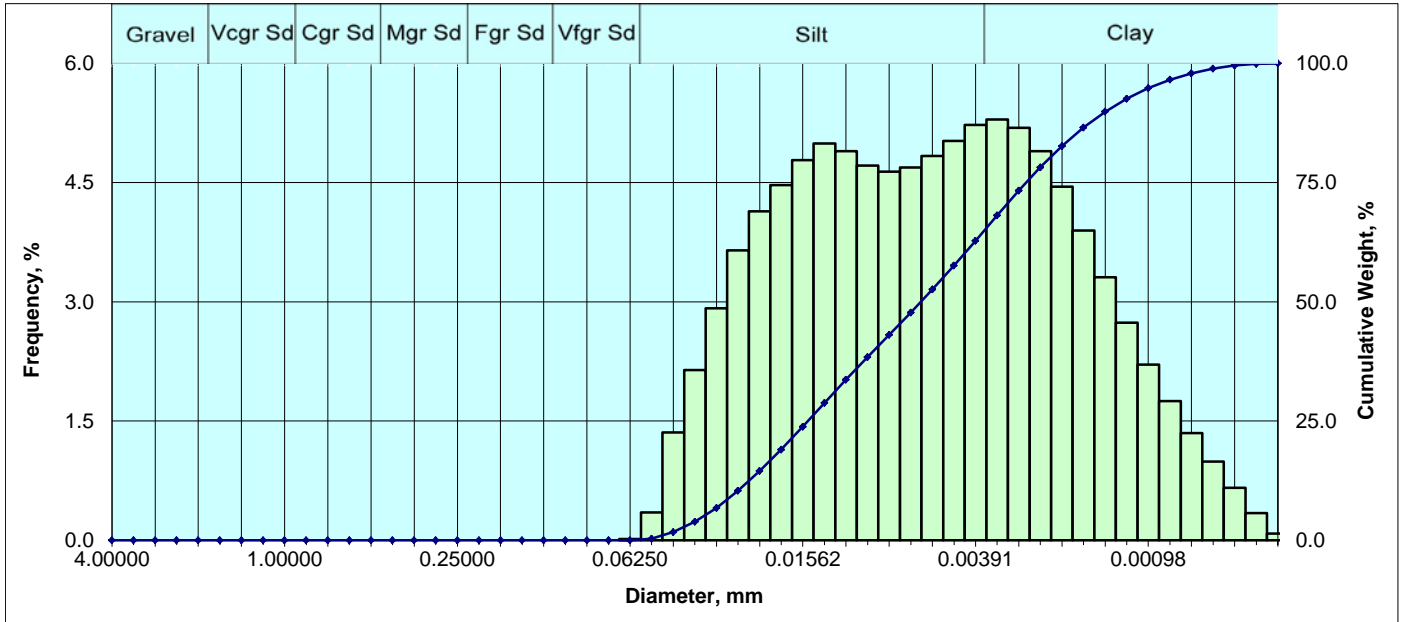


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	Silt	270	0.002069	0.05256	4.25	0.000
325		0.001740	0.04419	4.50	0.082	0.08
400		0.001463	0.03716	4.75	0.725	0.81
450		0.001230	0.03125	5.00	1.006	1.81
500		0.001035	0.02628	5.25	0.990	2.80
635		0.000870	0.02210	5.50	1.676	4.48
		0.000732	0.01858	5.75	2.708	7.19
		0.000615	0.01562	6.00	3.177	10.36
		0.000517	0.01314	6.25	2.994	13.36
		0.000435	0.01105	6.50	2.890	16.25
		0.000366	0.00929	6.75	3.291	19.54
		0.000308	0.00781	7.00	4.236	23.77
		0.000259	0.00657	7.25	5.557	29.33
	0.000217	0.00552	7.50	6.961	36.29	
	0.000183	0.00465	7.75	8.170	44.46	
	0.000154	0.00391	8.00	9.018	53.48	
Clay		0.000129	0.00328	8.25	9.162	62.64
		0.000109	0.00276	8.50	8.650	71.29
		0.000091	0.00232	8.75	7.618	78.91
		0.000077	0.00195	9.00	6.270	85.18
		0.000065	0.00164	9.25	4.837	90.02
		0.000054	0.00138	9.50	3.509	93.53
		0.000046	0.00116	9.75	2.387	95.91
		0.000038	0.00098	10.00	1.564	97.48
		0.000032	0.00082	10.25	1.012	98.49
		0.000027	0.00069	10.50	0.656	99.14
		0.000023	0.00058	10.75	0.424	99.57
		0.000019	0.00049	11.00	0.263	99.83
		0.000016	0.00041	11.25	0.135	99.97
		0.000015	0.00038	11.50	0.033	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0042	0.0042	0.0042	
Mean	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0050	0.0048	0.0046	
Sorting	Poor			
	1.720	1.236	1.240	
Skewness	Coarse skewed			
	1.046	-0.244	-0.148	
Kurtosis	Mesokurtic			
	0.174	0.660	1.075	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	53.48	46.52	100.00
Percentile [Weight. %]		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0008	0.0214	5.5449	
10	0.0006	0.0160	5.9691	
16	0.0004	0.0112	6.4768	
25	0.0003	0.0075	7.0515	
30	0.0003	0.0065	7.2722	
50	0.0002	0.0042	7.8983	
60	0.0001	0.0035	8.1733	
75	0.0001	0.0025	8.6163	
84	0.0001	0.0020	8.9495	
90	0.0001	0.0016	9.2491	
95	0.0000	0.0012	9.6493	



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.017	0.02
	Silt	270	0.002069	0.05256	4.25	0.351
325		0.001740	0.04419	4.50	1.356	1.72
400		0.001463	0.03716	4.75	2.141	3.86
450		0.001230	0.03125	5.00	2.920	6.78
500		0.001035	0.02628	5.25	3.648	10.43
635		0.000870	0.02210	5.50	4.137	14.57
		0.000732	0.01858	5.75	4.468	19.04
		0.000615	0.01562	6.00	4.783	23.82
		0.000517	0.01314	6.25	4.990	28.81
		0.000435	0.01105	6.50	4.897	33.71
		0.000366	0.00929	6.75	4.716	38.42
		0.000308	0.00781	7.00	4.638	43.06
		0.000259	0.00657	7.25	4.689	47.75
	0.000217	0.00552	7.50	4.834	52.58	
	0.000183	0.00465	7.75	5.025	57.61	
	0.000154	0.00391	8.00	5.227	62.84	
Clay		0.000129	0.00328	8.25	5.295	68.13
		0.000109	0.00276	8.50	5.188	73.32
		0.000091	0.00232	8.75	4.897	78.21
		0.000077	0.00195	9.00	4.449	82.66
		0.000065	0.00164	9.25	3.898	86.56
		0.000054	0.00138	9.50	3.311	89.87
		0.000046	0.00116	9.75	2.736	92.61
		0.000038	0.00098	10.00	2.209	94.82
		0.000032	0.00082	10.25	1.753	96.57
		0.000027	0.00069	10.50	1.349	97.92
		0.000023	0.00058	10.75	0.991	98.91
		0.000019	0.00049	11.00	0.661	99.57
		0.000016	0.00041	11.25	0.344	99.92
		0.000015	0.00038	11.50	0.084	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0002	0.0002	0.0002
(mm)	0.0061	0.0061	0.0061
Mean	Silt sized		
(in)	0.0003	0.0002	0.0002
(mm)	0.0088	0.0062	0.0062
Sorting	Poor		
	2.400	1.753	1.662
Skewness	Near symmetrical		
	1.030	0.041	0.005
Kurtosis	Platykurtic		
	0.244	0.478	0.841
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	0.02	62.82	37.16
Percentile [Weight, %]			
		Particle Diameter	
		[in.]	[mm]
		[φ]	
5	0.0014	0.0349	4.8421
10	0.0011	0.0269	5.2180
16	0.0008	0.0210	5.5754
25	0.0006	0.0150	6.0553
30	0.0005	0.0126	6.3069
50	0.0002	0.0061	7.3610
60	0.0002	0.0043	7.8591
75	0.0001	0.0026	8.5811
84	0.0001	0.0018	9.0809
90	0.0001	0.0014	9.5107
95	0.0000	0.0010	10.0241



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 000 6943-038 (Task M22D)

CL File Number: 1800558

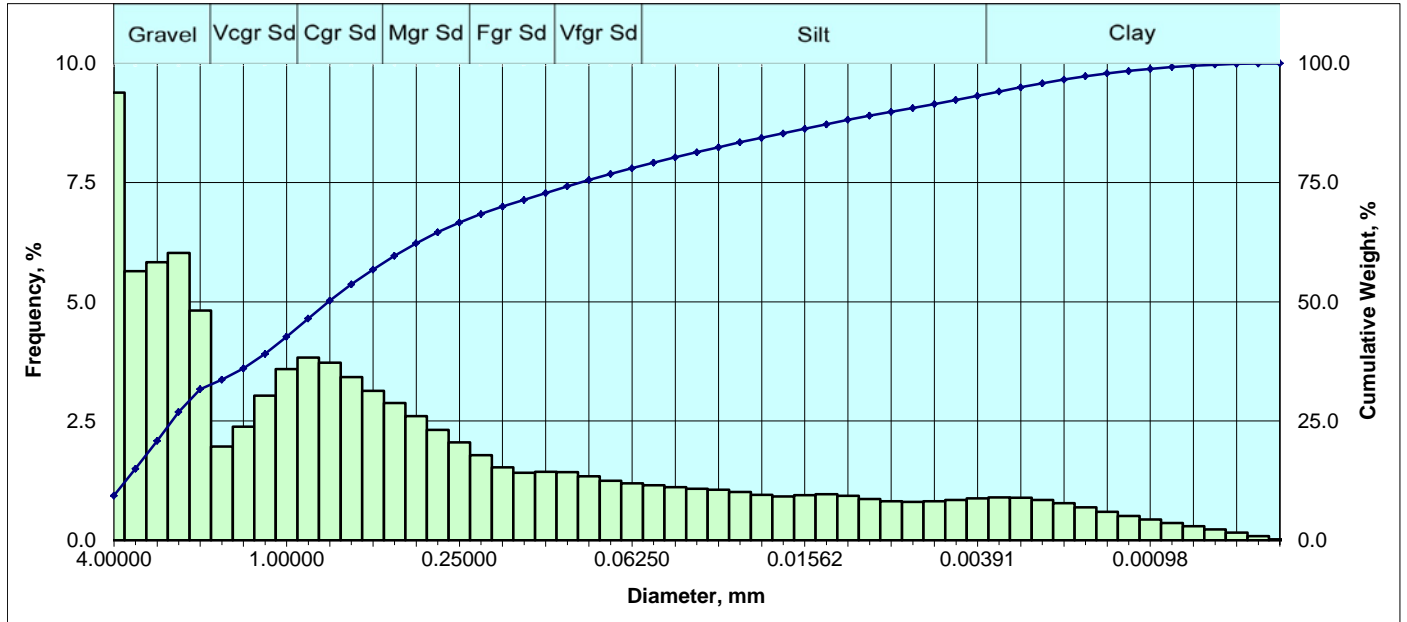
APPENDIX 2

Particle Distribution Plots

Boring TBG1



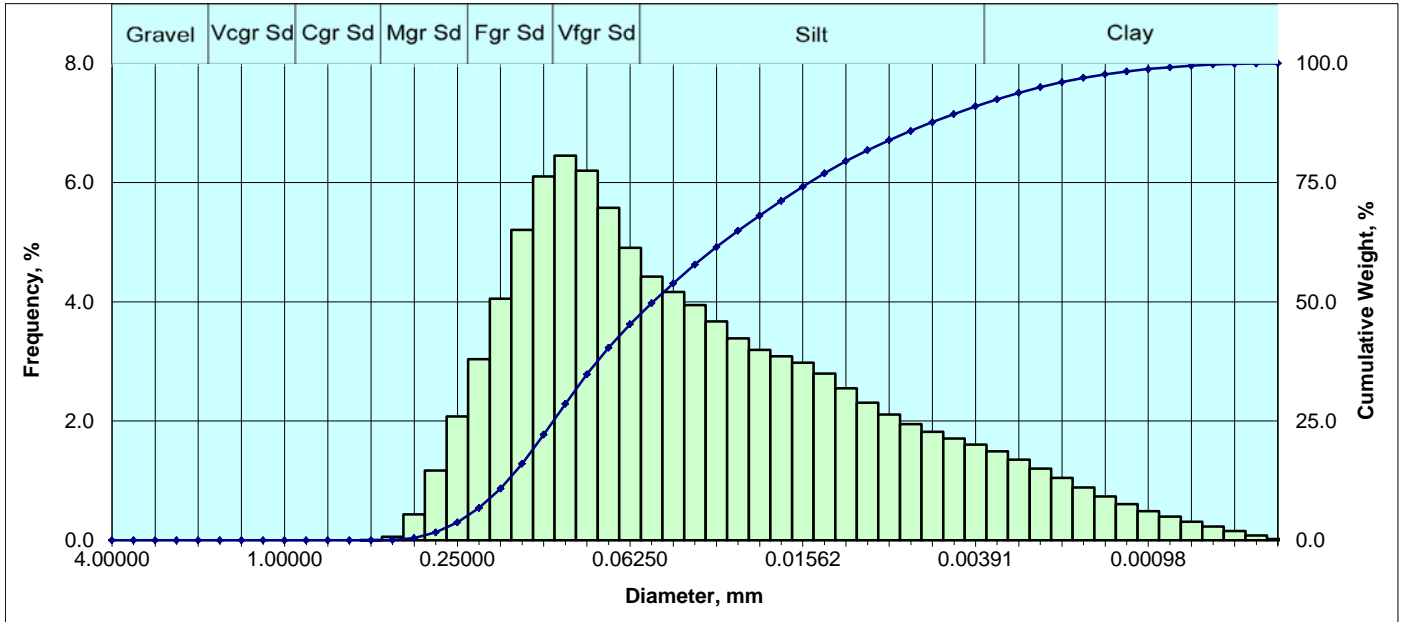
Sieve and Laser Particle Size Analysis



Particle Size Distribution						Sorting Statistics (Folk)					
	Diameter			Weight %		Parameter	Trask	Inman	Folk		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]					[Cum.]	
Granule	5	0.157480	4.00000	-2.00	9.384	9.38	Coarse sand sized				
	6	0.132425	3.36359	-1.75	5.641	15.02	(in)	0.0282	0.0282	0.0282	
	7	0.111355	2.82843	-1.50	5.834	20.86	(mm)	0.7154	0.7154	0.7154	
	8	0.093638	2.37841	-1.25	6.026	26.88	Medium sand sized				
	10	0.078740	2.00000	-1.00	4.816	31.70	(in)	0.0515	0.0110	0.0150	
V Crse Sand	12	0.066212	1.68179	-0.75	1.967	33.67	(mm)	1.3074	0.2793	0.3822	
	14	0.055678	1.41421	-0.50	2.384	36.05	Sorting				
	16	0.046819	1.18921	-0.25	3.035	39.09	V. Poor				
	18	0.039370	1.00000	0.00	3.587	42.67	Skewness				
Coarse Sand	20	0.033106	0.84090	0.25	3.831	46.50	Strongly fine skewed				
	25	0.027839	0.70711	0.50	3.726	50.23	Kurtosis				
	30	0.023410	0.59460	0.75	3.425	53.66	Mesokurtic				
	35	0.019685	0.50000	1.00	3.131	56.79	Component Percentages				
Medium Sand	40	0.016553	0.42045	1.25	2.876	59.66	Gravel	Sand	Silt	Clay	Silt + Clay
	45	0.013919	0.35355	1.50	2.601	62.26	31.70	46.32	15.17	6.81	21.98
	50	0.011705	0.29730	1.75	2.317	64.58	Particle Diameter				
	60	0.009843	0.25000	2.00	2.055	66.64	Percentile [Weight, %]	[in.]	[mm]	[phi]	
Fine Sand	70	0.008277	0.21022	2.25	1.787	68.42	5	0.2591	6.5810	-2.7183	
	80	0.006960	0.17678	2.50	1.531	69.96	10	0.1547	3.9305	-1.9747	
	100	0.005852	0.14865	2.75	1.415	71.37	16	0.1289	3.2741	-1.7111	
	120	0.004921	0.12500	3.00	1.435	72.80	25	0.0992	2.5192	-1.3329	
V. Fine Sand	140	0.004138	0.10511	3.25	1.430	74.23	30	0.0840	2.1336	-1.0933	
	170	0.003480	0.08839	3.50	1.341	75.58	50	0.0282	0.7154	0.4832	
	200	0.002926	0.07433	3.75	1.247	76.82	60	0.0162	0.4118	1.2801	
	230	0.002461	0.06250	4.00	1.195	78.02	75	0.0038	0.0956	3.3874	
Silt	270	0.002069	0.05256	4.25	1.156	79.17	84	0.0009	0.0238	5.3909	
	325	0.001740	0.04419	4.50	1.114	80.29	90	0.0003	0.0076	7.0466	
	400	0.001463	0.03716	4.75	1.081	81.37	95	0.0001	0.0028	8.5053	
	450	0.001230	0.03125	5.00	1.060	82.43	Clay				
	500	0.001035	0.02628	5.25	1.016	83.44	Silt				
	635	0.000870	0.02210	5.50	0.951	84.39	Clay				
		0.000732	0.01858	5.75	0.919	85.31	Silt				
		0.000615	0.01562	6.00	0.944	86.26	Clay				
		0.000517	0.01314	6.25	0.970	87.23	Silt				
		0.000435	0.01105	6.50	0.930	88.16	Clay				
		0.000366	0.00929	6.75	0.864	89.02	Silt				
Clay		0.000308	0.00781	7.00	0.818	89.84	Clay				
		0.000259	0.00657	7.25	0.804	90.64	Silt				
		0.000217	0.00552	7.50	0.816	91.46	Clay				
		0.000183	0.00465	7.75	0.844	92.30	Silt				
		0.000154	0.00391	8.00	0.882	93.19	Clay				
		0.000129	0.00328	8.25	0.902	94.09	Silt				
		0.000109	0.00276	8.50	0.892	94.98	Clay				
		0.000091	0.00232	8.75	0.849	95.83	Silt				
		0.000077	0.00195	9.00	0.778	96.61	Clay				
		0.000065	0.00164	9.25	0.690	97.30	Silt				
		0.000054	0.00138	9.50	0.598	97.89	Clay				
	0.000046	0.00116	9.75	0.512	98.41	Silt					
	0.000038	0.00098	10.00	0.434	98.84	Clay					
	0.000032	0.00082	10.25	0.365	99.21	Silt					
	0.000027	0.00069	10.50	0.297	99.50	Clay					
	0.000023	0.00058	10.75	0.230	99.73	Silt					
	0.000019	0.00049	11.00	0.160	99.89	Clay					
	0.000016	0.00041	11.25	0.086	99.98	Silt					
	0.000015	0.00038	11.50	0.021	100.00	Clay					



Sieve and Laser Particle Size Analysis

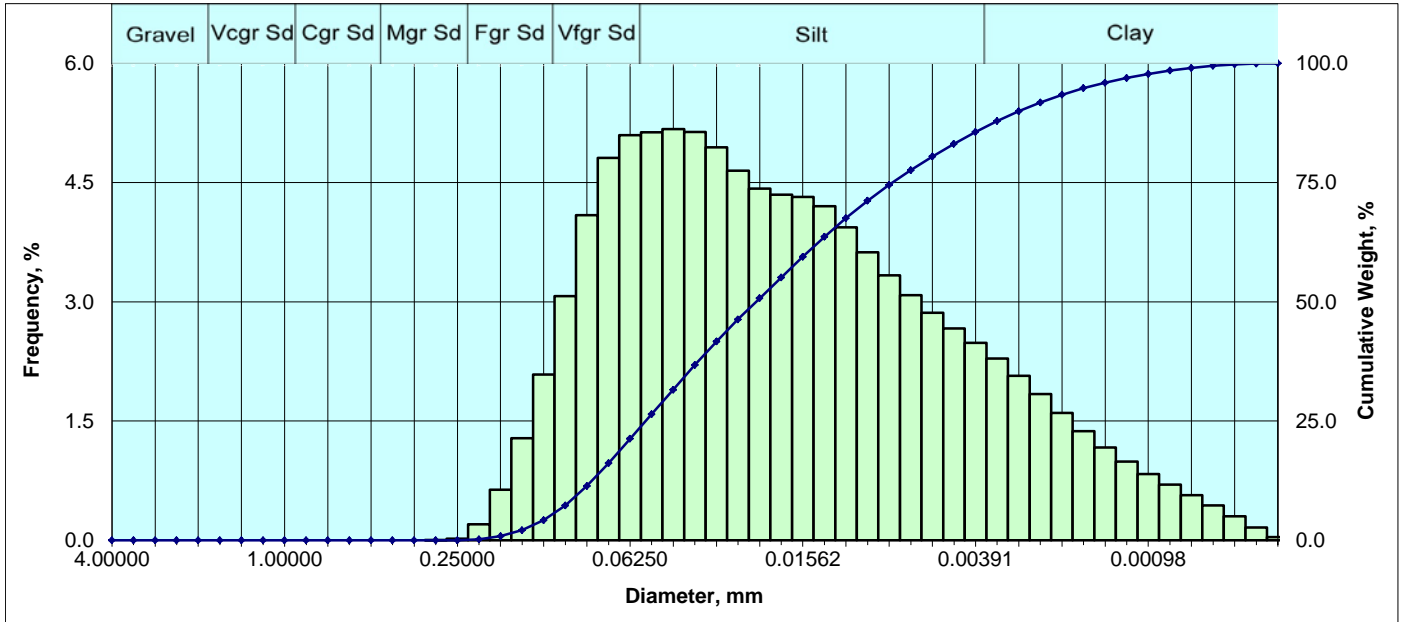


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.001	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.060	0.06
	45	0.013919	0.35355	1.50	0.436	0.50
	50	0.011705	0.29730	1.75	1.171	1.67
	60	0.009843	0.25000	2.00	2.079	3.75
Fine Sand	70	0.008277	0.21022	2.25	3.038	6.78
	80	0.006960	0.17678	2.50	4.053	10.84
	100	0.005852	0.14865	2.75	5.207	16.04
	120	0.004921	0.12500	3.00	6.103	22.15
V. Fine Sand	140	0.004138	0.10511	3.25	6.452	28.60
	170	0.003480	0.08839	3.50	6.202	34.80
	200	0.002926	0.07433	3.75	5.578	40.38
	230	0.002461	0.06250	4.00	4.909	45.29
	Silt	270	0.002069	0.05256	4.25	4.424
325		0.001740	0.04419	4.50	4.166	53.88
400		0.001463	0.03716	4.75	3.948	57.83
450		0.001230	0.03125	5.00	3.672	61.50
500		0.001035	0.02628	5.25	3.389	64.89
635		0.000870	0.02210	5.50	3.192	68.08
		0.000732	0.01858	5.75	3.085	71.16
		0.000615	0.01562	6.00	2.977	74.14
		0.000517	0.01314	6.25	2.796	76.94
		0.000435	0.01105	6.50	2.549	79.49
		0.000366	0.00929	6.75	2.308	81.79
		0.000308	0.00781	7.00	2.108	83.90
		0.000259	0.00657	7.25	1.949	85.85
		0.000217	0.00552	7.50	1.820	87.67
		0.000183	0.00465	7.75	1.709	89.38
	0.000154	0.00391	8.00	1.607	90.99	
Clay		0.000129	0.00328	8.25	1.490	92.48
		0.000109	0.00276	8.50	1.355	93.83
		0.000091	0.00232	8.75	1.205	95.04
		0.000077	0.00195	9.00	1.045	96.08
		0.000065	0.00164	9.25	0.886	96.97
		0.000054	0.00138	9.50	0.738	97.70
		0.000046	0.00116	9.75	0.606	98.31
		0.000038	0.00098	10.00	0.491	98.80
		0.000032	0.00082	10.25	0.396	99.20
		0.000027	0.00069	10.50	0.310	99.51
		0.000023	0.00058	10.75	0.232	99.74
		0.000019	0.00049	11.00	0.157	99.90
		0.000016	0.00041	11.25	0.083	99.98
		0.000015	0.00038	11.50	0.020	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0020	0.0020	0.0020	
(mm)	0.0520	0.0520	0.0520	
Mean	Silt sized			
(in)	0.0026	0.0013	0.0015	
(mm)	0.0655	0.0340	0.0391	
Sorting	V. Poor			
	2.796	2.132	2.073	
Skewness	Strongly fine skewed			
	0.799	0.541	0.318	
Kurtosis	Mesokurtic			
	0.283	0.558	0.918	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	45.29	45.70	9.01	54.71
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0092	0.2336	2.0979	
10	0.0072	0.1837	2.4447	
16	0.0059	0.1489	2.7477	
25	0.0046	0.1162	3.1052	
30	0.0040	0.1013	3.3028	
50	0.0020	0.0520	4.2660	
60	0.0013	0.0337	4.8927	
75	0.0006	0.0149	6.0724	
84	0.0003	0.0077	7.0116	
90	0.0002	0.0044	7.8415	
95	0.0001	0.0023	8.7419	



Sieve and Laser Particle Size Analysis

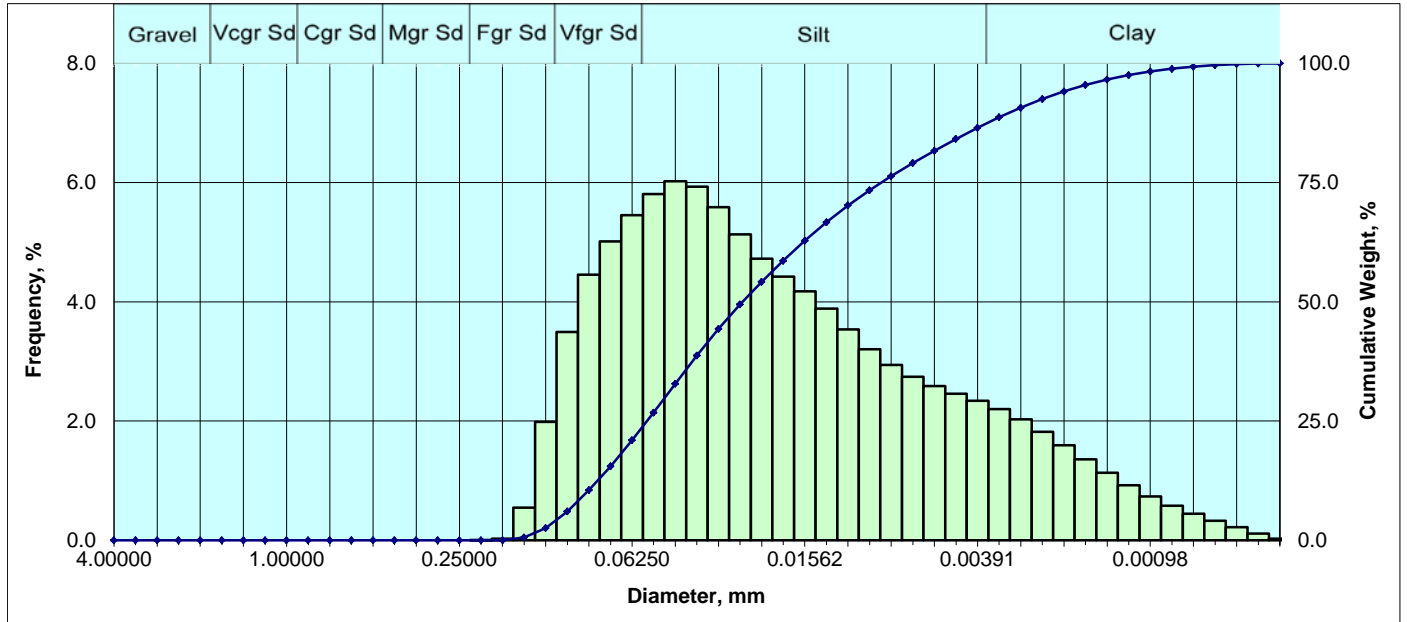


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.022	0.02
Fine Sand	70	0.008277	0.21022	2.25	0.201	0.22
	80	0.006960	0.17678	2.50	0.637	0.86
	100	0.005852	0.14865	2.75	1.285	2.15
	120	0.004921	0.12500	3.00	2.085	4.23
V. Fine Sand	140	0.004138	0.10511	3.25	3.073	7.30
	170	0.003480	0.08839	3.50	4.089	11.39
	200	0.002926	0.07433	3.75	4.811	16.20
	230	0.002461	0.06250	4.00	5.098	21.30
	Silt	270	0.002069	0.05256	4.25	5.131
325		0.001740	0.04419	4.50	5.171	31.60
400		0.001463	0.03716	4.75	5.138	36.74
450		0.001230	0.03125	5.00	4.944	41.68
500		0.001035	0.02628	5.25	4.649	46.33
635		0.000870	0.02210	5.50	4.424	50.76
		0.000732	0.01858	5.75	4.349	55.11
		0.000615	0.01562	6.00	4.321	59.43
		0.000517	0.01314	6.25	4.202	63.63
		0.000435	0.01105	6.50	3.936	67.57
		0.000366	0.00929	6.75	3.625	71.19
		0.000308	0.00781	7.00	3.335	74.53
Clay			0.000259	0.00657	7.25	3.082
		0.000217	0.00552	7.50	2.863	80.47
		0.000183	0.00465	7.75	2.666	83.14
		0.000154	0.00391	8.00	2.484	85.62
		0.000129	0.00328	8.25	2.287	87.91
		0.000109	0.00276	8.50	2.071	89.98
		0.000091	0.00232	8.75	1.839	91.82
		0.000077	0.00195	9.00	1.603	93.42
		0.000065	0.00164	9.25	1.375	94.80
		0.000054	0.00138	9.50	1.169	95.97
		0.000046	0.00116	9.75	0.990	96.96
		0.000038	0.00098	10.00	0.834	97.79
		0.000032	0.00082	10.25	0.699	98.49
	0.000027	0.00069	10.50	0.568	99.06	
	0.000023	0.00058	10.75	0.438	99.49	
	0.000019	0.00049	11.00	0.304	99.80	
	0.000016	0.00041	11.25	0.162	99.96	
	0.000015	0.00038	11.50	0.039	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0009	0.0009	0.0009	
(mm)	0.0228	0.0228	0.0228	
Mean	Silt sized			
(in)	0.0012	0.0007	0.0008	
(mm)	0.0315	0.0181	0.0196	
Sorting	Poor			
	2.694	2.047	1.968	
Skewness	Finely skewed			
	0.900	0.352	0.197	
Kurtosis	Platykurtic			
	0.261	0.522	0.893	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	21.30	64.32	14.38	78.70
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0047	0.1200	3.0587	
10	0.0037	0.0941	3.4100	
16	0.0029	0.0749	3.7386	
25	0.0022	0.0553	4.1758	
30	0.0018	0.0468	4.4178	
50	0.0009	0.0228	5.4539	
60	0.0006	0.0153	6.0315	
75	0.0003	0.0076	7.0356	
84	0.0002	0.0044	7.8318	
90	0.0001	0.0028	8.5023	
95	0.0001	0.0016	9.2904	



Sieve and Laser Particle Size Analysis

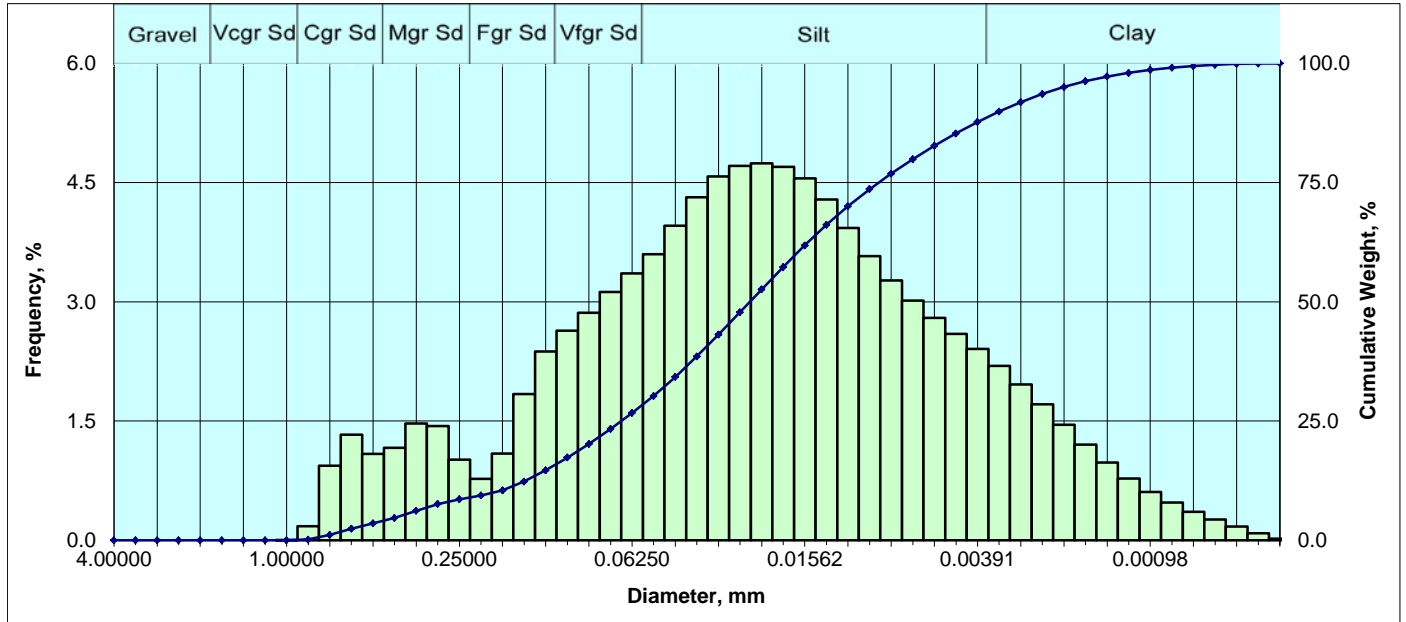


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.030	0.03
	100	0.005852	0.14865	2.75	0.546	0.58
	120	0.004921	0.12500	3.00	1.986	2.56
V. Fine Sand	140	0.004138	0.10511	3.25	3.493	6.06
	170	0.003480	0.08839	3.50	4.454	10.51
	200	0.002926	0.07433	3.75	5.013	15.52
	230	0.002461	0.06250	4.00	5.456	20.98
	Silt	270	0.002069	0.05256	4.25	5.810
325		0.001740	0.04419	4.50	6.025	32.81
400		0.001463	0.03716	4.75	5.932	38.75
450		0.001230	0.03125	5.00	5.590	44.34
500		0.001035	0.02628	5.25	5.133	49.47
635		0.000870	0.02210	5.50	4.721	54.19
		0.000732	0.01858	5.75	4.425	58.61
		0.000615	0.01562	6.00	4.177	62.79
		0.000517	0.01314	6.25	3.887	66.68
		0.000435	0.01105	6.50	3.535	70.21
		0.000366	0.00929	6.75	3.206	73.42
		0.000308	0.00781	7.00	2.942	76.36
		0.000259	0.00657	7.25	2.741	79.10
Clay		0.000217	0.00552	7.50	2.586	81.69
		0.000183	0.00465	7.75	2.456	84.14
		0.000154	0.00391	8.00	2.341	86.48
		0.000129	0.00328	8.25	2.200	88.68
		0.000109	0.00276	8.50	2.027	90.71
		0.000091	0.00232	8.75	1.823	92.53
		0.000077	0.00195	9.00	1.596	94.13
		0.000065	0.00164	9.25	1.360	95.49
		0.000054	0.00138	9.50	1.133	96.62
		0.000046	0.00116	9.75	0.923	97.55
		0.000038	0.00098	10.00	0.738	98.28
		0.000032	0.00082	10.25	0.582	98.87
		0.000027	0.00069	10.50	0.447	99.31
	0.000023	0.00058	10.75	0.328	99.64	
	0.000019	0.00049	11.00	0.218	99.86	
	0.000016	0.00041	11.25	0.114	99.97	
	0.000015	0.00038	11.50	0.028	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0258	0.0258	0.0258	
Mean	Silt sized			
(in)	0.0013	0.0007	0.0008	
(mm)	0.0321	0.0186	0.0207	
Sorting	Poor			
	2.559	1.982	1.898	
Skewness	Finely skewed			
	0.842	0.447	0.268	
Kurtosis	Mesokurtic			
	0.270	0.510	0.905	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	20.98	65.51	13.52	79.02
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0044	0.1111	3.1698	
10	0.0036	0.0903	3.4691	
16	0.0029	0.0733	3.7702	
25	0.0022	0.0556	4.1683	
30	0.0019	0.0481	4.3779	
50	0.0010	0.0258	5.2761	
60	0.0007	0.0176	5.8283	
75	0.0003	0.0085	6.8790	
84	0.0002	0.0047	7.7341	
90	0.0001	0.0029	8.4072	
95	0.0001	0.0018	9.1548	



Sieve and Laser Particle Size Analysis

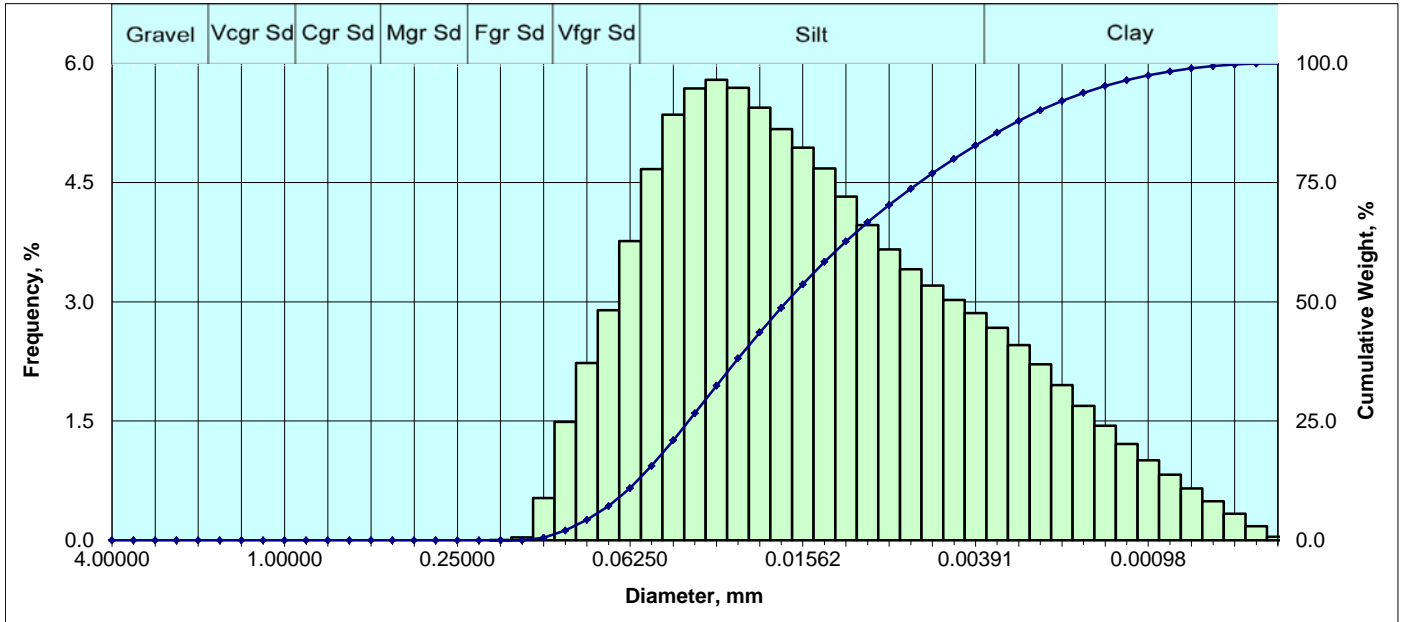


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.003	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.176	0.18
	25	0.027839	0.70711	0.50	0.938	1.12
	30	0.023410	0.59460	0.75	1.330	2.45
	35	0.019685	0.50000	1.00	1.088	3.54
Medium Sand	40	0.016553	0.42045	1.25	1.165	4.70
	45	0.013919	0.35355	1.50	1.471	6.17
	50	0.011705	0.29730	1.75	1.439	7.61
	60	0.009843	0.25000	2.00	1.014	8.62
Fine Sand	70	0.008277	0.21022	2.25	0.774	9.40
	80	0.006960	0.17678	2.50	1.092	10.49
	100	0.005852	0.14865	2.75	1.839	12.33
	120	0.004921	0.12500	3.00	2.376	14.70
V. Fine Sand	140	0.004138	0.10511	3.25	2.637	17.34
	170	0.003480	0.08839	3.50	2.864	20.21
	200	0.002926	0.07433	3.75	3.123	23.33
	230	0.002461	0.06250	4.00	3.357	26.69
	Silt	270	0.002069	0.05256	4.25	3.598
325		0.001740	0.04419	4.50	3.957	34.24
400		0.001463	0.03716	4.75	4.315	38.56
450		0.001230	0.03125	5.00	4.579	43.13
500		0.001035	0.02628	5.25	4.712	47.85
635		0.000870	0.02210	5.50	4.744	52.59
		0.000732	0.01858	5.75	4.700	57.29
		0.000615	0.01562	6.00	4.554	61.84
		0.000517	0.01314	6.25	4.289	66.13
		0.000435	0.01105	6.50	3.929	70.06
		0.000366	0.00929	6.75	3.574	73.64
		0.000308	0.00781	7.00	3.270	76.91
		0.000259	0.00657	7.25	3.016	79.92
	0.000217	0.00552	7.50	2.798	82.72	
	0.000183	0.00465	7.75	2.598	85.32	
	0.000154	0.00391	8.00	2.407	87.73	
Clay		0.000129	0.00328	8.25	2.195	89.92
		0.000109	0.00276	8.50	1.961	91.88
		0.000091	0.00232	8.75	1.710	93.59
		0.000077	0.00195	9.00	1.454	95.05
		0.000065	0.00164	9.25	1.205	96.25
		0.000054	0.00138	9.50	0.978	97.23
		0.000046	0.00116	9.75	0.777	98.01
		0.000038	0.00098	10.00	0.610	98.62
		0.000032	0.00082	10.25	0.474	99.09
		0.000027	0.00069	10.50	0.360	99.45
		0.000023	0.00058	10.75	0.263	99.71
		0.000019	0.00049	11.00	0.175	99.89
		0.000016	0.00041	11.25	0.091	99.98
		0.000015	0.00038	11.50	0.022	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0244	0.0244	0.0244	
Mean	Silt sized			
(in)	0.0015	0.0010	0.0010	
(mm)	0.0386	0.0242	0.0243	
Sorting	V. Poor			
	2.809	2.250	2.291	
Skewness	Near symmetrical			
	0.999	-0.095	-0.026	
Kurtosis	Mesokurtic			
	0.159	0.710	1.058	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	26.69	61.04	12.27	73.31
Percentile [Weight. %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0160	0.4068	1.2976	
10	0.0076	0.1918	2.3825	
16	0.0045	0.1152	3.1174	
25	0.0027	0.0684	3.8691	
30	0.0021	0.0533	4.2287	
50	0.0010	0.0244	5.3582	
60	0.0007	0.0168	5.8935	
75	0.0003	0.0087	6.8491	
84	0.0002	0.0051	7.6177	
90	0.0001	0.0033	8.2593	
95	0.0001	0.0020	8.9914	



Sieve and Laser Particle Size Analysis

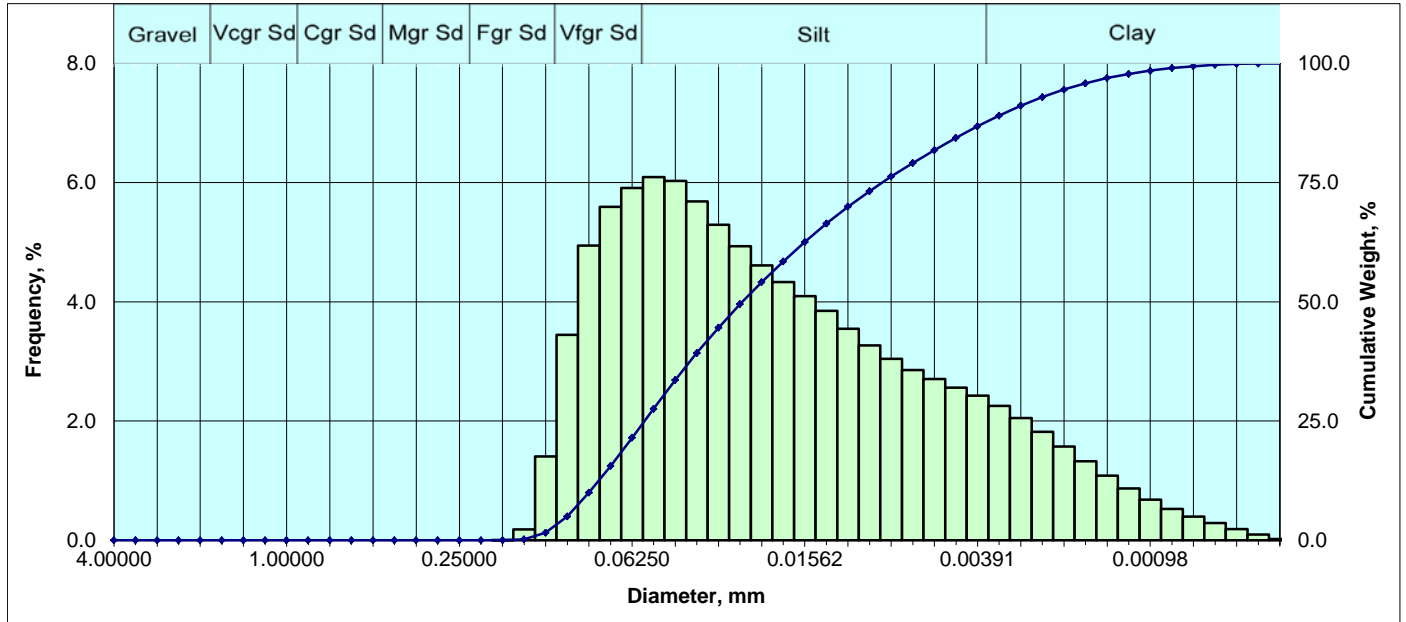


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.037	0.04
	120	0.004921	0.12500	3.00	0.532	0.57
V. Fine Sand	140	0.004138	0.10511	3.25	1.489	2.06
	170	0.003480	0.08839	3.50	2.229	4.29
	200	0.002926	0.07433	3.75	2.894	7.18
	230	0.002461	0.06250	4.00	3.764	10.95
	Silt	270	0.002069	0.05256	4.25	4.668
325		0.001740	0.04419	4.50	5.352	20.97
400		0.001463	0.03716	4.75	5.683	26.65
450		0.001230	0.03125	5.00	5.792	32.44
500		0.001035	0.02628	5.25	5.693	38.13
635		0.000870	0.02210	5.50	5.443	43.58
		0.000732	0.01858	5.75	5.175	48.75
		0.000615	0.01562	6.00	4.941	53.69
		0.000517	0.01314	6.25	4.679	58.37
		0.000435	0.01105	6.50	4.325	62.70
		0.000366	0.00929	6.75	3.967	66.66
		0.000308	0.00781	7.00	3.661	70.33
Clay			0.000259	0.00657	7.25	3.411
		0.000217	0.00552	7.50	3.205	76.94
		0.000183	0.00465	7.75	3.024	79.97
		0.000154	0.00391	8.00	2.860	82.83
		0.000129	0.00328	8.25	2.672	85.50
		0.000109	0.00276	8.50	2.456	87.95
		0.000091	0.00232	8.75	2.213	90.17
		0.000077	0.00195	9.00	1.954	92.12
		0.000065	0.00164	9.25	1.692	93.81
		0.000054	0.00138	9.50	1.443	95.26
		0.000046	0.00116	9.75	1.214	96.47
		0.000038	0.00098	10.00	1.006	97.48
		0.000032	0.00082	10.25	0.824	98.30
	0.000027	0.00069	10.50	0.653	98.95	
	0.000023	0.00058	10.75	0.492	99.45	
	0.000019	0.00049	11.00	0.335	99.78	
	0.000016	0.00041	11.25	0.176	99.96	
	0.000015	0.00038	11.50	0.043	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0178	0.0178	0.0178	
Mean	Silt sized			
(in)	0.0009	0.0005	0.0006	
(mm)	0.0227	0.0137	0.0150	
Sorting	Poor			
	2.523	1.919	1.853	
Skewness	Finely skewed			
	0.871	0.363	0.216	
Kurtosis	Mesokurtic			
	0.262	0.536	0.905	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	10.95	71.88	17.17	89.05
Percentile [Weight, %]				
		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0033	0.0849	3.5577	
10	0.0026	0.0655	3.9330	
16	0.0020	0.0520	4.2667	
25	0.0015	0.0392	4.6729	
30	0.0013	0.0337	4.8893	
50	0.0007	0.0178	5.8091	
60	0.0005	0.0124	6.3390	
75	0.0002	0.0062	7.3435	
84	0.0001	0.0036	8.1046	
90	0.0001	0.0024	8.7296	
95	0.0001	0.0014	9.4523	



Sieve and Laser Particle Size Analysis

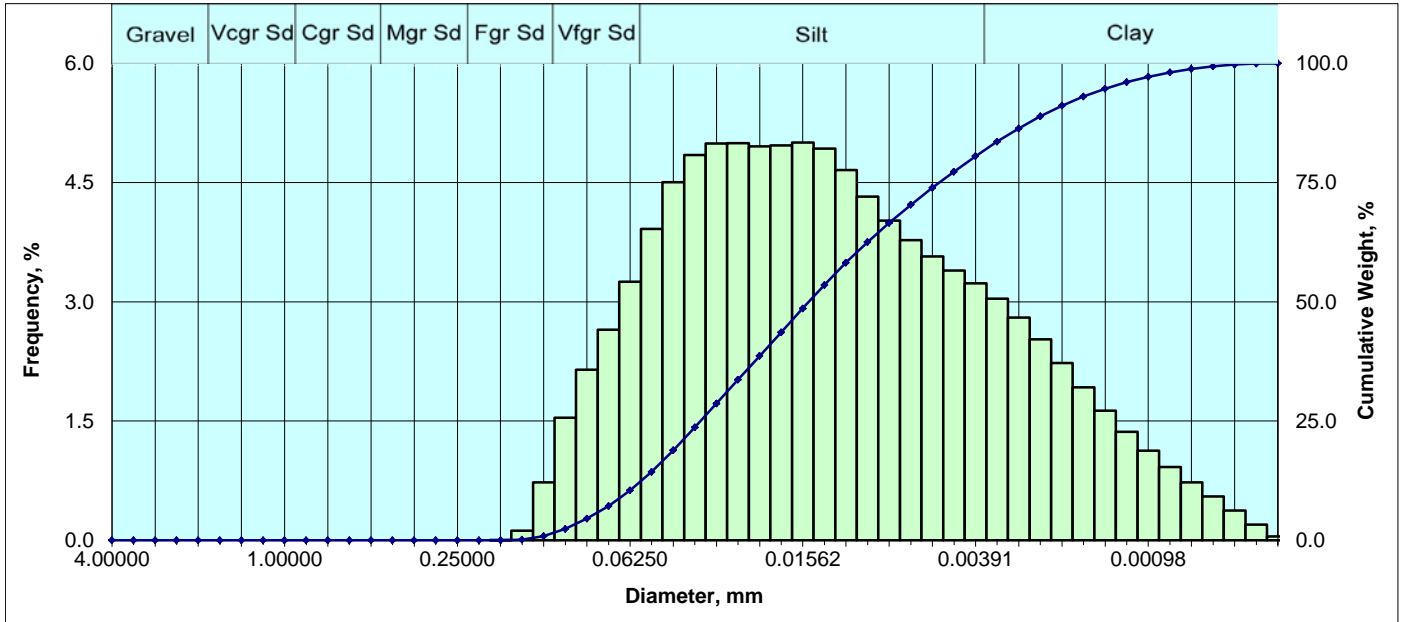


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.002	0.00
	100	0.005852	0.14865	2.75	0.185	0.19
	120	0.004921	0.12500	3.00	1.409	1.60
V. Fine Sand	140	0.004138	0.10511	3.25	3.444	5.04
	170	0.003480	0.08839	3.50	4.945	9.98
	200	0.002926	0.07433	3.75	5.595	15.58
	230	0.002461	0.06250	4.00	5.908	21.49
	Silt	270	0.002069	0.05256	4.25	6.091
325		0.001740	0.04419	4.50	6.028	33.61
400		0.001463	0.03716	4.75	5.684	39.29
450		0.001230	0.03125	5.00	5.291	44.58
500		0.001035	0.02628	5.25	4.934	49.52
635		0.000870	0.02210	5.50	4.610	54.13
		0.000732	0.01858	5.75	4.331	58.46
		0.000615	0.01562	6.00	4.094	62.55
		0.000517	0.01314	6.25	3.847	66.40
		0.000435	0.01105	6.50	3.549	69.95
		0.000366	0.00929	6.75	3.269	73.22
		0.000308	0.00781	7.00	3.041	76.26
		0.000259	0.00657	7.25	2.858	79.12
	0.000217	0.00552	7.50	2.704	81.82	
	0.000183	0.00465	7.75	2.563	84.38	
	0.000154	0.00391	8.00	2.425	86.81	
Clay		0.000129	0.00328	8.25	2.255	89.06
		0.000109	0.00276	8.50	2.052	91.12
		0.000091	0.00232	8.75	1.822	92.94
		0.000077	0.00195	9.00	1.574	94.51
		0.000065	0.00164	9.25	1.324	95.84
		0.000054	0.00138	9.50	1.086	96.92
		0.000046	0.00116	9.75	0.869	97.79
		0.000038	0.00098	10.00	0.683	98.47
		0.000032	0.00082	10.25	0.529	99.00
		0.000027	0.00069	10.50	0.399	99.40
		0.000023	0.00058	10.75	0.288	99.69
		0.000019	0.00049	11.00	0.190	99.88
		0.000016	0.00041	11.25	0.098	99.98
		0.000015	0.00038	11.50	0.024	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0258	0.0258	0.0258	
Mean	Silt sized			
(in)	0.0013	0.0007	0.0008	
(mm)	0.0326	0.0187	0.0209	
Sorting	Poor			
	2.596	1.972	1.871	
Skewness	Finely skewed			
	0.846	0.453	0.270	
Kurtosis	Platykurtic			
	0.283	0.481	0.870	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	21.49	65.32	13.19	78.51
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0041	0.1053	3.2468	
10	0.0035	0.0884	3.5006	
16	0.0029	0.0735	3.7664	
25	0.0022	0.0568	4.1388	
30	0.0019	0.0492	4.3453	
50	0.0010	0.0258	5.2743	
60	0.0007	0.0175	5.8392	
75	0.0003	0.0084	6.8912	
84	0.0002	0.0048	7.7097	
90	0.0001	0.0030	8.3587	
95	0.0001	0.0018	9.0872	



Sieve and Laser Particle Size Analysis

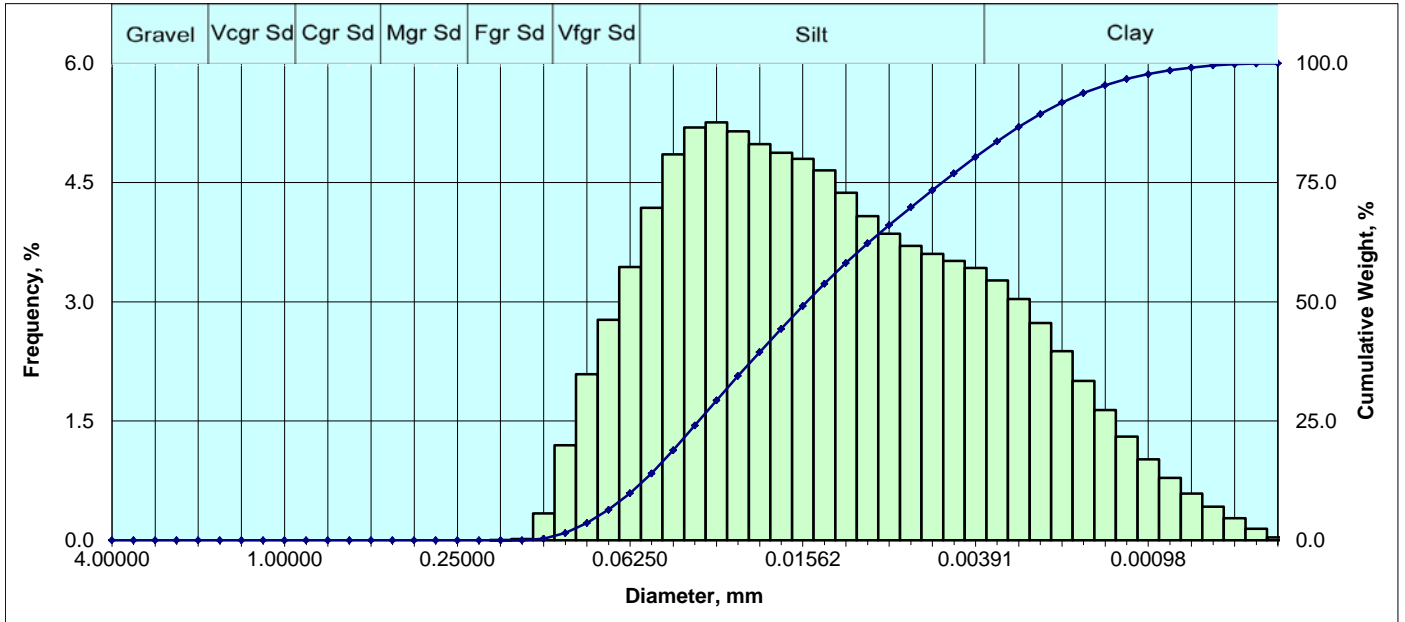


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.002	0.00
	100	0.005852	0.14865	2.75	0.121	0.12
	120	0.004921	0.12500	3.00	0.729	0.85
V. Fine Sand	140	0.004138	0.10511	3.25	1.540	2.39
	170	0.003480	0.08839	3.50	2.147	4.54
	200	0.002926	0.07433	3.75	2.649	7.19
	230	0.002461	0.06250	4.00	3.254	10.44
	Silt	270	0.002069	0.05256	4.25	3.916
325		0.001740	0.04419	4.50	4.504	18.86
400		0.001463	0.03716	4.75	4.845	23.71
450		0.001230	0.03125	5.00	4.992	28.70
500		0.001035	0.02628	5.25	4.997	33.70
635		0.000870	0.02210	5.50	4.957	38.66
		0.000732	0.01858	5.75	4.970	43.63
		0.000615	0.01562	6.00	5.003	48.63
		0.000517	0.01314	6.25	4.929	53.56
		0.000435	0.01105	6.50	4.658	58.22
		0.000366	0.00929	6.75	4.325	62.54
		0.000308	0.00781	7.00	4.024	66.56
Clay			0.000259	0.00657	7.25	3.774
		0.000217	0.00552	7.50	3.570	73.91
		0.000183	0.00465	7.75	3.393	77.30
		0.000154	0.00391	8.00	3.232	80.53
		0.000129	0.00328	8.25	3.038	83.57
		0.000109	0.00276	8.50	2.803	86.37
		0.000091	0.00232	8.75	2.529	88.90
		0.000077	0.00195	9.00	2.230	91.13
		0.000065	0.00164	9.25	1.923	93.06
		0.000054	0.00138	9.50	1.631	94.69
		0.000046	0.00116	9.75	1.365	96.05
		0.000038	0.00098	10.00	1.127	97.18
		0.000032	0.00082	10.25	0.921	98.10
	0.000027	0.00069	10.50	0.730	98.83	
	0.000023	0.00058	10.75	0.550	99.38	
	0.000019	0.00049	11.00	0.375	99.75	
	0.000016	0.00041	11.25	0.198	99.95	
	0.000015	0.00038	11.50	0.048	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0149	0.0149	0.0149	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0005	
(mm)	0.0204	0.0126	0.0133	
Sorting	Poor			
	2.607	1.975	1.898	
Skewness	Finely skewed			
	0.915	0.244	0.142	
Kurtosis	Platykurtic			
	0.245	0.523	0.891	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	10.44	70.09	19.47	89.56
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0034	0.0859	3.5404	
10	0.0025	0.0641	3.9633	
16	0.0019	0.0495	4.3361	
25	0.0014	0.0356	4.8106	
30	0.0012	0.0300	5.0609	
50	0.0006	0.0149	6.0653	
60	0.0004	0.0103	6.5979	
75	0.0002	0.0052	7.5758	
84	0.0001	0.0032	8.2856	
90	0.0001	0.0021	8.8677	
95	0.0001	0.0013	9.5538	



Sieve and Laser Particle Size Analysis

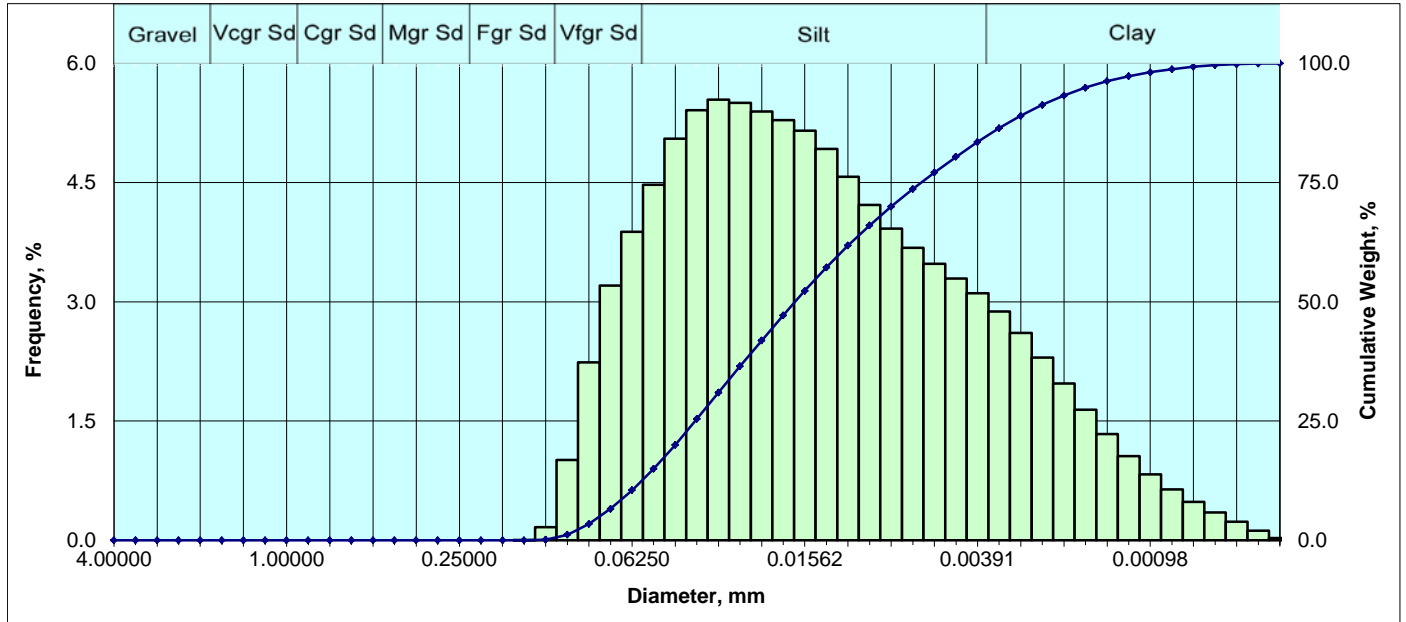


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.018	0.02
	120	0.004921	0.12500	3.00	0.338	0.36
V. Fine Sand	140	0.004138	0.10511	3.25	1.197	1.55
	170	0.003480	0.08839	3.50	2.091	3.64
	200	0.002926	0.07433	3.75	2.774	6.42
	230	0.002461	0.06250	4.00	3.439	9.86
	Silt	270	0.002069	0.05256	4.25	4.181
325		0.001740	0.04419	4.50	4.857	18.90
400		0.001463	0.03716	4.75	5.194	24.09
450		0.001230	0.03125	5.00	5.256	29.35
500		0.001035	0.02628	5.25	5.144	34.49
635		0.000870	0.02210	5.50	4.982	39.47
		0.000732	0.01858	5.75	4.875	44.35
		0.000615	0.01562	6.00	4.800	49.15
		0.000517	0.01314	6.25	4.653	53.80
		0.000435	0.01105	6.50	4.371	58.17
		0.000366	0.00929	6.75	4.079	62.25
Clay		0.000308	0.00781	7.00	3.856	66.11
		0.000259	0.00657	7.25	3.705	69.81
		0.000217	0.00552	7.50	3.601	73.41
		0.000183	0.00465	7.75	3.515	76.93
		0.000154	0.00391	8.00	3.427	80.35
		0.000129	0.00328	8.25	3.270	83.62
		0.000109	0.00276	8.50	3.037	86.66
		0.000091	0.00232	8.75	2.734	89.40
		0.000077	0.00195	9.00	2.380	91.78
		0.000065	0.00164	9.25	2.005	93.78
		0.000054	0.00138	9.50	1.641	95.42
	0.000046	0.00116	9.75	1.306	96.73	
	0.000038	0.00098	10.00	1.018	97.75	
	0.000032	0.00082	10.25	0.784	98.53	
	0.000027	0.00069	10.50	0.588	99.12	
	0.000023	0.00058	10.75	0.424	99.54	
	0.000019	0.00049	11.00	0.279	99.82	
	0.000016	0.00041	11.25	0.144	99.96	
	0.000015	0.00038	11.50	0.035	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0152	0.0152	0.0152	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0005	
(mm)	0.0206	0.0126	0.0134	
Sorting	Poor			
	2.655	1.966	1.864	
Skewness	Finely skewed			
	0.897	0.245	0.151	
Kurtosis	Platykurtic			
	0.259	0.479	0.846	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	9.86	70.50	19.65	90.14
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0032	0.0815	3.6168	
10	0.0024	0.0622	4.0079	
16	0.0019	0.0492	4.3458	
25	0.0014	0.0361	4.7903	
30	0.0012	0.0306	5.0295	
50	0.0006	0.0152	6.0427	
60	0.0004	0.0103	6.6068	
75	0.0002	0.0051	7.6076	
84	0.0001	0.0032	8.2786	
90	0.0001	0.0022	8.8095	
95	0.0001	0.0014	9.4315	



Sieve and Laser Particle Size Analysis

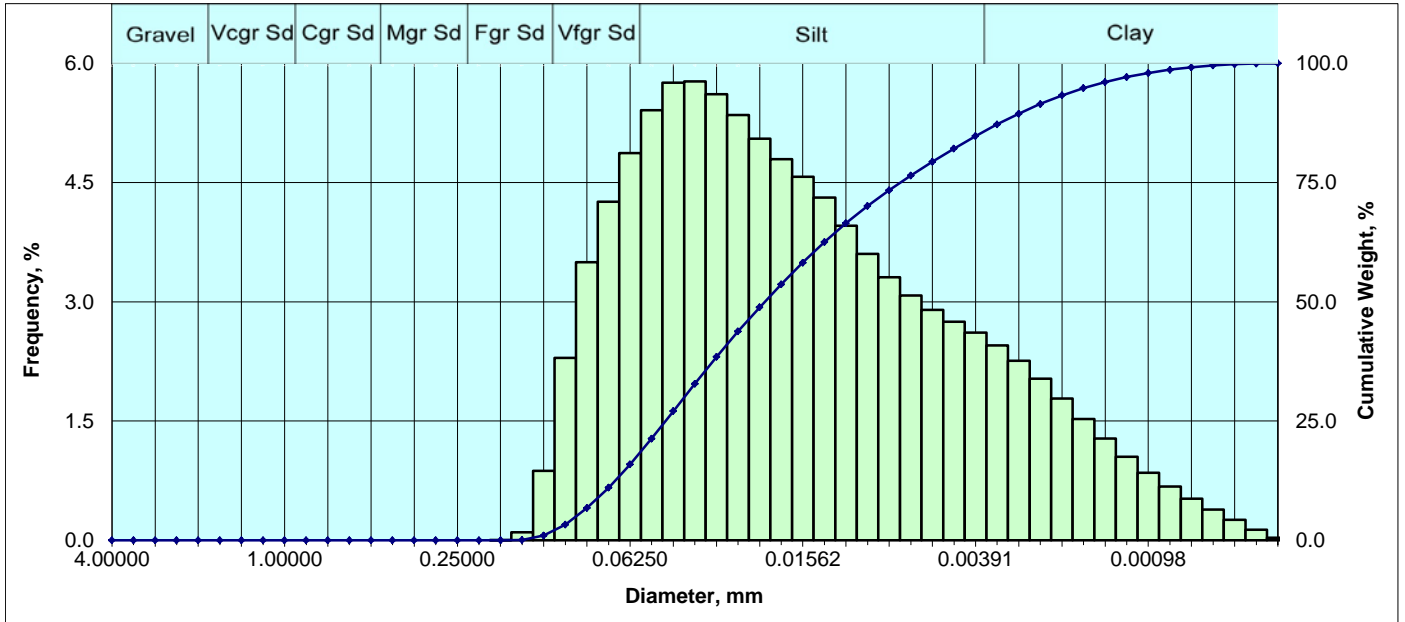


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.002	0.00
	120	0.004921	0.12500	3.00	0.164	0.17
V. Fine Sand	140	0.004138	0.10511	3.25	1.012	1.18
	170	0.003480	0.08839	3.50	2.239	3.42
	200	0.002926	0.07433	3.75	3.205	6.62
	230	0.002461	0.06250	4.00	3.882	10.50
	Silt	270	0.002069	0.05256	4.25	4.473
325		0.001740	0.04419	4.50	5.052	20.03
400		0.001463	0.03716	4.75	5.410	25.44
450		0.001230	0.03125	5.00	5.543	30.98
500		0.001035	0.02628	5.25	5.504	36.49
635		0.000870	0.02210	5.50	5.394	41.88
		0.000732	0.01858	5.75	5.286	47.17
		0.000615	0.01562	6.00	5.152	52.32
		0.000517	0.01314	6.25	4.923	57.24
		0.000435	0.01105	6.50	4.574	61.81
		0.000366	0.00929	6.75	4.220	66.04
		0.000308	0.00781	7.00	3.923	69.96
		0.000259	0.00657	7.25	3.681	73.64
	0.000217	0.00552	7.50	3.479	77.12	
	0.000183	0.00465	7.75	3.292	80.41	
	0.000154	0.00391	8.00	3.107	83.52	
Clay		0.000129	0.00328	8.25	2.880	86.40
		0.000109	0.00276	8.50	2.609	89.01
		0.000091	0.00232	8.75	2.300	91.31
		0.000077	0.00195	9.00	1.971	93.28
		0.000065	0.00164	9.25	1.642	94.92
		0.000054	0.00138	9.50	1.335	96.26
		0.000046	0.00116	9.75	1.060	97.32
		0.000038	0.00098	10.00	0.828	98.14
		0.000032	0.00082	10.25	0.640	98.78
		0.000027	0.00069	10.50	0.484	99.27
		0.000023	0.00058	10.75	0.351	99.62
		0.000019	0.00049	11.00	0.232	99.85
		0.000016	0.00041	11.25	0.120	99.97
	0.000015	0.00038	11.50	0.029	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0170	0.0170	0.0170	
Mean	Silt sized			
(in)	0.0009	0.0005	0.0006	
(mm)	0.0219	0.0139	0.0149	
Sorting	Poor			
	2.475	1.871	1.791	
Skewness	Finely skewed			
	0.899	0.299	0.175	
Kurtosis	Platykurtic			
	0.257	0.509	0.885	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	10.50	73.01	16.48	89.50
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0032	0.0814	3.6180	
10	0.0025	0.0640	3.9650	
16	0.0020	0.0509	4.2972	
25	0.0015	0.0377	4.7280	
30	0.0013	0.0323	4.9524	
50	0.0007	0.0170	5.8821	
60	0.0005	0.0119	6.3956	
75	0.0002	0.0062	7.3427	
84	0.0001	0.0038	8.0390	
90	0.0001	0.0026	8.6027	
95	0.0001	0.0016	9.2637	



Sieve and Laser Particle Size Analysis

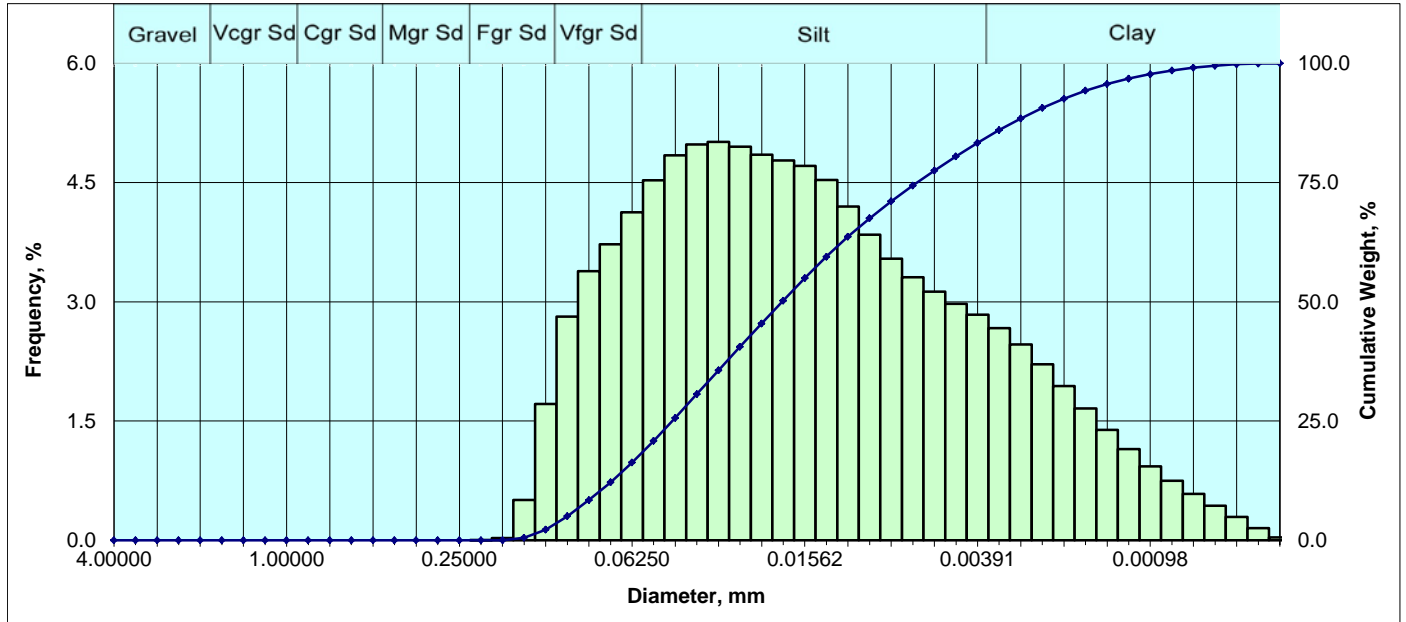


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.001	0.00
	100	0.005852	0.14865	2.75	0.102	0.10
	120	0.004921	0.12500	3.00	0.876	0.98
V. Fine Sand	140	0.004138	0.10511	3.25	2.294	3.27
	170	0.003480	0.08839	3.50	3.499	6.77
	200	0.002926	0.07433	3.75	4.261	11.03
	230	0.002461	0.06250	4.00	4.872	15.90
	Silt	270	0.002069	0.05256	4.25	5.412
325		0.001740	0.04419	4.50	5.756	27.07
400		0.001463	0.03716	4.75	5.774	32.85
450		0.001230	0.03125	5.00	5.613	38.46
500		0.001035	0.02628	5.25	5.352	43.81
635		0.000870	0.02210	5.50	5.053	48.86
		0.000732	0.01858	5.75	4.793	53.66
		0.000615	0.01562	6.00	4.573	58.23
		0.000517	0.01314	6.25	4.311	62.54
		0.000435	0.01105	6.50	3.956	66.50
		0.000366	0.00929	6.75	3.603	70.10
		0.000308	0.00781	7.00	3.310	73.41
		0.000259	0.00657	7.25	3.080	76.49
		0.000217	0.00552	7.50	2.900	79.39
Clay		0.000183	0.00465	7.75	2.748	82.14
		0.000154	0.00391	8.00	2.613	84.75
		0.000129	0.00328	8.25	2.453	87.21
		0.000109	0.00276	8.50	2.260	89.46
		0.000091	0.00232	8.75	2.033	91.50
		0.000077	0.00195	9.00	1.785	93.28
		0.000065	0.00164	9.25	1.527	94.81
		0.000054	0.00138	9.50	1.279	96.09
		0.000046	0.00116	9.75	1.051	97.14
		0.000038	0.00098	10.00	0.848	97.99
		0.000032	0.00082	10.25	0.676	98.66
		0.000027	0.00069	10.50	0.523	99.19
		0.000023	0.00058	10.75	0.386	99.57
		0.000019	0.00049	11.00	0.259	99.83
	0.000016	0.00041	11.25	0.135	99.97	
	0.000015	0.00038	11.50	0.033	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0213	0.0213	0.0213	
Mean	Silt sized			
(in)	0.0011	0.0006	0.0007	
(mm)	0.0272	0.0160	0.0176	
Sorting	Poor			
	2.566	1.960	1.876	
Skewness	Finely skewed			
	0.865	0.393	0.234	
Kurtosis	Platykurtic			
	0.267	0.510	0.892	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	15.90	68.85	15.25	84.10
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0038	0.0969	3.3680	
10	0.0031	0.0777	3.6853	
16	0.0025	0.0623	4.0041	
25	0.0019	0.0472	4.4049	
30	0.0016	0.0406	4.6214	
50	0.0008	0.0213	5.5554	
60	0.0006	0.0146	6.0974	
75	0.0003	0.0072	7.1236	
84	0.0002	0.0041	7.9235	
90	0.0001	0.0026	8.5617	
95	0.0001	0.0016	9.2845	



Sieve and Laser Particle Size Analysis

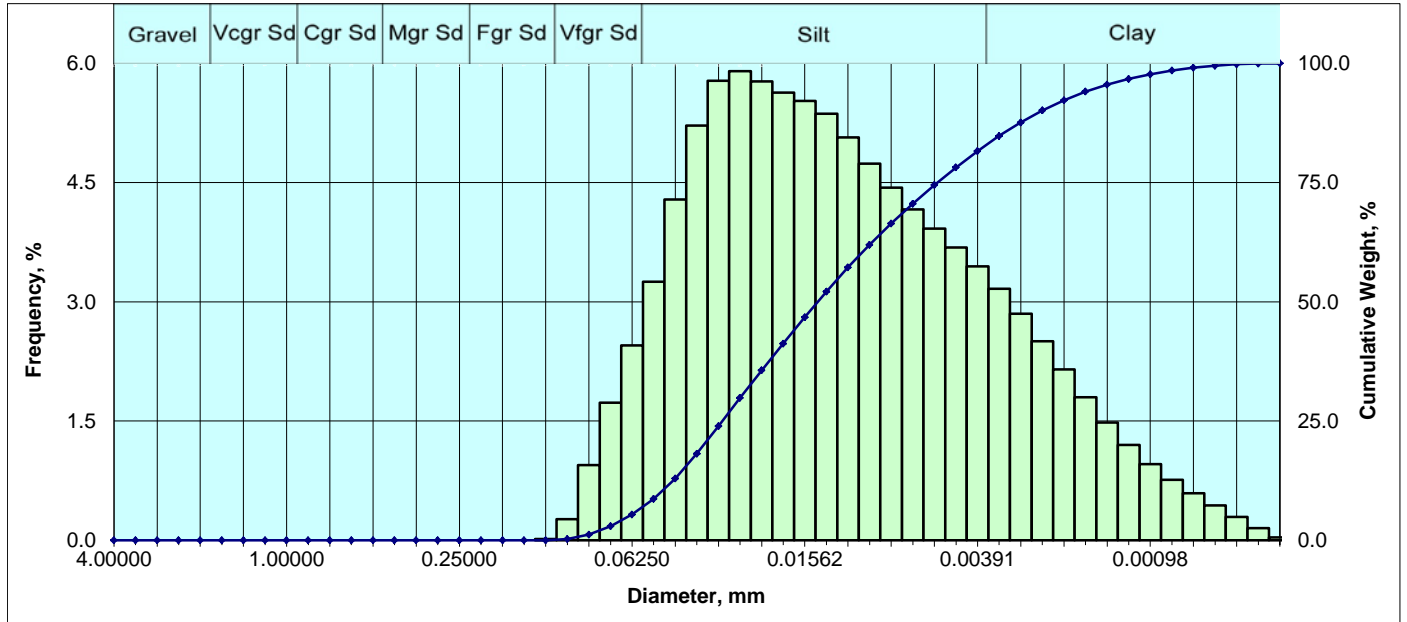


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.030	0.03
	100	0.005852	0.14865	2.75	0.507	0.54
	120	0.004921	0.12500	3.00	1.716	2.25
V. Fine Sand	140	0.004138	0.10511	3.25	2.815	5.07
	170	0.003480	0.08839	3.50	3.385	8.45
	200	0.002926	0.07433	3.75	3.724	12.18
	230	0.002461	0.06250	4.00	4.125	16.30
	Silt	270	0.002069	0.05256	4.25	4.529
325		0.001740	0.04419	4.50	4.841	25.67
400		0.001463	0.03716	4.75	4.980	30.65
450		0.001230	0.03125	5.00	5.012	35.66
500		0.001035	0.02628	5.25	4.952	40.62
635		0.000870	0.02210	5.50	4.849	45.46
		0.000732	0.01858	5.75	4.779	50.24
		0.000615	0.01562	6.00	4.709	54.95
		0.000517	0.01314	6.25	4.533	59.49
		0.000435	0.01105	6.50	4.200	63.69
		0.000366	0.00929	6.75	3.844	67.53
Clay		0.000308	0.00781	7.00	3.545	71.08
		0.000259	0.00657	7.25	3.310	74.39
		0.000217	0.00552	7.50	3.128	77.51
		0.000183	0.00465	7.75	2.976	80.49
		0.000154	0.00391	8.00	2.840	83.33
		0.000129	0.00328	8.25	2.671	86.00
		0.000109	0.00276	8.50	2.462	88.46
		0.000091	0.00232	8.75	2.214	90.68
		0.000077	0.00195	9.00	1.941	92.62
		0.000065	0.00164	9.25	1.660	94.28
		0.000054	0.00138	9.50	1.391	95.67
		0.000046	0.00116	9.75	1.146	96.81
		0.000038	0.00098	10.00	0.931	97.75
	0.000032	0.00082	10.25	0.748	98.49	
	0.000027	0.00069	10.50	0.585	99.08	
	0.000023	0.00058	10.75	0.436	99.51	
	0.000019	0.00049	11.00	0.295	99.81	
	0.000016	0.00041	11.25	0.154	99.96	
	0.000015	0.00038	11.50	0.038	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0188	0.0188	0.0188	
Mean	Silt sized			
(in)	0.0010	0.0006	0.0006	
(mm)	0.0259	0.0154	0.0165	
Sorting	Poor			
	2.670	2.039	1.949	
Skewness	Finely skewed			
	0.906	0.281	0.163	
Kurtosis	Platykurtic			
	0.243	0.503	0.887	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	16.30	67.03	16.67	83.70
Percentile [Weight, %]				
		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0042	0.1056	3.2435	
10	0.0032	0.0825	3.5987	
16	0.0025	0.0634	3.9802	
25	0.0018	0.0454	4.4626	
30	0.0015	0.0381	4.7147	
50	0.0007	0.0188	5.7361	
60	0.0005	0.0129	6.2784	
75	0.0003	0.0064	7.2958	
84	0.0001	0.0038	8.0587	
90	0.0001	0.0025	8.6688	
95	0.0001	0.0015	9.3744	



Sieve and Laser Particle Size Analysis

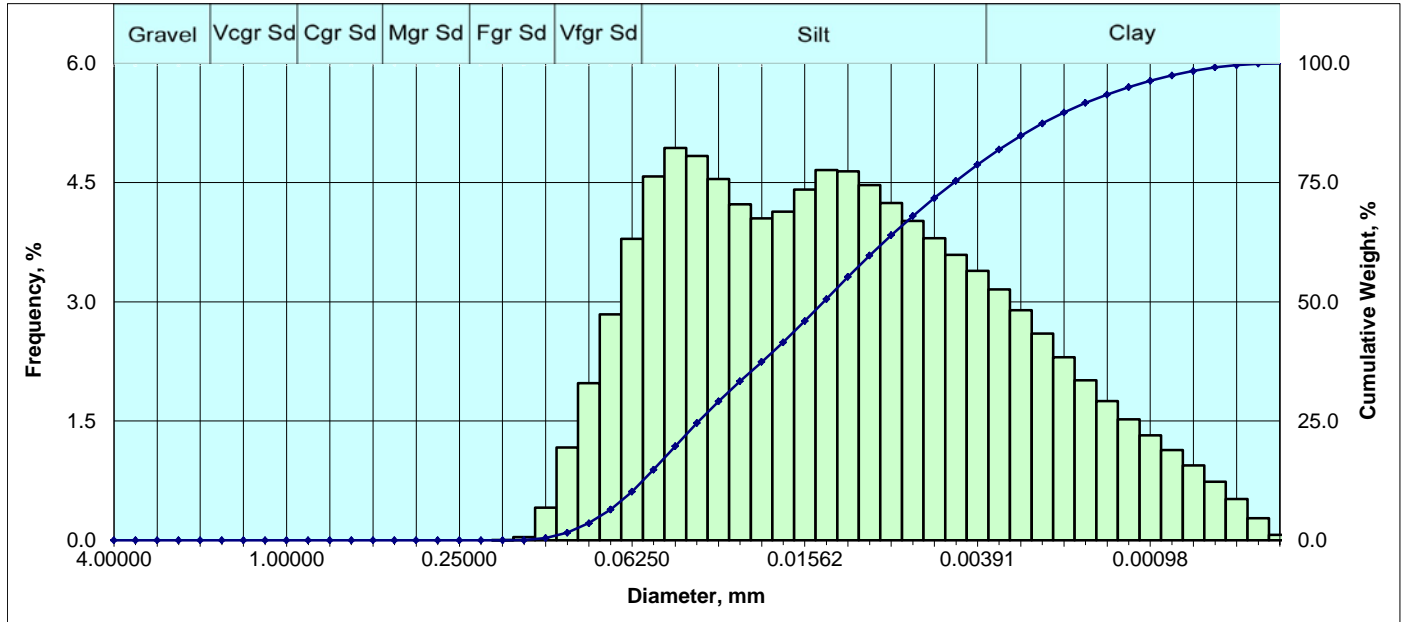


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.015	0.02
V. Fine Sand	140	0.004138	0.10511	3.25	0.265	0.28
	170	0.003480	0.08839	3.50	0.947	1.23
	200	0.002926	0.07433	3.75	1.732	2.96
	230	0.002461	0.06250	4.00	2.453	5.41
	Silt	270	0.002069	0.05256	4.25	3.254
325		0.001740	0.04419	4.50	4.289	12.96
400		0.001463	0.03716	4.75	5.219	18.18
450		0.001230	0.03125	5.00	5.780	23.96
500		0.001035	0.02628	5.25	5.902	29.86
635		0.000870	0.02210	5.50	5.772	35.63
		0.000732	0.01858	5.75	5.632	41.26
		0.000615	0.01562	6.00	5.529	46.79
		0.000517	0.01314	6.25	5.368	52.16
		0.000435	0.01105	6.50	5.070	57.23
		0.000366	0.00929	6.75	4.739	61.97
		0.000308	0.00781	7.00	4.434	66.40
		0.000259	0.00657	7.25	4.164	70.57
	0.000217	0.00552	7.50	3.919	74.49	
	0.000183	0.00465	7.75	3.682	78.17	
	0.000154	0.00391	8.00	3.444	81.61	
Clay		0.000129	0.00328	8.25	3.166	84.78
		0.000109	0.00276	8.50	2.850	87.63
		0.000091	0.00232	8.75	2.504	90.13
		0.000077	0.00195	9.00	2.148	92.28
		0.000065	0.00164	9.25	1.800	94.08
		0.000054	0.00138	9.50	1.481	95.56
		0.000046	0.00116	9.75	1.199	96.76
		0.000038	0.00098	10.00	0.960	97.72
		0.000032	0.00082	10.25	0.763	98.48
		0.000027	0.00069	10.50	0.592	99.07
		0.000023	0.00058	10.75	0.439	99.51
		0.000019	0.00049	11.00	0.296	99.81
		0.000016	0.00041	11.25	0.155	99.96
		0.000015	0.00038	11.50	0.038	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0006	0.0006	0.0006
(mm)	0.0141	0.0141	0.0141
Mean	Silt sized		
(in)	0.0007	0.0005	0.0005
(mm)	0.0179	0.0117	0.0125
Sorting	Poor		
	2.371	1.772	1.711
Skewness	Finely skewed		
	0.906	0.301	0.174
Kurtosis	Platykurtic		
	0.262	0.537	0.896
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	5.41	76.20	18.39
			Silt + Clay
			94.59
Percentile [Weight. %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0025	0.0645	3.9548
10	0.0020	0.0500	4.3232
16	0.0016	0.0401	4.6405
25	0.0012	0.0304	5.0412
30	0.0010	0.0262	5.2557
50	0.0006	0.0141	6.1442
60	0.0004	0.0100	6.6409
75	0.0002	0.0054	7.5325
84	0.0001	0.0034	8.1845
90	0.0001	0.0023	8.7358
95	0.0001	0.0015	9.4004



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.041	0.04
	120	0.004921	0.12500	3.00	0.412	0.45
V. Fine Sand	140	0.004138	0.10511	3.25	1.166	1.62
	170	0.003480	0.08839	3.50	1.978	3.60
	200	0.002926	0.07433	3.75	2.841	6.44
	230	0.002461	0.06250	4.00	3.794	10.23
	Silt	270	0.002069	0.05256	4.25	4.576
325		0.001740	0.04419	4.50	4.935	19.74
400		0.001463	0.03716	4.75	4.837	24.58
450		0.001230	0.03125	5.00	4.544	29.12
500		0.001035	0.02628	5.25	4.229	33.35
635		0.000870	0.02210	5.50	4.050	37.40
		0.000732	0.01858	5.75	4.133	41.54
		0.000615	0.01562	6.00	4.412	45.95
		0.000517	0.01314	6.25	4.660	50.61
		0.000435	0.01105	6.50	4.644	55.25
		0.000366	0.00929	6.75	4.467	59.72
		0.000308	0.00781	7.00	4.244	63.96
Clay		0.000259	0.00657	7.25	4.016	67.98
		0.000217	0.00552	7.50	3.799	71.78
		0.000183	0.00465	7.75	3.591	75.37
		0.000154	0.00391	8.00	3.390	78.76
		0.000129	0.00328	8.25	3.158	81.92
		0.000109	0.00276	8.50	2.894	84.81
		0.000091	0.00232	8.75	2.603	87.41
		0.000077	0.00195	9.00	2.303	89.72
		0.000065	0.00164	9.25	2.012	91.73
		0.000054	0.00138	9.50	1.750	93.48
		0.000046	0.00116	9.75	1.524	95.00
		0.000038	0.00098	10.00	1.320	96.32
		0.000032	0.00082	10.25	1.135	97.46
		0.000027	0.00069	10.50	0.942	98.40
		0.000023	0.00058	10.75	0.738	99.14
	0.000019	0.00049	11.00	0.518	99.65	
	0.000016	0.00041	11.25	0.277	99.93	
	0.000015	0.00038	11.50	0.068	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0135	0.0135	0.0135	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0005	
(mm)	0.0207	0.0121	0.0126	
Sorting	Poor			
	2.781	2.060	1.959	
Skewness	Finely skewed			
	0.978	0.228	0.113	
Kurtosis	Platykurtic			
	0.260	0.489	0.852	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	10.23	68.53	21.24	89.77
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0032	0.0814	3.6181	
10	0.0025	0.0632	3.9834	
16	0.0020	0.0505	4.3065	
25	0.0014	0.0366	4.7714	
30	0.0012	0.0302	5.0484	
50	0.0005	0.0135	6.2149	
60	0.0004	0.0092	6.7654	
75	0.0002	0.0047	7.7223	
84	0.0001	0.0029	8.4256	
90	0.0001	0.0019	9.0328	
95	0.0000	0.0012	9.7497	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 000 6943-038 (Task M22D)

CL File Number: 1800558

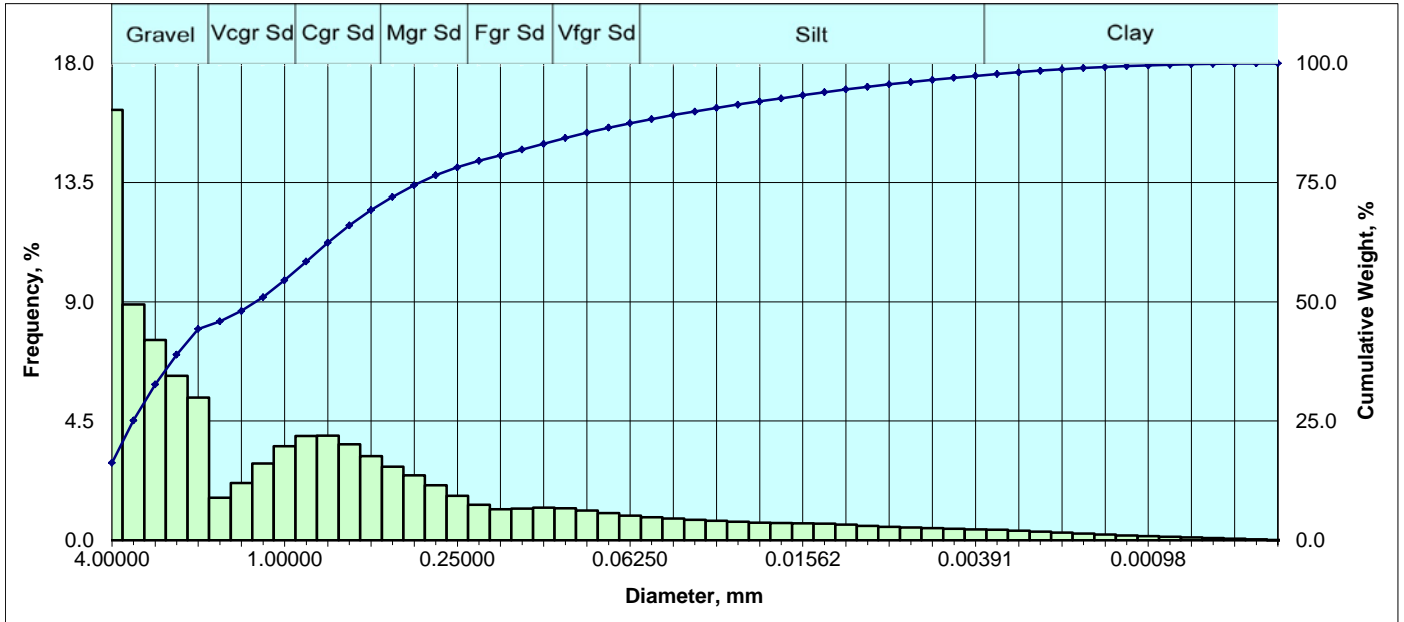
APPENDIX 3

Particle Distribution Plots

Boring TBG2



Sieve and Laser Particle Size Analysis

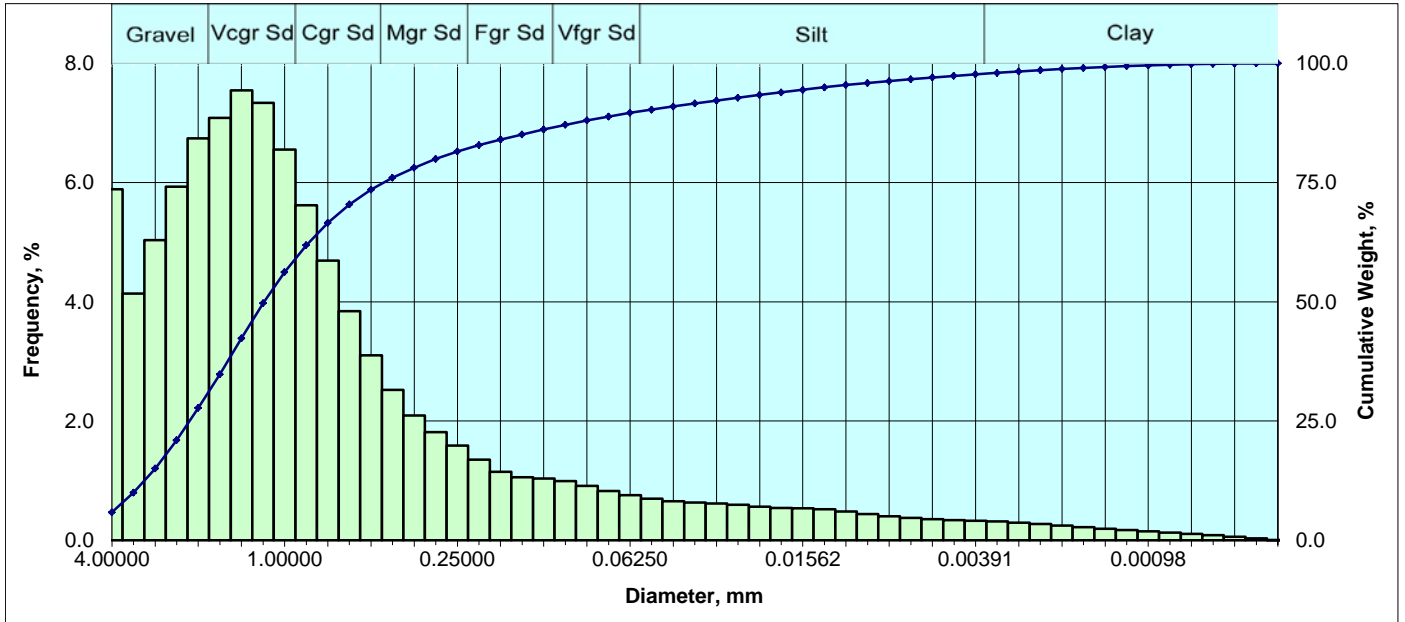


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	16.243	16.24
	6	0.132425	3.36359	-1.75	8.907	25.15
	7	0.111355	2.82843	-1.50	7.560	32.71
	8	0.093638	2.37841	-1.25	6.213	38.92
V Crse Sand	10	0.078740	2.00000	-1.00	5.389	44.31
	12	0.066212	1.68179	-0.75	1.605	45.92
	14	0.055678	1.41421	-0.50	2.167	48.08
	16	0.046819	1.18921	-0.25	2.904	50.99
Coarse Sand	18	0.039370	1.00000	0.00	3.549	54.54
	20	0.033106	0.84090	0.25	3.937	58.47
	25	0.027839	0.70711	0.50	3.949	62.42
	30	0.023410	0.59460	0.75	3.627	66.05
Medium Sand	35	0.019685	0.50000	1.00	3.174	69.22
	40	0.016553	0.42045	1.25	2.779	72.00
	45	0.013919	0.35355	1.50	2.447	74.45
	50	0.011705	0.29730	1.75	2.084	76.53
Fine Sand	60	0.009843	0.25000	2.00	1.677	78.21
	70	0.008277	0.21022	2.25	1.336	79.54
	80	0.006960	0.17678	2.50	1.175	80.72
	100	0.005852	0.14865	2.75	1.191	81.91
V. Fine Sand	120	0.004921	0.12500	3.00	1.234	83.14
	140	0.004138	0.10511	3.25	1.213	84.36
	170	0.003480	0.08839	3.50	1.130	85.49
	200	0.002926	0.07433	3.75	1.025	86.51
Silt	230	0.002461	0.06250	4.00	0.936	87.45
	270	0.002069	0.05256	4.25	0.872	88.32
	325	0.001740	0.04419	4.50	0.825	89.15
	400	0.001463	0.03716	4.75	0.778	89.92
	450	0.001230	0.03125	5.00	0.737	90.66
	500	0.001035	0.02628	5.25	0.700	91.36
	635	0.000870	0.02210	5.50	0.667	92.03
		0.000732	0.01858	5.75	0.648	92.68
		0.000615	0.01562	6.00	0.643	93.32
		0.000517	0.01314	6.25	0.631	93.95
Clay		0.000435	0.01105	6.50	0.593	94.54
		0.000366	0.00929	6.75	0.547	95.09
		0.000308	0.00781	7.00	0.508	95.60
		0.000259	0.00657	7.25	0.478	96.08
		0.000217	0.00552	7.50	0.455	96.53
		0.000183	0.00465	7.75	0.435	96.97
		0.000154	0.00391	8.00	0.417	97.38
		0.000129	0.00328	8.25	0.394	97.78
		0.000109	0.00276	8.50	0.364	98.14
		0.000091	0.00232	8.75	0.329	98.47
		0.000077	0.00195	9.00	0.290	98.76
		0.000065	0.00164	9.25	0.251	99.01
		0.000054	0.00138	9.50	0.215	99.23
		0.000046	0.00116	9.75	0.185	99.41
		0.000038	0.00098	10.00	0.158	99.57
	0.000032	0.00082	10.25	0.134	99.70	
	0.000027	0.00069	10.50	0.110	99.81	
	0.000023	0.00058	10.75	0.086	99.90	
	0.000019	0.00049	11.00	0.060	99.96	
	0.000016	0.00041	11.25	0.032	99.99	
	0.000015	0.00038	11.50	0.008	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0498	0.0498	0.0498	
(mm)	1.2657	1.2657	1.2657	
Mean	Coarse sand sized			
(in)	0.0731	0.0265	0.0327	
(mm)	1.8565	0.6731	0.8308	
Sorting	V. Poor			
	3.156	2.601	2.766	
Skewness	Strongly fine skewed			
	0.845	0.849	0.403	
Kurtosis	Lepokurtic			
	0.249	0.860	1.195	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
44.31	43.14	9.94	2.62	12.55
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3080	7.8242	-2.9679	
10	0.2411	6.1234	-2.6143	
16	0.1607	4.0825	-2.0295	
25	0.1328	3.3743	-1.7546	
30	0.1189	3.0202	-1.5947	
50	0.0498	1.2657	-0.3399	
60	0.0311	0.7892	0.3416	
75	0.0133	0.3387	1.5621	
84	0.0044	0.1110	3.1716	
90	0.0014	0.0365	4.7741	
95	0.0004	0.0096	6.7057	



Sieve and Laser Particle Size Analysis

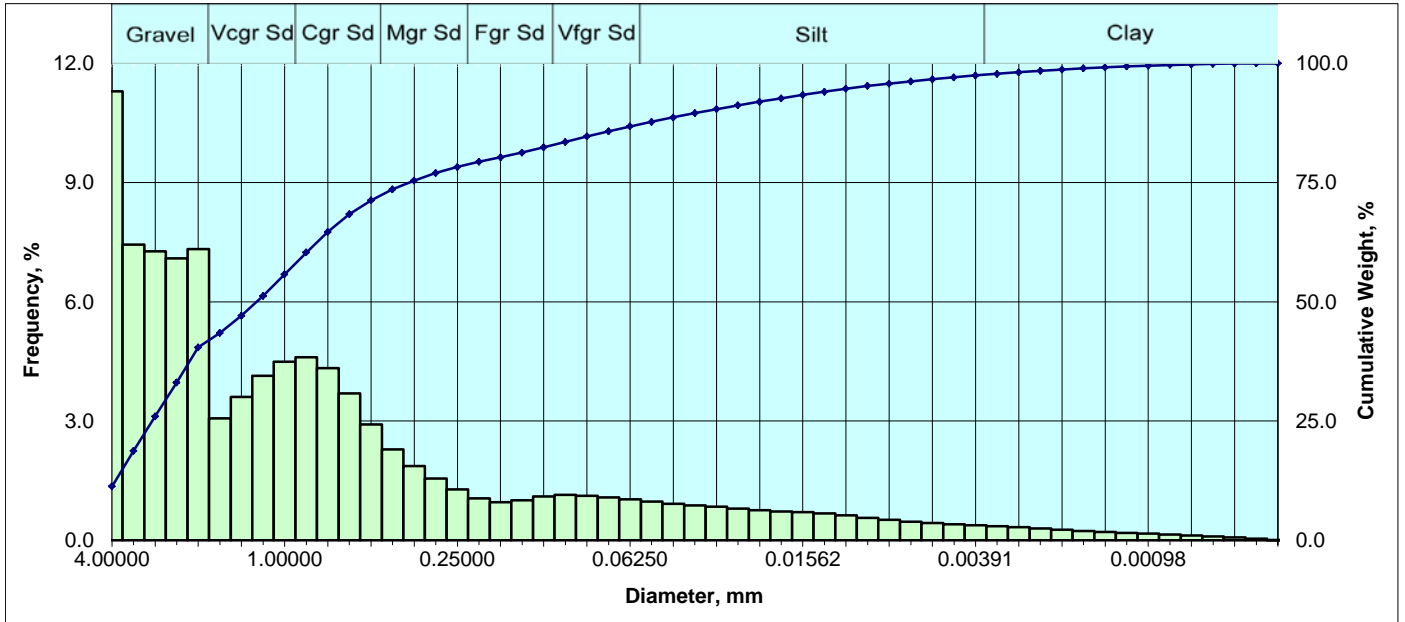


Particle Size Distribution							
	Diameter				Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]	
Granule	5	0.157480	4.00000	-2.00	5.887	5.89	
	6	0.132425	3.36359	-1.75	4.138	10.03	
	7	0.111355	2.82843	-1.50	5.034	15.06	
	8	0.093638	2.37841	-1.25	5.930	20.99	
	10	0.078740	2.00000	-1.00	6.741	27.73	
V Crse Sand	12	0.066212	1.68179	-0.75	7.085	34.82	
	14	0.055678	1.41421	-0.50	7.549	42.36	
	16	0.046819	1.18921	-0.25	7.337	49.70	
	18	0.039370	1.00000	0.00	6.551	56.25	
Coarse Sand	20	0.033106	0.84090	0.25	5.619	61.87	
	25	0.027839	0.70711	0.50	4.693	66.56	
	30	0.023410	0.59460	0.75	3.844	70.41	
	35	0.019685	0.50000	1.00	3.104	73.51	
	40	0.016553	0.42045	1.25	2.522	76.03	
Medium Sand	45	0.013919	0.35355	1.50	2.096	78.13	
	50	0.011705	0.29730	1.75	1.814	79.95	
	60	0.009843	0.25000	2.00	1.588	81.53	
	70	0.008277	0.21022	2.25	1.354	82.89	
Fine Sand	80	0.006960	0.17678	2.50	1.149	84.04	
	100	0.005852	0.14865	2.75	1.056	85.09	
	120	0.004921	0.12500	3.00	1.034	86.13	
	140	0.004138	0.10511	3.25	0.991	87.12	
V. Fine Sand	170	0.003480	0.08839	3.50	0.912	88.03	
	200	0.002926	0.07433	3.75	0.828	88.86	
	230	0.002461	0.06250	4.00	0.758	89.61	
	270	0.002069	0.05256	4.25	0.697	90.31	
	325	0.001740	0.04419	4.50	0.655	90.97	
	400	0.001463	0.03716	4.75	0.633	91.60	
	450	0.001230	0.03125	5.00	0.619	92.22	
Silt	500	0.001035	0.02628	5.25	0.595	92.81	
	635	0.000870	0.02210	5.50	0.562	93.38	
		0.000732	0.01858	5.75	0.541	93.92	
		0.000615	0.01562	6.00	0.535	94.45	
		0.000517	0.01314	6.25	0.523	94.97	
		0.000435	0.01105	6.50	0.486	95.46	
		0.000366	0.00929	6.75	0.441	95.90	
		0.000308	0.00781	7.00	0.403	96.30	
		0.000259	0.00657	7.25	0.374	96.68	
		0.000217	0.00552	7.50	0.354	97.03	
		0.000183	0.00465	7.75	0.339	97.37	
		0.000154	0.00391	8.00	0.329	97.70	
		0.000129	0.00328	8.25	0.315	98.01	
	Clay		0.000109	0.00276	8.50	0.297	98.31
			0.000091	0.00232	8.75	0.274	98.59
		0.000077	0.00195	9.00	0.248	98.83	
		0.000065	0.00164	9.25	0.221	99.05	
		0.000054	0.00138	9.50	0.195	99.25	
		0.000046	0.00116	9.75	0.172	99.42	
		0.000038	0.00098	10.00	0.151	99.57	
		0.000032	0.00082	10.25	0.131	99.70	
		0.000027	0.00069	10.50	0.110	99.81	
		0.000023	0.00058	10.75	0.086	99.90	
		0.000019	0.00049	11.00	0.061	99.96	
		0.000016	0.00041	11.25	0.033	99.99	
		0.000015	0.00038	11.50	0.008	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0465	0.0465	0.0465	
(mm)	1.1806	1.1806	1.1806	
Mean	Coarse sand sized			
(in)	0.0513	0.0276	0.0328	
(mm)	1.3032	0.7002	0.8334	
Sorting	V. Poor			
	2.180	1.977	2.282	
Skewness	Strongly fine skewed			
	0.837	1.130	0.452	
Kurtosis	Very leptokurtic			
	0.257	1.158	1.556	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
27.73	61.88	8.08	2.30	10.39
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.1903	4.8328	-2.2728	
10	0.1326	3.3675	-1.7517	
16	0.1085	2.7571	-1.4631	
25	0.0848	2.1533	-1.1065	
30	0.0747	1.8981	-0.9245	
50	0.0465	1.1806	-0.2395	
60	0.0352	0.8939	0.1618	
75	0.0178	0.4531	1.1421	
84	0.0070	0.1778	2.4913	
90	0.0022	0.0570	4.1328	
95	0.0005	0.0130	6.2623	



Sieve and Laser Particle Size Analysis

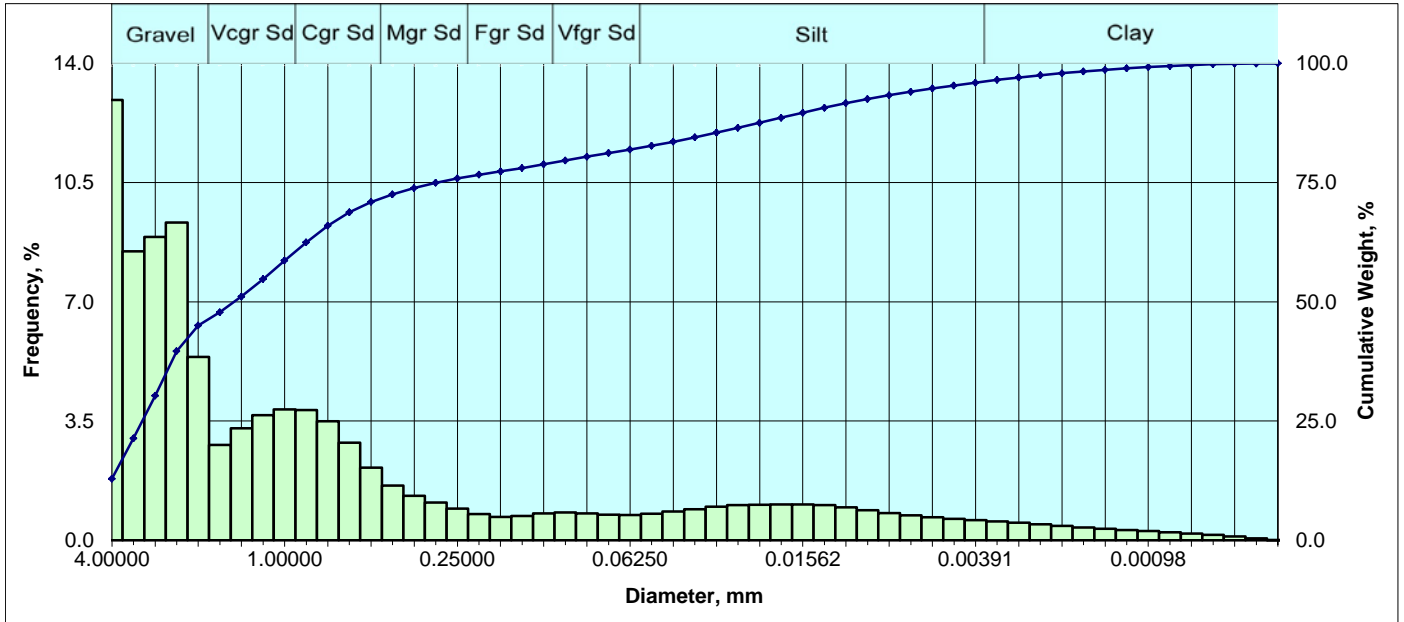


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	11.300	11.30
	6	0.132425	3.36359	-1.75	7.443	18.74
	7	0.111355	2.82843	-1.50	7.270	26.01
	8	0.093638	2.37841	-1.25	7.096	33.11
V Crse Sand	10	0.078740	2.00000	-1.00	7.327	40.44
	12	0.066212	1.68179	-0.75	3.066	43.50
	14	0.055678	1.41421	-0.50	3.607	47.11
	16	0.046819	1.18921	-0.25	4.141	51.25
Coarse Sand	18	0.039370	1.00000	0.00	4.493	55.74
	20	0.033106	0.84090	0.25	4.604	60.35
	25	0.027839	0.70711	0.50	4.334	64.68
	30	0.023410	0.59460	0.75	3.696	68.38
Medium Sand	35	0.019685	0.50000	1.00	2.914	71.29
	40	0.016553	0.42045	1.25	2.289	73.58
	45	0.013919	0.35355	1.50	1.867	75.45
	50	0.011705	0.29730	1.75	1.558	77.00
Fine Sand	60	0.009843	0.25000	2.00	1.284	78.29
	70	0.008277	0.21022	2.25	1.059	79.35
	80	0.006960	0.17678	2.50	0.956	80.30
	100	0.005852	0.14865	2.75	1.006	81.31
V. Fine Sand	120	0.004921	0.12500	3.00	1.101	82.41
	140	0.004138	0.10511	3.25	1.140	83.55
	170	0.003480	0.08839	3.50	1.121	84.67
	200	0.002926	0.07433	3.75	1.080	85.75
Silt	230	0.002461	0.06250	4.00	1.032	86.78
	270	0.002069	0.05256	4.25	0.974	87.76
	325	0.001740	0.04419	4.50	0.921	88.68
	400	0.001463	0.03716	4.75	0.878	89.56
	450	0.001230	0.03125	5.00	0.843	90.40
	500	0.001035	0.02628	5.25	0.801	91.20
	635	0.000870	0.02210	5.50	0.755	91.95
		0.000732	0.01858	5.75	0.724	92.68
		0.000615	0.01562	6.00	0.707	93.39
		0.000517	0.01314	6.25	0.680	94.07
Clay		0.000435	0.01105	6.50	0.626	94.69
		0.000366	0.00929	6.75	0.566	95.26
		0.000308	0.00781	7.00	0.512	95.77
		0.000259	0.00657	7.25	0.469	96.24
		0.000217	0.00552	7.50	0.434	96.67
		0.000183	0.00465	7.75	0.405	97.08
		0.000154	0.00391	8.00	0.381	97.46
		0.000129	0.00328	8.25	0.355	97.81
		0.000109	0.00276	8.50	0.328	98.14
		0.000091	0.00232	8.75	0.298	98.44
		0.000077	0.00195	9.00	0.267	98.71
		0.000065	0.00164	9.25	0.238	98.94
		0.000054	0.00138	9.50	0.211	99.16
		0.000046	0.00116	9.75	0.189	99.34
		0.000038	0.00098	10.00	0.168	99.51
	0.000032	0.00082	10.25	0.147	99.66	
	0.000027	0.00069	10.50	0.124	99.78	
	0.000023	0.00058	10.75	0.099	99.88	
	0.000019	0.00049	11.00	0.070	99.95	
	0.000016	0.00041	11.25	0.038	99.99	
	0.000015	0.00038	11.50	0.009	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0495	0.0495	0.0495	
(mm)	1.2571	1.2571	1.2571	
Mean	Coarse sand sized			
(in)	0.0644	0.0234	0.0301	
(mm)	1.6362	0.5950	0.7635	
Sorting	V. Poor			
	2.803	2.596	2.731	
Skewness	Strongly fine skewed			
	0.824	0.860	0.444	
Kurtosis	Lepokurtic			
	0.275	0.821	1.303	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
40.44	46.35	10.68	2.54	13.22
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2787	7.0802	-2.8238	
10	0.1825	4.6355	-2.2127	
16	0.1417	3.5981	-1.8472	
25	0.1143	2.9030	-1.5375	
30	0.1014	2.5755	-1.3649	
50	0.0495	1.2571	-0.3301	
60	0.0336	0.8529	0.2296	
75	0.0145	0.3695	1.4362	
84	0.0039	0.0984	3.3452	
90	0.0013	0.0340	4.8763	
95	0.0004	0.0101	6.6307	



Sieve and Laser Particle Size Analysis

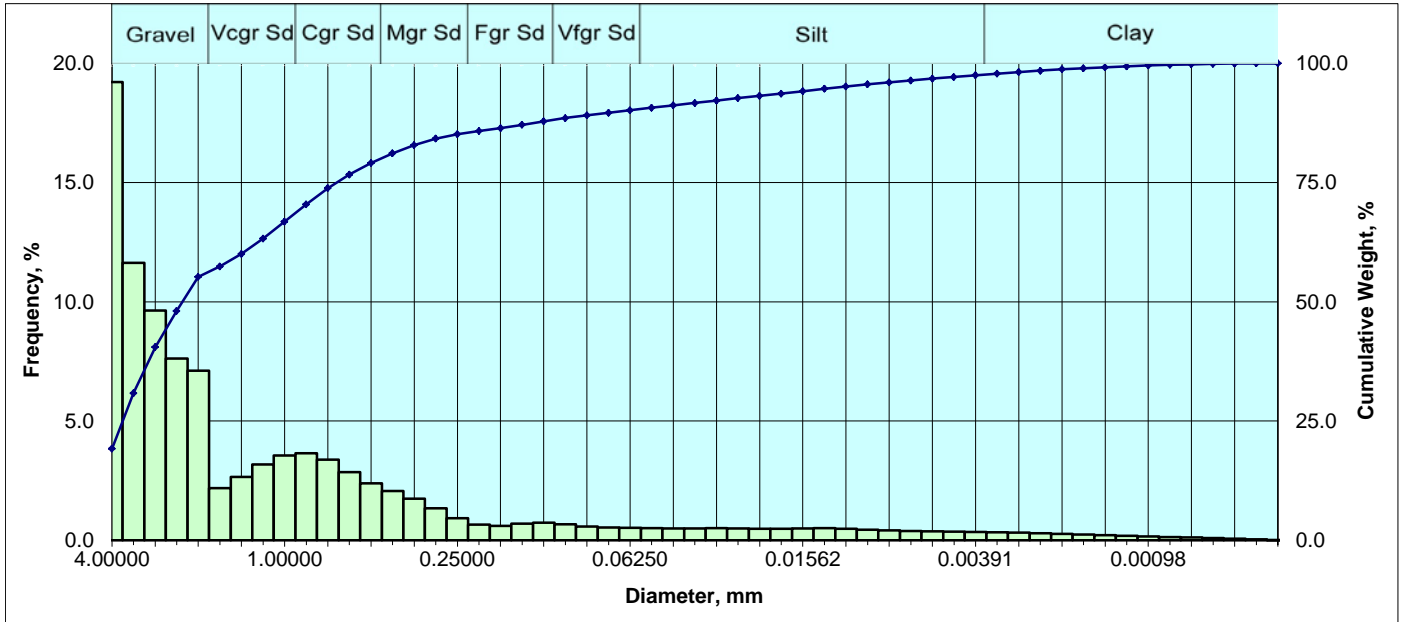


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	12.926	12.93
	6	0.132425	3.36359	-1.75	8.482	21.41
	7	0.111355	2.82843	-1.50	8.905	30.31
	8	0.093638	2.37841	-1.25	9.327	39.64
	10	0.078740	2.00000	-1.00	5.383	45.02
V Crse Sand	12	0.066212	1.68179	-0.75	2.803	47.83
	14	0.055678	1.41421	-0.50	3.284	51.11
	16	0.046819	1.18921	-0.25	3.674	54.78
	18	0.039370	1.00000	0.00	3.847	58.63
Coarse Sand	20	0.033106	0.84090	0.25	3.819	62.45
	25	0.027839	0.70711	0.50	3.491	65.94
	30	0.023410	0.59460	0.75	2.862	68.80
	35	0.019685	0.50000	1.00	2.136	70.94
	40	0.016553	0.42045	1.25	1.608	72.55
Medium Sand	45	0.013919	0.35355	1.50	1.302	73.85
	50	0.011705	0.29730	1.75	1.107	74.96
	60	0.009843	0.25000	2.00	0.929	75.89
	70	0.008277	0.21022	2.25	0.770	76.66
Fine Sand	80	0.006960	0.17678	2.50	0.688	77.34
	100	0.005852	0.14865	2.75	0.716	78.06
	120	0.004921	0.12500	3.00	0.786	78.85
	140	0.004138	0.10511	3.25	0.815	79.66
V. Fine Sand	170	0.003480	0.08839	3.50	0.786	80.45
	200	0.002926	0.07433	3.75	0.749	81.20
	230	0.002461	0.06250	4.00	0.746	81.94
	270	0.002069	0.05256	4.25	0.780	82.72
	325	0.001740	0.04419	4.50	0.844	83.57
Silt	400	0.001463	0.03716	4.75	0.916	84.48
	450	0.001230	0.03125	5.00	0.989	85.47
	500	0.001035	0.02628	5.25	1.036	86.51
	635	0.000870	0.02210	5.50	1.048	87.56
		0.000732	0.01858	5.75	1.049	88.60
		0.000615	0.01562	6.00	1.053	89.66
		0.000517	0.01314	6.25	1.036	90.69
		0.000435	0.01105	6.50	0.968	91.66
		0.000366	0.00929	6.75	0.879	92.54
		0.000308	0.00781	7.00	0.797	93.34
		0.000259	0.00657	7.25	0.729	94.07
		0.000217	0.00552	7.50	0.674	94.74
		0.000183	0.00465	7.75	0.629	95.37
	0.000154	0.00391	8.00	0.593	95.96	
Clay		0.000129	0.00328	8.25	0.556	96.52
		0.000109	0.00276	8.50	0.516	97.04
		0.000091	0.00232	8.75	0.472	97.51
		0.000077	0.00195	9.00	0.425	97.93
		0.000065	0.00164	9.25	0.380	98.31
		0.000054	0.00138	9.50	0.339	98.65
		0.000046	0.00116	9.75	0.303	98.95
		0.000038	0.00098	10.00	0.269	99.22
		0.000032	0.00082	10.25	0.236	99.46
		0.000027	0.00069	10.50	0.199	99.66
		0.000023	0.00058	10.75	0.157	99.81
		0.000019	0.00049	11.00	0.111	99.93
		0.000016	0.00041	11.25	0.060	99.99
		0.000015	0.00038	11.50	0.015	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0592	0.0592	0.0592	
(mm)	1.5047	1.5047	1.5047	
Mean	Coarse sand sized			
(in)	0.0678	0.0155	0.0242	
(mm)	1.7214	0.3925	0.6143	
Sorting	V. Poor			
	3.266	3.264	3.220	
Skewness	Strongly fine skewed			
	0.641	0.903	0.578	
Kurtosis	Lepokurtic			
	0.272	0.606	1.258	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
45.02	36.92	14.02	4.04	18.06
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2909	7.3879	-2.8852	
10	0.2067	5.2508	-2.3925	
16	0.1484	3.7694	-1.9143	
25	0.1239	3.1477	-1.6543	
30	0.1121	2.8472	-1.5096	
50	0.0592	1.5047	-0.5895	
60	0.0371	0.9430	0.0847	
75	0.0116	0.2951	1.7605	
84	0.0016	0.0409	4.6127	
90	0.0006	0.0148	6.0780	
95	0.0002	0.0052	7.5979	



Sieve and Laser Particle Size Analysis

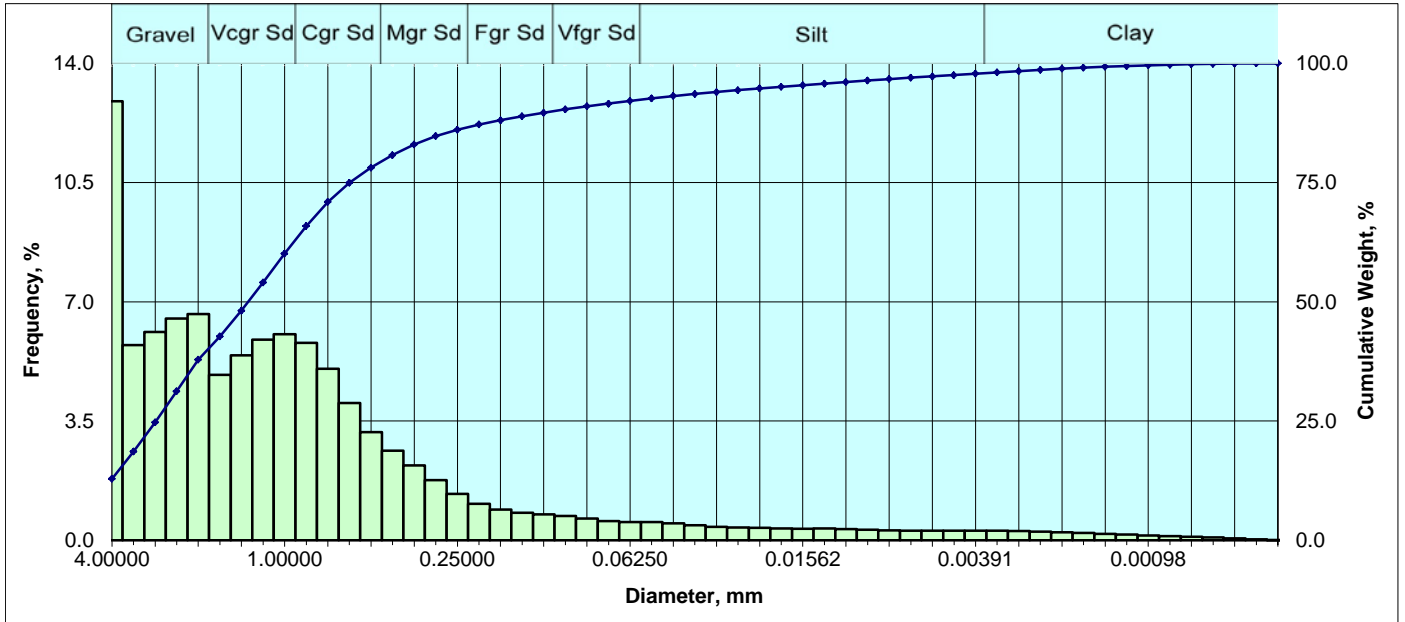


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	19.215	19.21
	6	0.132425	3.36359	-1.75	11.640	30.85
	7	0.111355	2.82843	-1.50	9.630	40.48
	8	0.093638	2.37841	-1.25	7.621	48.11
	10	0.078740	2.00000	-1.00	7.113	55.22
V Crse Sand	12	0.066212	1.68179	-0.75	2.193	57.41
	14	0.055678	1.41421	-0.50	2.655	60.07
	16	0.046819	1.18921	-0.25	3.176	63.24
	18	0.039370	1.00000	0.00	3.555	66.80
Coarse Sand	20	0.033106	0.84090	0.25	3.657	70.46
	25	0.027839	0.70711	0.50	3.378	73.83
	30	0.023410	0.59460	0.75	2.861	76.69
	35	0.019685	0.50000	1.00	2.387	79.08
	40	0.016553	0.42045	1.25	2.063	81.14
Medium Sand	45	0.013919	0.35355	1.50	1.742	82.89
	50	0.011705	0.29730	1.75	1.338	84.23
	60	0.009843	0.25000	2.00	0.928	85.15
	70	0.008277	0.21022	2.25	0.663	85.82
Fine Sand	80	0.006960	0.17678	2.50	0.608	86.42
	100	0.005852	0.14865	2.75	0.695	87.12
	120	0.004921	0.12500	3.00	0.740	87.86
	140	0.004138	0.10511	3.25	0.677	88.54
V. Fine Sand	170	0.003480	0.08839	3.50	0.584	89.12
	200	0.002926	0.07433	3.75	0.534	89.65
	230	0.002461	0.06250	4.00	0.524	90.18
	270	0.002069	0.05256	4.25	0.514	90.69
	325	0.001740	0.04419	4.50	0.501	91.19
	400	0.001463	0.03716	4.75	0.499	91.69
	450	0.001230	0.03125	5.00	0.504	92.20
Silt	500	0.001035	0.02628	5.25	0.497	92.69
	635	0.000870	0.02210	5.50	0.480	93.17
		0.000732	0.01858	5.75	0.482	93.66
		0.000615	0.01562	6.00	0.504	94.16
		0.000517	0.01314	6.25	0.513	94.67
		0.000435	0.01105	6.50	0.487	95.16
		0.000366	0.00929	6.75	0.448	95.61
		0.000308	0.00781	7.00	0.415	96.02
		0.000259	0.00657	7.25	0.391	96.41
		0.000217	0.00552	7.50	0.374	96.79
		0.000183	0.00465	7.75	0.363	97.15
		0.000154	0.00391	8.00	0.355	97.51
		0.000129	0.00328	8.25	0.343	97.85
		0.000109	0.00276	8.50	0.325	98.17
	Clay		0.000091	0.00232	8.75	0.299
		0.000077	0.00195	9.00	0.270	98.74
		0.000065	0.00164	9.25	0.239	98.98
		0.000054	0.00138	9.50	0.210	99.19
		0.000046	0.00116	9.75	0.185	99.38
		0.000038	0.00098	10.00	0.162	99.54
		0.000032	0.00082	10.25	0.140	99.68
		0.000027	0.00069	10.50	0.118	99.80
		0.000023	0.00058	10.75	0.093	99.89
		0.000019	0.00049	11.00	0.066	99.96
		0.000016	0.00041	11.25	0.035	99.99
		0.000015	0.00038	11.50	0.009	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.0897	0.0897	0.0897	
(mm)	2.2777	2.2777	2.2777	
Mean	Very coarse sand sized			
(in)	0.0855	0.0484	0.0594	
(mm)	2.1725	1.2291	1.5097	
Sorting	V. Poor			
	2.360	2.002	2.430	
Skewness	Strongly fine skewed			
	0.685	1.441	0.528	
Kurtosis	Very leptokurtic			
	0.230	1.354	1.559	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
55.22	34.96	7.33	2.49	9.82
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3184	8.0873	-3.0157	
10	0.2618	6.6496	-2.7333	
16	0.1939	4.9244	-2.2999	
25	0.1450	3.6837	-1.8812	
30	0.1343	3.4103	-1.7699	
50	0.0897	2.2777	-1.1876	
60	0.0559	1.4211	-0.5070	
75	0.0260	0.6613	0.5967	
84	0.0121	0.3068	1.7048	
90	0.0026	0.0665	3.9099	
95	0.0005	0.0117	6.4129	



Sieve and Laser Particle Size Analysis

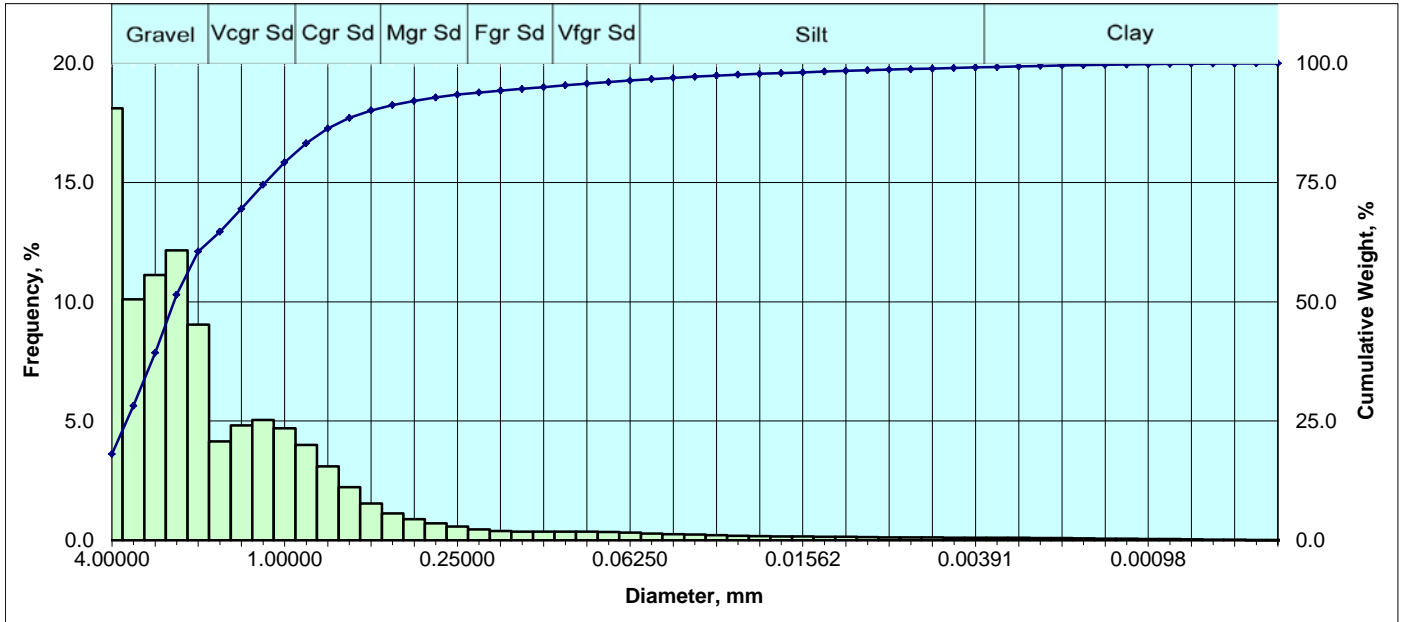


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]	
Granule	5	0.157480	4.00000	-2.00	12.886	12.89
	6	0.132425	3.36359	-1.75	5.727	18.61
	7	0.111355	2.82843	-1.50	6.118	24.73
	8	0.093638	2.37841	-1.25	6.508	31.24
	10	0.078740	2.00000	-1.00	6.638	37.88
V Crse Sand	12	0.066212	1.68179	-0.75	4.858	42.74
	14	0.055678	1.41421	-0.50	5.427	48.16
	16	0.046819	1.18921	-0.25	5.891	54.05
	18	0.039370	1.00000	0.00	6.053	60.11
Coarse Sand	20	0.033106	0.84090	0.25	5.797	65.90
	25	0.027839	0.70711	0.50	5.036	70.94
	30	0.023410	0.59460	0.75	4.031	74.97
	35	0.019685	0.50000	1.00	3.173	78.14
	40	0.016553	0.42045	1.25	2.627	80.77
Medium Sand	45	0.013919	0.35355	1.50	2.203	82.97
	50	0.011705	0.29730	1.75	1.768	84.74
	60	0.009843	0.25000	2.00	1.361	86.10
	70	0.008277	0.21022	2.25	1.073	87.17
Fine Sand	80	0.006960	0.17678	2.50	0.903	88.08
	100	0.005852	0.14865	2.75	0.810	88.89
	120	0.004921	0.12500	3.00	0.766	89.65
	140	0.004138	0.10511	3.25	0.719	90.37
V. Fine Sand	170	0.003480	0.08839	3.50	0.637	91.01
	200	0.002926	0.07433	3.75	0.562	91.57
	230	0.002461	0.06250	4.00	0.541	92.11
	270	0.002069	0.05256	4.25	0.539	92.65
	325	0.001740	0.04419	4.50	0.502	93.15
	400	0.001463	0.03716	4.75	0.439	93.59
	450	0.001230	0.03125	5.00	0.398	93.99
	500	0.001035	0.02628	5.25	0.380	94.37
	635	0.000870	0.02210	5.50	0.364	94.73
		0.000732	0.01858	5.75	0.347	95.08
Silt		0.000615	0.01562	6.00	0.343	95.42
		0.000517	0.01314	6.25	0.345	95.77
		0.000435	0.01105	6.50	0.332	96.10
		0.000366	0.00929	6.75	0.312	96.41
		0.000308	0.00781	7.00	0.295	96.71
		0.000259	0.00657	7.25	0.286	96.99
		0.000217	0.00552	7.50	0.281	97.27
		0.000183	0.00465	7.75	0.281	97.55
		0.000154	0.00391	8.00	0.282	97.84
		0.000129	0.00328	8.25	0.279	98.12
		0.000109	0.00276	8.50	0.271	98.39
		0.000091	0.00232	8.75	0.256	98.64
		0.000077	0.00195	9.00	0.236	98.88
		0.000065	0.00164	9.25	0.213	99.09
	Clay		0.000054	0.00138	9.50	0.189
		0.000046	0.00116	9.75	0.167	99.45
		0.000038	0.00098	10.00	0.146	99.59
		0.000032	0.00082	10.25	0.126	99.72
		0.000027	0.00069	10.50	0.104	99.82
		0.000023	0.00058	10.75	0.081	99.91
		0.000019	0.00049	11.00	0.057	99.96
		0.000016	0.00041	11.25	0.030	99.99
		0.000015	0.00038	11.50	0.007	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0529	0.0529	0.0529	
(mm)	1.3441	1.3441	1.3441	
Mean	Very coarse sand sized			
(in)	0.0670	0.0426	0.0458	
(mm)	1.7018	1.0828	1.1637	
Sorting	V. Poor			
	2.175	1.755	2.176	
Skewness	Strongly fine skewed			
	0.961	1.042	0.302	
Kurtosis	Very leptokurtic			
	0.216	1.442	1.566	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
37.88	54.23	5.72	2.16	7.89
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2906	7.3813	-2.8839	
10	0.2062	5.2375	-2.3889	
16	0.1439	3.6540	-1.8695	
25	0.1106	2.8099	-1.4905	
30	0.0970	2.4641	-1.3011	
50	0.0529	1.3441	-0.4266	
60	0.0395	1.0033	-0.0048	
75	0.0234	0.5937	0.7521	
84	0.0126	0.3209	1.6399	
90	0.0045	0.1154	3.1150	
95	0.0008	0.0194	5.6875	



Sieve and Laser Particle Size Analysis

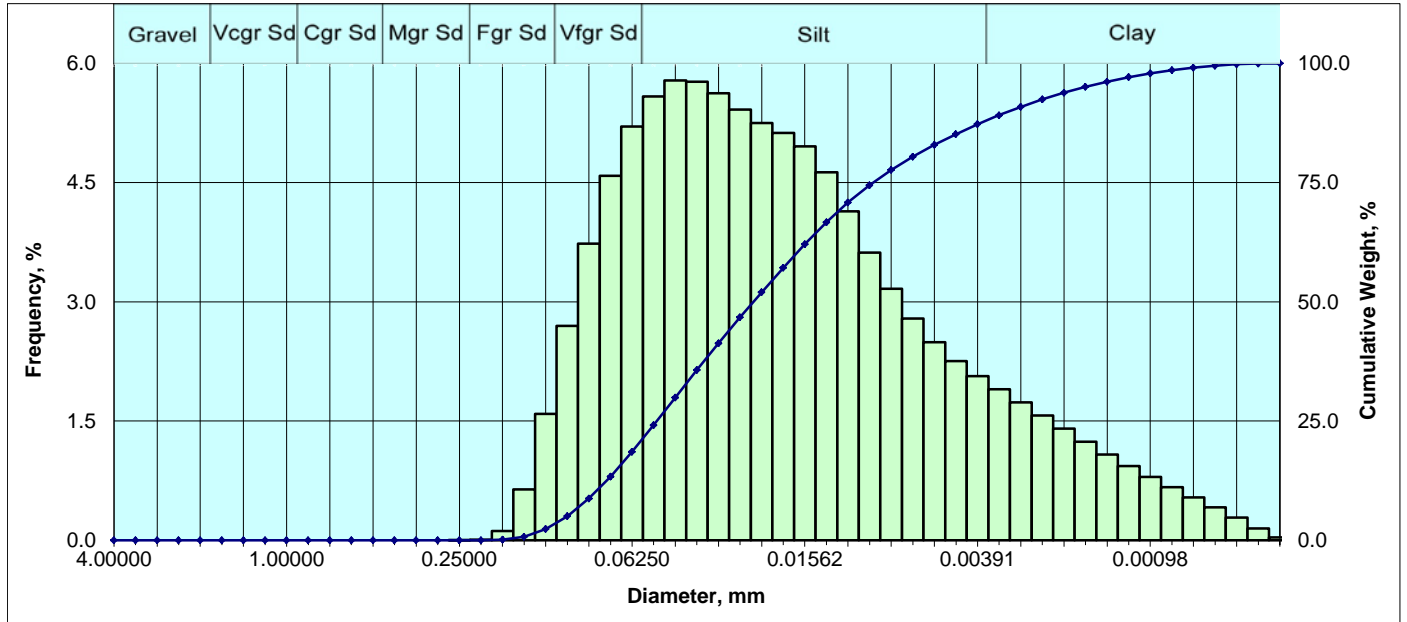


Particle Size Distribution							
	Diameter				Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]	
Granule	5	0.157480	4.00000	-2.00	18.116	18.12	
	6	0.132425	3.36359	-1.75	10.103	28.22	
	7	0.111355	2.82843	-1.50	11.130	39.35	
	8	0.093638	2.37841	-1.25	12.158	51.51	
	10	0.078740	2.00000	-1.00	9.041	60.55	
V Crse Sand	12	0.066212	1.68179	-0.75	4.153	64.70	
	14	0.055678	1.41421	-0.50	4.820	69.52	
	16	0.046819	1.18921	-0.25	5.053	74.57	
	18	0.039370	1.00000	0.00	4.700	79.27	
Coarse Sand	20	0.033106	0.84090	0.25	3.993	83.27	
	25	0.027839	0.70711	0.50	3.100	86.37	
	30	0.023410	0.59460	0.75	2.227	88.59	
	35	0.019685	0.50000	1.00	1.545	90.14	
Medium Sand	40	0.016553	0.42045	1.25	1.130	91.27	
	45	0.013919	0.35355	1.50	0.880	92.15	
	50	0.011705	0.29730	1.75	0.712	92.86	
	60	0.009843	0.25000	2.00	0.573	93.43	
Fine Sand	70	0.008277	0.21022	2.25	0.461	93.89	
	80	0.006960	0.17678	2.50	0.391	94.28	
	100	0.005852	0.14865	2.75	0.367	94.65	
	120	0.004921	0.12500	3.00	0.367	95.02	
V. Fine Sand	140	0.004138	0.10511	3.25	0.370	95.39	
	170	0.003480	0.08839	3.50	0.367	95.75	
	200	0.002926	0.07433	3.75	0.351	96.10	
	230	0.002461	0.06250	4.00	0.323	96.43	
	Silt	270	0.002069	0.05256	4.25	0.288	96.72
		325	0.001740	0.04419	4.50	0.261	96.98
		400	0.001463	0.03716	4.75	0.241	97.22
450		0.001230	0.03125	5.00	0.219	97.44	
500		0.001035	0.02628	5.25	0.193	97.63	
635		0.000870	0.02210	5.50	0.171	97.80	
		0.000732	0.01858	5.75	0.162	97.96	
		0.000615	0.01562	6.00	0.160	98.12	
		0.000517	0.01314	6.25	0.155	98.28	
		0.000435	0.01105	6.50	0.145	98.42	
		0.000366	0.00929	6.75	0.134	98.56	
		0.000308	0.00781	7.00	0.126	98.68	
		0.000259	0.00657	7.25	0.120	98.80	
		0.000217	0.00552	7.50	0.117	98.92	
Clay		0.000183	0.00465	7.75	0.115	99.04	
		0.000154	0.00391	8.00	0.114	99.15	
		0.000129	0.00328	8.25	0.111	99.26	
		0.000109	0.00276	8.50	0.107	99.37	
		0.000091	0.00232	8.75	0.100	99.47	
		0.000077	0.00195	9.00	0.092	99.56	
		0.000065	0.00164	9.25	0.084	99.64	
		0.000054	0.00138	9.50	0.075	99.72	
		0.000046	0.00116	9.75	0.066	99.78	
		0.000038	0.00098	10.00	0.058	99.84	
		0.000032	0.00082	10.25	0.050	99.89	
		0.000027	0.00069	10.50	0.041	99.93	
		0.000023	0.00058	10.75	0.032	99.96	
		0.000019	0.00049	11.00	0.022	99.99	
	0.000016	0.00041	11.25	0.012	100.00		
	0.000015	0.00038	11.50	0.003	100.00		

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.0958	0.0958	0.0958	
(mm)	2.4342	2.4342	2.4342	
Mean	Granule sized			
(in)	0.0933	0.0763	0.0823	
(mm)	2.3692	1.9389	2.0916	
Sorting	Poor			
	1.744	1.261	1.537	
Skewness	Strongly fine skewed			
	0.840	1.013	0.343	
Kurtosis	Very leptokurtic			
	0.201	1.375	1.528	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
60.55	35.88	2.72	0.85	3.57
Percentile [Weight. %]				
	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3150	8.0001	-3.0000	
10	0.2549	6.4753	-2.6949	
16	0.1829	4.6455	-2.2158	
25	0.1404	3.5664	-1.8345	
30	0.1291	3.2780	-1.7128	
50	0.0958	2.4342	-1.2834	
60	0.0796	2.0229	-1.0164	
75	0.0461	1.1720	-0.2290	
84	0.0319	0.8092	0.3054	
90	0.0200	0.5084	0.9760	
95	0.0050	0.1261	2.9872	



Sieve and Laser Particle Size Analysis

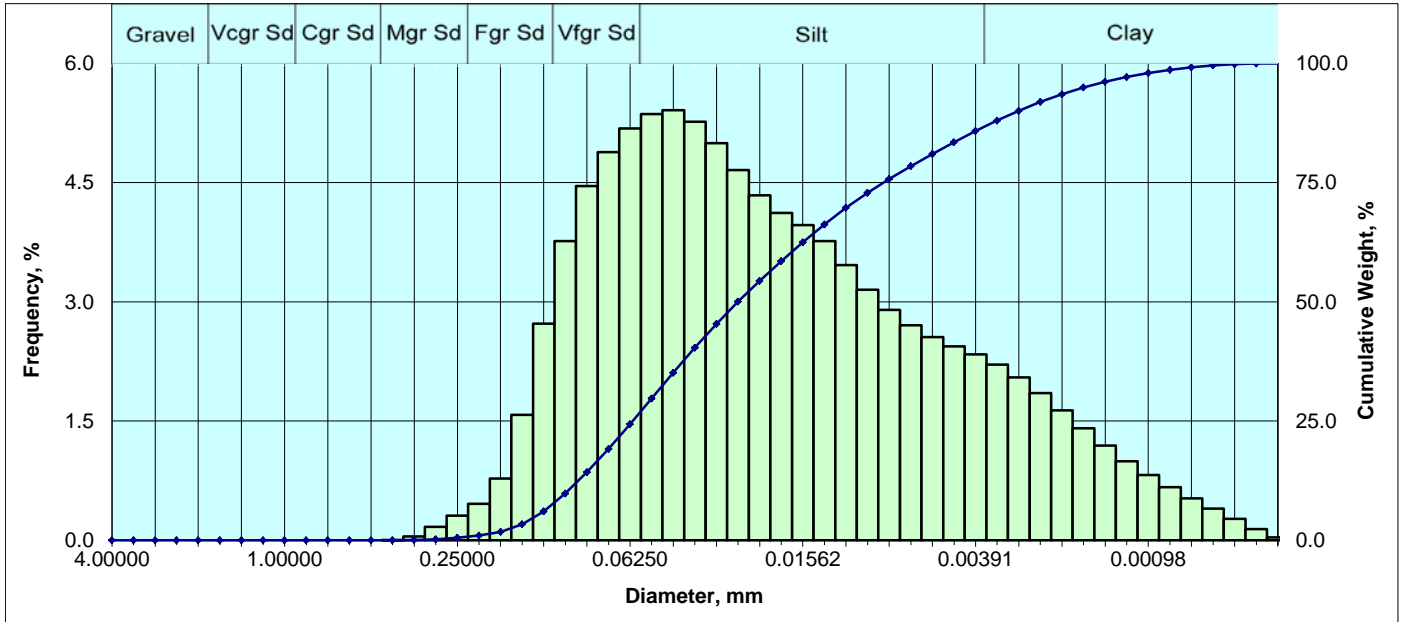


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.007	0.01
	80	0.006960	0.17678	2.50	0.115	0.12
	100	0.005852	0.14865	2.75	0.638	0.76
	120	0.004921	0.12500	3.00	1.591	2.35
V. Fine Sand	140	0.004138	0.10511	3.25	2.699	5.05
	170	0.003480	0.08839	3.50	3.733	8.78
	200	0.002926	0.07433	3.75	4.586	13.37
	230	0.002461	0.06250	4.00	5.205	18.57
	Silt	270	0.002069	0.05256	4.25	5.582
325		0.001740	0.04419	4.50	5.785	29.94
400		0.001463	0.03716	4.75	5.771	35.71
450		0.001230	0.03125	5.00	5.622	41.33
500		0.001035	0.02628	5.25	5.420	46.75
635		0.000870	0.02210	5.50	5.249	52.00
		0.000732	0.01858	5.75	5.126	57.13
		0.000615	0.01562	6.00	4.957	62.09
		0.000517	0.01314	6.25	4.630	66.72
		0.000435	0.01105	6.50	4.138	70.85
		0.000366	0.00929	6.75	3.621	74.47
Clay		0.000308	0.00781	7.00	3.165	77.64
		0.000259	0.00657	7.25	2.790	80.43
		0.000217	0.00552	7.50	2.491	82.92
		0.000183	0.00465	7.75	2.253	85.17
		0.000154	0.00391	8.00	2.066	87.24
		0.000129	0.00328	8.25	1.898	89.14
		0.000109	0.00276	8.50	1.736	90.87
		0.000091	0.00232	8.75	1.572	92.44
		0.000077	0.00195	9.00	1.405	93.85
		0.000065	0.00164	9.25	1.239	95.09
		0.000054	0.00138	9.50	1.081	96.17
		0.000046	0.00116	9.75	0.935	97.10
		0.000038	0.00098	10.00	0.797	97.90
		0.000032	0.00082	10.25	0.669	98.57
	0.000027	0.00069	10.50	0.542	99.11	
	0.000023	0.00058	10.75	0.414	99.53	
	0.000019	0.00049	11.00	0.286	99.81	
	0.000016	0.00041	11.25	0.151	99.96	
	0.000015	0.00038	11.50	0.037	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0009	0.0009	0.0009	
(mm)	0.0237	0.0237	0.0237	
Mean	Silt sized			
(in)	0.0012	0.0007	0.0008	
(mm)	0.0302	0.0187	0.0202	
Sorting	Poor			
	2.382	1.872	1.843	
Skewness	Finely skewed			
	0.910	0.448	0.232	
Kurtosis	Mesokurtic			
	0.259	0.599	0.979	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	18.57	68.66	12.76	81.43
Percentile [Weight. %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0042	0.1055	3.2449	
10	0.0033	0.0847	3.5622	
16	0.0027	0.0683	3.8709	
25	0.0020	0.0513	4.2839	
30	0.0017	0.0441	4.5023	
50	0.0009	0.0237	5.3994	
60	0.0007	0.0169	5.8895	
75	0.0004	0.0090	6.7886	
84	0.0002	0.0051	7.6145	
90	0.0001	0.0030	8.3689	
95	0.0001	0.0017	9.2306	



Sieve and Laser Particle Size Analysis

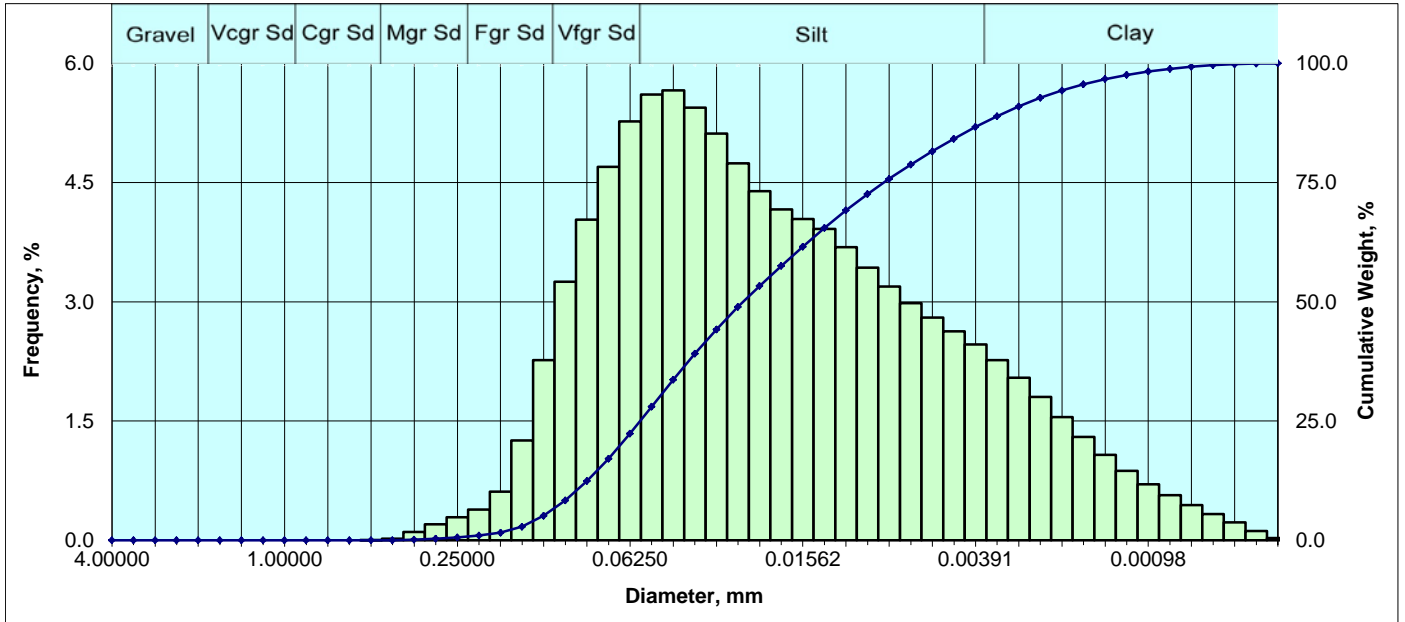


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.003	0.00
	45	0.013919	0.35355	1.50	0.048	0.05
	50	0.011705	0.29730	1.75	0.171	0.22
	60	0.009843	0.25000	2.00	0.310	0.53
Fine Sand	70	0.008277	0.21022	2.25	0.458	0.99
	80	0.006960	0.17678	2.50	0.778	1.77
	100	0.005852	0.14865	2.75	1.580	3.35
	120	0.004921	0.12500	3.00	2.724	6.07
V. Fine Sand	140	0.004138	0.10511	3.25	3.765	9.84
	170	0.003480	0.08839	3.50	4.458	14.29
	200	0.002926	0.07433	3.75	4.884	19.18
	230	0.002461	0.06250	4.00	5.179	24.36
	Silt	270	0.002069	0.05256	4.25	5.360
325		0.001740	0.04419	4.50	5.412	35.13
400		0.001463	0.03716	4.75	5.265	40.39
450		0.001230	0.03125	5.00	4.996	45.39
500		0.001035	0.02628	5.25	4.660	50.05
635		0.000870	0.02210	5.50	4.341	54.39
		0.000732	0.01858	5.75	4.119	58.51
		0.000615	0.01562	6.00	3.964	62.47
		0.000517	0.01314	6.25	3.765	66.24
		0.000435	0.01105	6.50	3.462	69.70
		0.000366	0.00929	6.75	3.151	72.85
Clay		0.000308	0.00781	7.00	2.897	75.75
		0.000259	0.00657	7.25	2.703	78.45
		0.000217	0.00552	7.50	2.558	81.01
		0.000183	0.00465	7.75	2.441	83.45
		0.000154	0.00391	8.00	2.339	85.79
		0.000129	0.00328	8.25	2.211	88.00
		0.000109	0.00276	8.50	2.049	90.05
		0.000091	0.00232	8.75	1.853	91.90
		0.000077	0.00195	9.00	1.635	93.54
		0.000065	0.00164	9.25	1.409	94.95
		0.000054	0.00138	9.50	1.193	96.14
		0.000046	0.00116	9.75	0.995	97.14
		0.000038	0.00098	10.00	0.820	97.96
		0.000032	0.00082	10.25	0.668	98.62
		0.000027	0.00069	10.50	0.529	99.15
	0.000023	0.00058	10.75	0.398	99.55	
	0.000019	0.00049	11.00	0.272	99.82	
	0.000016	0.00041	11.25	0.143	99.97	
	0.000015	0.00038	11.50	0.035	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0263	0.0263	0.0263	
Mean	Silt sized			
(in)	0.0014	0.0008	0.0008	
(mm)	0.0348	0.0193	0.0214	
Sorting	V. Poor			
	2.735	2.111	2.020	
Skewness	Finely skewed			
	0.851	0.394	0.236	
Kurtosis	Platykurtic			
	0.261	0.507	0.898	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	24.36	61.43	14.21	75.64
Percentile [Weight. %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0053	0.1343	2.8965	
10	0.0041	0.1045	3.2585	
16	0.0033	0.0835	3.5825	
25	0.0024	0.0613	4.0278	
30	0.0021	0.0521	4.2620	
50	0.0010	0.0263	5.2471	
60	0.0007	0.0175	5.8390	
75	0.0003	0.0082	6.9311	
84	0.0002	0.0045	7.8049	
90	0.0001	0.0028	8.4933	
95	0.0001	0.0016	9.2601	



Sieve and Laser Particle Size Analysis

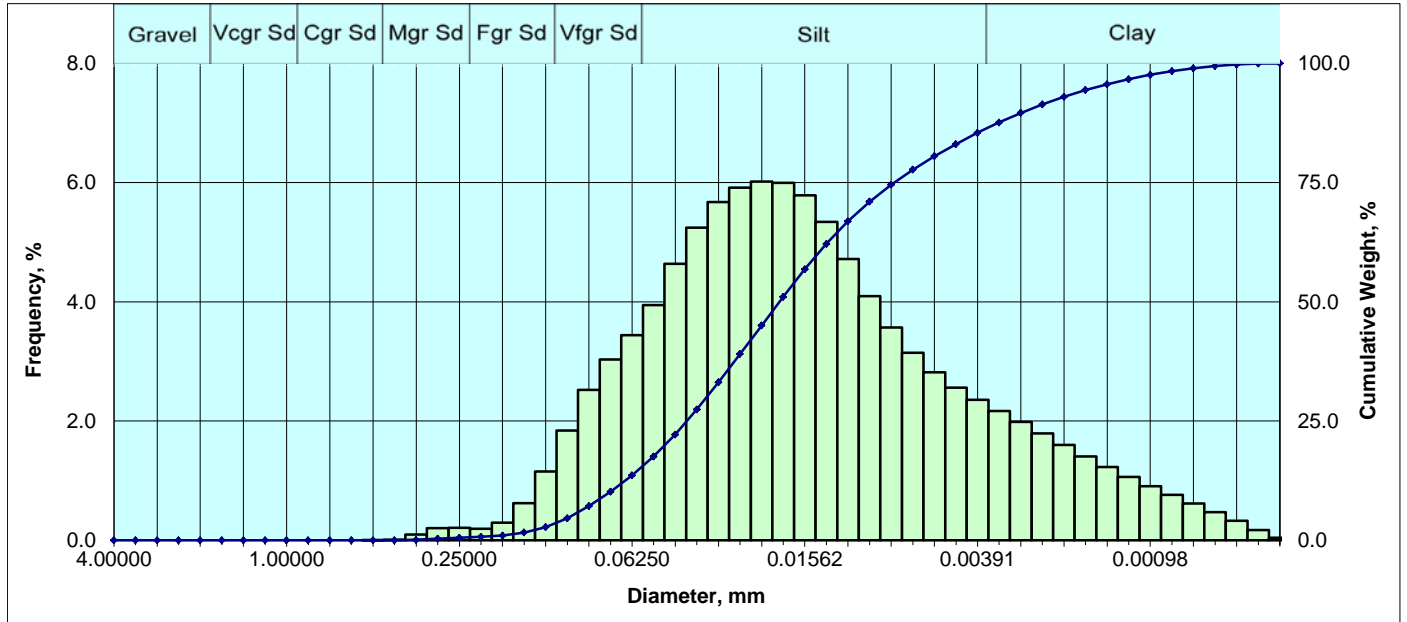


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.021	0.02
	45	0.013919	0.35355	1.50	0.104	0.13
	50	0.011705	0.29730	1.75	0.201	0.33
	60	0.009843	0.25000	2.00	0.290	0.62
Fine Sand	70	0.008277	0.21022	2.25	0.387	1.00
	80	0.006960	0.17678	2.50	0.613	1.62
	100	0.005852	0.14865	2.75	1.258	2.87
	120	0.004921	0.12500	3.00	2.268	5.14
V. Fine Sand	140	0.004138	0.10511	3.25	3.254	8.40
	170	0.003480	0.08839	3.50	4.033	12.43
	200	0.002926	0.07433	3.75	4.697	17.13
	230	0.002461	0.06250	4.00	5.269	22.39
	Silt	270	0.002069	0.05256	4.25	5.608
325		0.001740	0.04419	4.50	5.659	33.66
400		0.001463	0.03716	4.75	5.444	39.11
450		0.001230	0.03125	5.00	5.118	44.22
500		0.001035	0.02628	5.25	4.742	48.97
635		0.000870	0.02210	5.50	4.392	53.36
		0.000732	0.01858	5.75	4.162	57.52
		0.000615	0.01562	6.00	4.042	61.56
		0.000517	0.01314	6.25	3.918	65.48
		0.000435	0.01105	6.50	3.689	69.17
		0.000366	0.00929	6.75	3.429	72.60
		0.000308	0.00781	7.00	3.191	75.79
		0.000259	0.00657	7.25	2.983	78.77
	0.000217	0.00552	7.50	2.801	81.57	
	0.000183	0.00465	7.75	2.630	84.20	
	0.000154	0.00391	8.00	2.463	86.67	
Clay		0.000129	0.00328	8.25	2.268	88.93
		0.000109	0.00276	8.50	2.046	90.98
		0.000091	0.00232	8.75	1.802	92.78
		0.000077	0.00195	9.00	1.549	94.33
		0.000065	0.00164	9.25	1.301	95.63
		0.000054	0.00138	9.50	1.075	96.71
		0.000046	0.00116	9.75	0.875	97.58
		0.000038	0.00098	10.00	0.706	98.29
		0.000032	0.00082	10.25	0.566	98.85
		0.000027	0.00069	10.50	0.443	99.30
		0.000023	0.00058	10.75	0.331	99.63
		0.000019	0.00049	11.00	0.225	99.85
		0.000016	0.00041	11.25	0.118	99.97
		0.000015	0.00038	11.50	0.029	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0253	0.0253	0.0253	
Mean	Silt sized			
(in)	0.0013	0.0008	0.0008	
(mm)	0.0330	0.0191	0.0210	
Sorting	Poor			
	2.660	2.022	1.941	
Skewness	Finely skewed			
	0.860	0.370	0.221	
Kurtosis	Platykurtic			
	0.260	0.519	0.891	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	22.39	64.27	13.33	77.61
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0050	0.1265	2.9830	
10	0.0039	0.0985	3.3443	
16	0.0031	0.0777	3.6860	
25	0.0023	0.0579	4.1108	
30	0.0020	0.0496	4.3334	
50	0.0010	0.0253	5.3051	
60	0.0007	0.0168	5.8982	
75	0.0003	0.0082	6.9341	
84	0.0002	0.0047	7.7291	
90	0.0001	0.0030	8.3749	
95	0.0001	0.0018	9.1230	



Sieve and Laser Particle Size Analysis

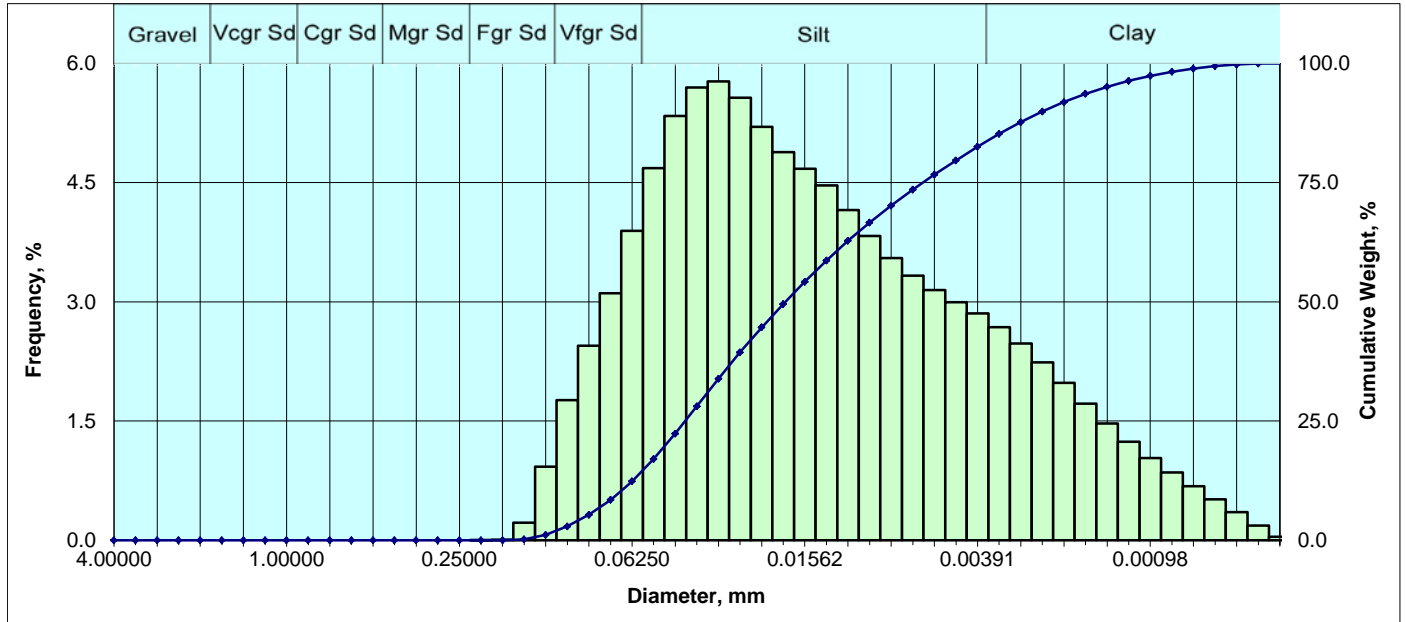


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.012	0.01
	45	0.013919	0.35355	1.50	0.098	0.11
	50	0.011705	0.29730	1.75	0.204	0.31
	60	0.009843	0.25000	2.00	0.208	0.52
Fine Sand	70	0.008277	0.21022	2.25	0.191	0.71
	80	0.006960	0.17678	2.50	0.293	1.01
	100	0.005852	0.14865	2.75	0.623	1.63
	120	0.004921	0.12500	3.00	1.157	2.79
V. Fine Sand	140	0.004138	0.10511	3.25	1.844	4.63
	170	0.003480	0.08839	3.50	2.523	7.15
	200	0.002926	0.07433	3.75	3.033	10.19
	230	0.002461	0.06250	4.00	3.441	13.63
	Silt	270	0.002069	0.05256	4.25	3.944
325		0.001740	0.04419	4.50	4.636	22.21
400		0.001463	0.03716	4.75	5.246	27.45
450		0.001230	0.03125	5.00	5.672	33.12
500		0.001035	0.02628	5.25	5.914	39.04
635		0.000870	0.02210	5.50	6.018	45.06
		0.000732	0.01858	5.75	5.994	51.05
		0.000615	0.01562	6.00	5.786	56.84
		0.000517	0.01314	6.25	5.342	62.18
		0.000435	0.01105	6.50	4.719	66.90
		0.000366	0.00929	6.75	4.096	70.99
		0.000308	0.00781	7.00	3.568	74.56
		0.000259	0.00657	7.25	3.148	77.71
	0.000217	0.00552	7.50	2.820	80.53	
	0.000183	0.00465	7.75	2.561	83.09	
	0.000154	0.00391	8.00	2.357	85.45	
Clay		0.000129	0.00328	8.25	2.170	87.62
		0.000109	0.00276	8.50	1.984	89.60
		0.000091	0.00232	8.75	1.794	91.40
		0.000077	0.00195	9.00	1.601	93.00
		0.000065	0.00164	9.25	1.409	94.41
		0.000054	0.00138	9.50	1.228	95.63
		0.000046	0.00116	9.75	1.062	96.70
		0.000038	0.00098	10.00	0.906	97.60
		0.000032	0.00082	10.25	0.762	98.36
		0.000027	0.00069	10.50	0.618	98.98
		0.000023	0.00058	10.75	0.474	99.46
		0.000019	0.00049	11.00	0.327	99.78
		0.000016	0.00041	11.25	0.173	99.96
		0.000015	0.00038	11.50	0.042	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0192	0.0192	0.0192	
Mean	Silt sized			
(in)	0.0009	0.0006	0.0007	
(mm)	0.0240	0.0157	0.0168	
Sorting	Poor			
	2.301	1.848	1.845	
Skewness	Finely skewed			
	0.916	0.336	0.181	
Kurtosis	Mesokurtic			
	0.226	0.645	1.036	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	13.63	71.82	14.55	86.37
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0040	0.1027	3.2841	
10	0.0030	0.0752	3.7334	
16	0.0022	0.0565	4.1452	
25	0.0016	0.0404	4.6277	
30	0.0014	0.0345	4.8570	
50	0.0008	0.0192	5.7029	
60	0.0006	0.0142	6.1428	
75	0.0003	0.0076	7.0324	
84	0.0002	0.0044	7.8414	
90	0.0001	0.0027	8.5519	
95	0.0001	0.0015	9.3656	



Sieve and Laser Particle Size Analysis

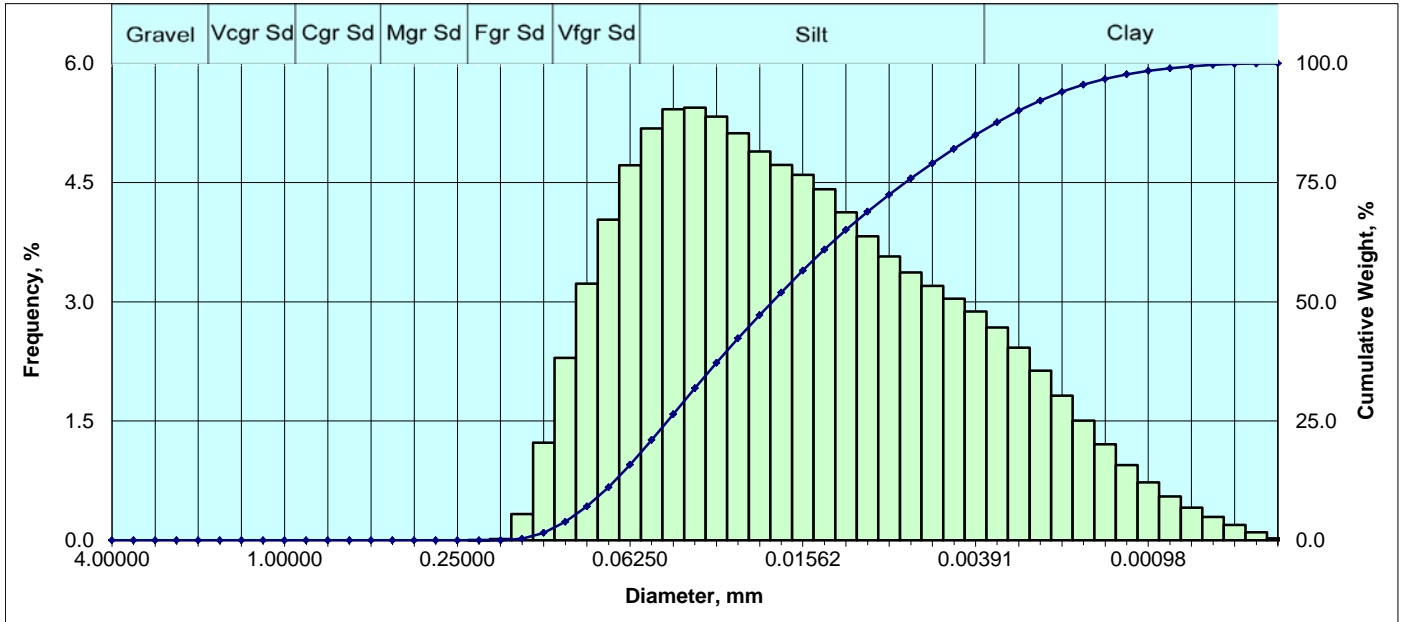


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.010	0.01
	100	0.005852	0.14865	2.75	0.224	0.23
	120	0.004921	0.12500	3.00	0.925	1.16
V. Fine Sand	140	0.004138	0.10511	3.25	1.765	2.92
	170	0.003480	0.08839	3.50	2.447	5.37
	200	0.002926	0.07433	3.75	3.108	8.48
	230	0.002461	0.06250	4.00	3.894	12.37
	Silt	270	0.002069	0.05256	4.25	4.681
325		0.001740	0.04419	4.50	5.339	22.39
400		0.001463	0.03716	4.75	5.697	28.09
450		0.001230	0.03125	5.00	5.773	33.86
500		0.001035	0.02628	5.25	5.566	39.43
635		0.000870	0.02210	5.50	5.202	44.63
		0.000732	0.01858	5.75	4.884	49.52
		0.000615	0.01562	6.00	4.673	54.19
		0.000517	0.01314	6.25	4.465	58.66
		0.000435	0.01105	6.50	4.156	62.81
		0.000366	0.00929	6.75	3.830	66.64
		0.000308	0.00781	7.00	3.553	70.19
Clay			0.000259	0.00657	7.25	3.329
		0.000217	0.00552	7.50	3.150	76.67
		0.000183	0.00465	7.75	2.994	79.67
		0.000154	0.00391	8.00	2.853	82.52
		0.000129	0.00328	8.25	2.683	85.20
		0.000109	0.00276	8.50	2.477	87.68
		0.000091	0.00232	8.75	2.240	89.92
		0.000077	0.00195	9.00	1.981	91.90
		0.000065	0.00164	9.25	1.718	93.62
		0.000054	0.00138	9.50	1.468	95.09
		0.000046	0.00116	9.75	1.240	96.33
		0.000038	0.00098	10.00	1.034	97.36
		0.000032	0.00082	10.25	0.853	98.21
	0.000027	0.00069	10.50	0.682	98.90	
	0.000023	0.00058	10.75	0.517	99.41	
	0.000019	0.00049	11.00	0.355	99.77	
	0.000016	0.00041	11.25	0.187	99.95	
	0.000015	0.00038	11.50	0.046	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0183	0.0183	0.0183	
Mean	Silt sized			
(in)	0.0009	0.0006	0.0006	
(mm)	0.0235	0.0140	0.0153	
Sorting	Poor			
	2.596	1.971	1.899	
Skewness	Finely skewed			
	0.864	0.354	0.214	
Kurtosis	Platykurtic			
	0.259	0.528	0.897	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	12.37	70.15	17.48	87.63
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0036	0.0909	3.4591	
10	0.0027	0.0697	3.8425	
16	0.0022	0.0548	4.1898	
25	0.0016	0.0410	4.6090	
30	0.0014	0.0352	4.8280	
50	0.0007	0.0183	5.7739	
60	0.0005	0.0125	6.3263	
75	0.0002	0.0061	7.3619	
84	0.0001	0.0036	8.1326	
90	0.0001	0.0023	8.7594	
95	0.0001	0.0014	9.4840	



Sieve and Laser Particle Size Analysis

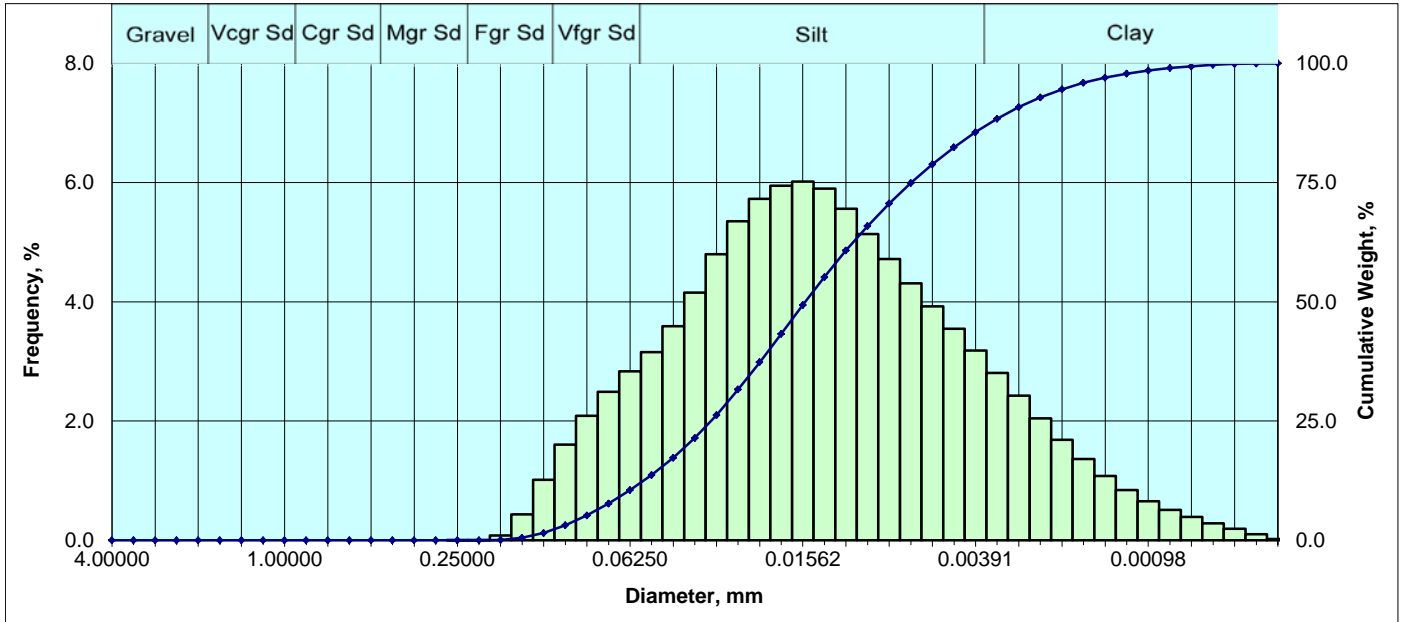


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.018	0.02
	100	0.005852	0.14865	2.75	0.331	0.35
	120	0.004921	0.12500	3.00	1.227	1.58
V. Fine Sand	140	0.004138	0.10511	3.25	2.296	3.87
	170	0.003480	0.08839	3.50	3.228	7.10
	200	0.002926	0.07433	3.75	4.033	11.13
	230	0.002461	0.06250	4.00	4.718	15.85
	Silt	270	0.002069	0.05256	4.25	5.180
325		0.001740	0.04419	4.50	5.424	26.45
400		0.001463	0.03716	4.75	5.441	31.90
450		0.001230	0.03125	5.00	5.329	37.22
500		0.001035	0.02628	5.25	5.121	42.35
635		0.000870	0.02210	5.50	4.891	47.24
		0.000732	0.01858	5.75	4.723	51.96
		0.000615	0.01562	6.00	4.597	56.56
		0.000517	0.01314	6.25	4.416	60.97
		0.000435	0.01105	6.50	4.125	65.10
		0.000366	0.00929	6.75	3.825	68.92
Clay		0.000308	0.00781	7.00	3.573	72.50
		0.000259	0.00657	7.25	3.369	75.86
		0.000217	0.00552	7.50	3.199	79.06
		0.000183	0.00465	7.75	3.040	82.10
		0.000154	0.00391	8.00	2.880	84.98
		0.000129	0.00328	8.25	2.675	87.66
		0.000109	0.00276	8.50	2.424	90.08
		0.000091	0.00232	8.75	2.133	92.22
		0.000077	0.00195	9.00	1.819	94.04
		0.000065	0.00164	9.25	1.504	95.54
		0.000054	0.00138	9.50	1.209	96.75
		0.000046	0.00116	9.75	0.947	97.70
		0.000038	0.00098	10.00	0.728	98.42
		0.000032	0.00082	10.25	0.553	98.98
		0.000027	0.00069	10.50	0.412	99.39
	0.000023	0.00058	10.75	0.295	99.68	
	0.000019	0.00049	11.00	0.193	99.88	
	0.000016	0.00041	11.25	0.100	99.98	
	0.000015	0.00038	11.50	0.024	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0200	0.0200	0.0200	
Mean	Silt sized			
(in)	0.0010	0.0006	0.0007	
(mm)	0.0267	0.0161	0.0173	
Sorting	Poor			
	2.596	1.951	1.858	
Skewness	Finely skewed			
	0.892	0.309	0.185	
Kurtosis	Platykurtic			
	0.262	0.492	0.867	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	15.85	69.13	15.02	84.15
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0039	0.0993	3.3325	
10	0.0031	0.0783	3.6753	
16	0.0024	0.0622	4.0066	
25	0.0018	0.0464	4.4286	
30	0.0016	0.0396	4.6579	
50	0.0008	0.0200	5.6409	
60	0.0005	0.0137	6.1911	
75	0.0003	0.0069	7.1816	
84	0.0002	0.0042	7.9096	
90	0.0001	0.0028	8.4907	
95	0.0001	0.0018	9.1553	



Sieve and Laser Particle Size Analysis

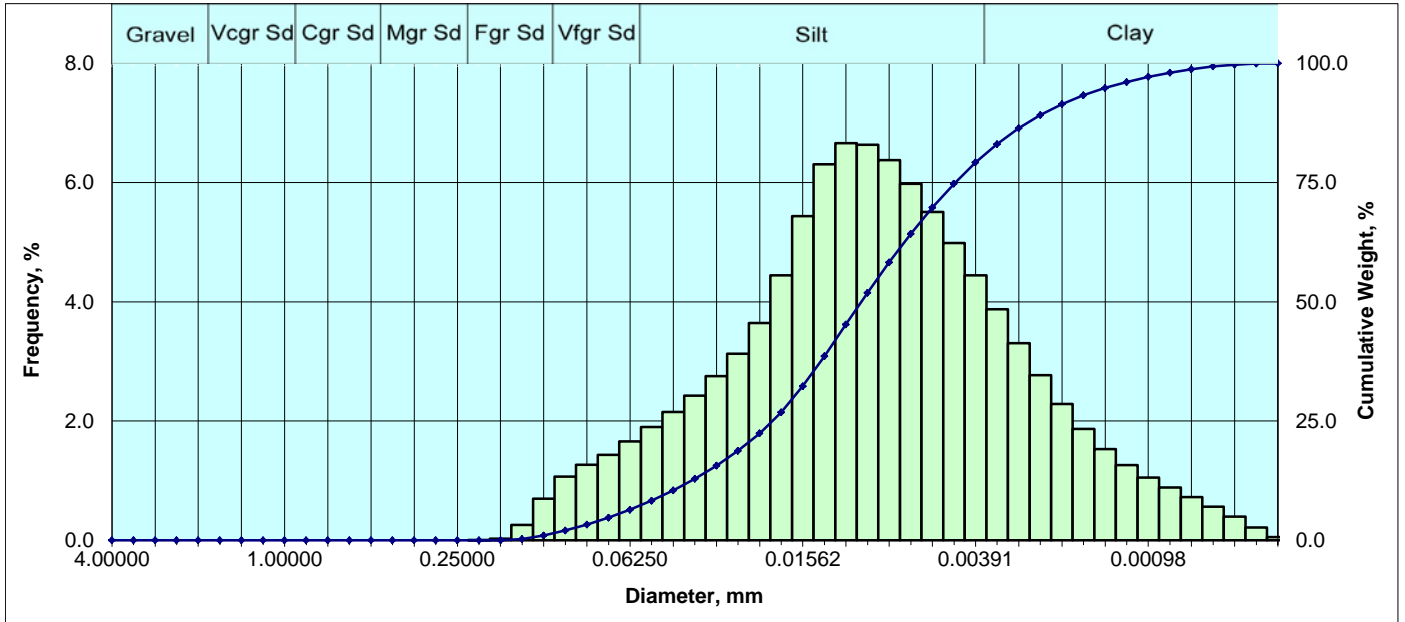


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.005	0.01
	80	0.006960	0.17678	2.50	0.082	0.09
	100	0.005852	0.14865	2.75	0.433	0.52
	120	0.004921	0.12500	3.00	1.016	1.54
V. Fine Sand	140	0.004138	0.10511	3.25	1.605	3.14
	170	0.003480	0.08839	3.50	2.089	5.23
	200	0.002926	0.07433	3.75	2.491	7.72
	230	0.002461	0.06250	4.00	2.835	10.56
	Silt	270	0.002069	0.05256	4.25	3.155
325		0.001740	0.04419	4.50	3.591	17.30
400		0.001463	0.03716	4.75	4.157	21.46
450		0.001230	0.03125	5.00	4.798	26.26
500		0.001035	0.02628	5.25	5.353	31.61
635		0.000870	0.02210	5.50	5.728	37.34
		0.000732	0.01858	5.75	5.948	43.29
		0.000615	0.01562	6.00	6.017	49.30
		0.000517	0.01314	6.25	5.899	55.20
		0.000435	0.01105	6.50	5.559	60.76
		0.000366	0.00929	6.75	5.139	65.90
		0.000308	0.00781	7.00	4.716	70.62
		0.000259	0.00657	7.25	4.310	74.93
	0.000217	0.00552	7.50	3.925	78.85	
	0.000183	0.00465	7.75	3.551	82.40	
	0.000154	0.00391	8.00	3.185	85.59	
Clay		0.000129	0.00328	8.25	2.807	88.39
		0.000109	0.00276	8.50	2.424	90.82
		0.000091	0.00232	8.75	2.047	92.86
		0.000077	0.00195	9.00	1.688	94.55
		0.000065	0.00164	9.25	1.362	95.91
		0.000054	0.00138	9.50	1.080	97.00
		0.000046	0.00116	9.75	0.844	97.84
		0.000038	0.00098	10.00	0.656	98.50
		0.000032	0.00082	10.25	0.510	99.01
		0.000027	0.00069	10.50	0.390	99.40
		0.000023	0.00058	10.75	0.286	99.68
		0.000019	0.00049	11.00	0.192	99.87
		0.000016	0.00041	11.25	0.101	99.98
		0.000015	0.00038	11.50	0.025	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0153	0.0153	0.0153	
Mean	Silt sized			
(in)	0.0008	0.0006	0.0006	
(mm)	0.0197	0.0142	0.0146	
Sorting	Poor			
	2.238	1.733	1.716	
Skewness	Near symmetrical			
	0.956	0.142	0.076	
Kurtosis	Mesokurtic			
	0.212	0.618	0.989	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	10.56	75.03	14.41	89.44
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0036	0.0902	3.4701	
10	0.0026	0.0648	3.9474	
16	0.0019	0.0472	4.4042	
25	0.0013	0.0328	4.9301	
30	0.0011	0.0278	5.1701	
50	0.0006	0.0153	6.0273	
60	0.0004	0.0113	6.4631	
75	0.0003	0.0065	7.2543	
84	0.0002	0.0043	7.8700	
90	0.0001	0.0029	8.4107	
95	0.0001	0.0019	9.0774	



Sieve and Laser Particle Size Analysis

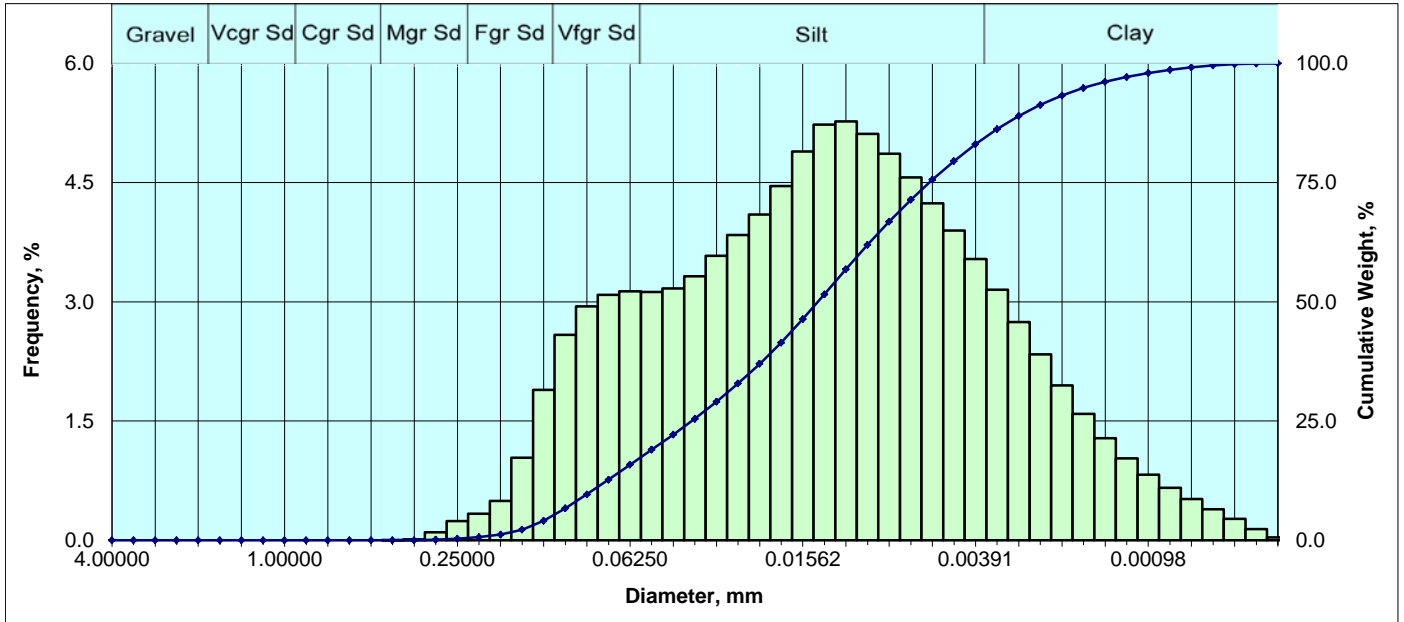


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.001	0.00
	80	0.006960	0.17678	2.50	0.030	0.03
	100	0.005852	0.14865	2.75	0.259	0.29
	120	0.004921	0.12500	3.00	0.698	0.99
V. Fine Sand	140	0.004138	0.10511	3.25	1.067	2.05
	170	0.003480	0.08839	3.50	1.269	3.32
	200	0.002926	0.07433	3.75	1.435	4.76
	230	0.002461	0.06250	4.00	1.658	6.42
	Silt	270	0.002069	0.05256	4.25	1.900
325		0.001740	0.04419	4.50	2.153	10.47
400		0.001463	0.03716	4.75	2.426	12.90
450		0.001230	0.03125	5.00	2.755	15.65
500		0.001035	0.02628	5.25	3.130	18.78
635		0.000870	0.02210	5.50	3.647	22.43
		0.000732	0.01858	5.75	4.446	26.87
		0.000615	0.01562	6.00	5.437	32.31
		0.000517	0.01314	6.25	6.305	38.62
		0.000435	0.01105	6.50	6.663	45.28
		0.000366	0.00929	6.75	6.636	51.92
		0.000308	0.00781	7.00	6.378	58.29
		0.000259	0.00657	7.25	5.980	64.27
	0.000217	0.00552	7.50	5.507	69.78	
	0.000183	0.00465	7.75	4.989	74.77	
	0.000154	0.00391	8.00	4.444	79.21	
Clay		0.000129	0.00328	8.25	3.875	83.09
		0.000109	0.00276	8.50	3.309	86.40
		0.000091	0.00232	8.75	2.771	89.17
		0.000077	0.00195	9.00	2.285	91.45
		0.000065	0.00164	9.25	1.867	93.32
		0.000054	0.00138	9.50	1.528	94.85
		0.000046	0.00116	9.75	1.262	96.11
		0.000038	0.00098	10.00	1.053	97.16
		0.000032	0.00082	10.25	0.884	98.05
		0.000027	0.00069	10.50	0.726	98.77
		0.000023	0.00058	10.75	0.566	99.34
		0.000019	0.00049	11.00	0.397	99.73
		0.000016	0.00041	11.25	0.213	99.95
		0.000015	0.00038	11.50	0.052	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0098	0.0098	0.0098	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0123	0.0098	0.0098	
Sorting	Poor			
	2.087	1.644	1.693	
Skewness	Near symmetrical			
	0.981	-0.010	-0.004	
Kurtosis	Mesokurtic			
	0.176	0.747	1.109	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	6.42	72.80	20.79	93.58
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0029	0.0726	3.7840	
10	0.0018	0.0460	4.4418	
16	0.0012	0.0307	5.0259	
25	0.0008	0.0201	5.6394	
30	0.0007	0.0169	5.8884	
50	0.0004	0.0098	6.6733	
60	0.0003	0.0075	7.0671	
75	0.0002	0.0046	7.7620	
84	0.0001	0.0031	8.3148	
90	0.0001	0.0022	8.8362	
95	0.0001	0.0014	9.5282	



Sieve and Laser Particle Size Analysis

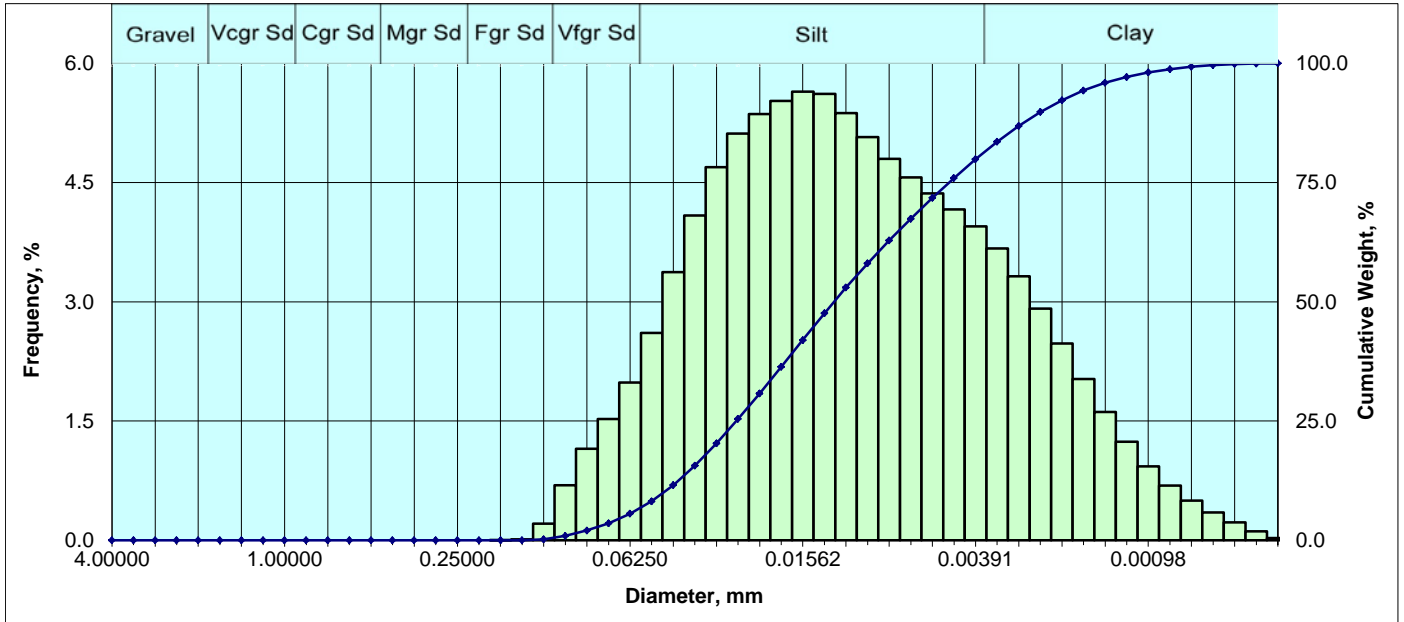


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.013	0.01
	50	0.011705	0.29730	1.75	0.102	0.12
	60	0.009843	0.25000	2.00	0.244	0.36
Fine Sand	70	0.008277	0.21022	2.25	0.336	0.69
	80	0.006960	0.17678	2.50	0.494	1.19
	100	0.005852	0.14865	2.75	1.041	2.23
	120	0.004921	0.12500	3.00	1.891	4.12
V. Fine Sand	140	0.004138	0.10511	3.25	2.586	6.71
	170	0.003480	0.08839	3.50	2.942	9.65
	200	0.002926	0.07433	3.75	3.086	12.73
	230	0.002461	0.06250	4.00	3.134	15.87
	Silt	270	0.002069	0.05256	4.25	3.126
325		0.001740	0.04419	4.50	3.167	22.16
400		0.001463	0.03716	4.75	3.323	25.48
450		0.001230	0.03125	5.00	3.580	29.06
500		0.001035	0.02628	5.25	3.840	32.90
635		0.000870	0.02210	5.50	4.100	37.00
		0.000732	0.01858	5.75	4.456	41.46
		0.000615	0.01562	6.00	4.891	46.35
		0.000517	0.01314	6.25	5.231	51.58
		0.000435	0.01105	6.50	5.269	56.85
		0.000366	0.00929	6.75	5.114	61.96
		0.000308	0.00781	7.00	4.865	66.83
		0.000259	0.00657	7.25	4.565	71.39
		0.000217	0.00552	7.50	4.240	75.63
		0.000183	0.00465	7.75	3.896	79.53
	0.000154	0.00391	8.00	3.539	83.07	
Clay		0.000129	0.00328	8.25	3.151	86.22
		0.000109	0.00276	8.50	2.745	88.97
		0.000091	0.00232	8.75	2.338	91.30
		0.000077	0.00195	9.00	1.948	93.25
		0.000065	0.00164	9.25	1.591	94.84
		0.000054	0.00138	9.50	1.285	96.13
		0.000046	0.00116	9.75	1.030	97.16
		0.000038	0.00098	10.00	0.824	97.98
		0.000032	0.00082	10.25	0.661	98.64
		0.000027	0.00069	10.50	0.521	99.16
		0.000023	0.00058	10.75	0.392	99.56
		0.000019	0.00049	11.00	0.268	99.82
		0.000016	0.00041	11.25	0.142	99.97
		0.000015	0.00038	11.50	0.035	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0139	0.0139	0.0139	
Mean	Silt sized			
(in)	0.0009	0.0006	0.0006	
(mm)	0.0219	0.0152	0.0148	
Sorting	Poor			
	2.593	2.030	1.954	
Skewness	Near symmetrical			
	1.060	0.005	-0.031	
Kurtosis	Mesokurtic			
	0.193	0.527	0.924	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	15.87	67.20	16.93	84.13
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0047	0.1182	3.0803	
10	0.0034	0.0868	3.5264	
16	0.0024	0.0621	4.0097	
25	0.0015	0.0382	4.7109	
30	0.0012	0.0300	5.0571	
50	0.0005	0.0139	6.1698	
60	0.0004	0.0100	6.6488	
75	0.0002	0.0057	7.4598	
84	0.0001	0.0037	8.0694	
90	0.0001	0.0026	8.6053	
95	0.0001	0.0016	9.2784	



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.012	0.01
	120	0.004921	0.12500	3.00	0.210	0.22
V. Fine Sand	140	0.004138	0.10511	3.25	0.691	0.91
	170	0.003480	0.08839	3.50	1.151	2.06
	200	0.002926	0.07433	3.75	1.525	3.59
	230	0.002461	0.06250	4.00	1.984	5.57
	Silt	270	0.002069	0.05256	4.25	2.610
325		0.001740	0.04419	4.50	3.373	11.56
400		0.001463	0.03716	4.75	4.087	15.64
450		0.001230	0.03125	5.00	4.695	20.34
500		0.001035	0.02628	5.25	5.117	25.46
635		0.000870	0.02210	5.50	5.360	30.82
		0.000732	0.01858	5.75	5.529	36.34
		0.000615	0.01562	6.00	5.642	41.99
		0.000517	0.01314	6.25	5.616	47.60
		0.000435	0.01105	6.50	5.376	52.98
		0.000366	0.00929	6.75	5.074	58.05
		0.000308	0.00781	7.00	4.800	62.85
		0.000259	0.00657	7.25	4.567	67.42
		0.000217	0.00552	7.50	4.362	71.78
		0.000183	0.00465	7.75	4.162	75.94
	0.000154	0.00391	8.00	3.950	79.89	
Clay		0.000129	0.00328	8.25	3.670	83.56
		0.000109	0.00276	8.50	3.322	86.89
		0.000091	0.00232	8.75	2.915	89.80
		0.000077	0.00195	9.00	2.475	92.28
		0.000065	0.00164	9.25	2.030	94.31
		0.000054	0.00138	9.50	1.613	95.92
		0.000046	0.00116	9.75	1.240	97.16
		0.000038	0.00098	10.00	0.932	98.09
		0.000032	0.00082	10.25	0.691	98.78
		0.000027	0.00069	10.50	0.500	99.28
		0.000023	0.00058	10.75	0.349	99.63
		0.000019	0.00049	11.00	0.224	99.86
		0.000016	0.00041	11.25	0.115	99.97
		0.000015	0.00038	11.50	0.028	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0122	0.0122	0.0122	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0158	0.0109	0.0113	
Sorting	Poor			
	2.349	1.756	1.701	
Skewness	Near symmetrical			
	0.932	0.160	0.100	
Kurtosis	Mesokurtic			
	0.239	0.545	0.903	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	5.57	74.32	20.11	94.43
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0026	0.0659	3.9232	
10	0.0019	0.0481	4.3793	
16	0.0014	0.0367	4.7676	
25	0.0011	0.0267	5.2259	
30	0.0009	0.0227	5.4590	
50	0.0005	0.0122	6.3562	
60	0.0003	0.0087	6.8463	
75	0.0002	0.0048	7.6894	
84	0.0001	0.0032	8.2804	
90	0.0001	0.0023	8.7685	
95	0.0001	0.0015	9.3522	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 000 6943-038 (Task M22D)

CL File Number: 1800558

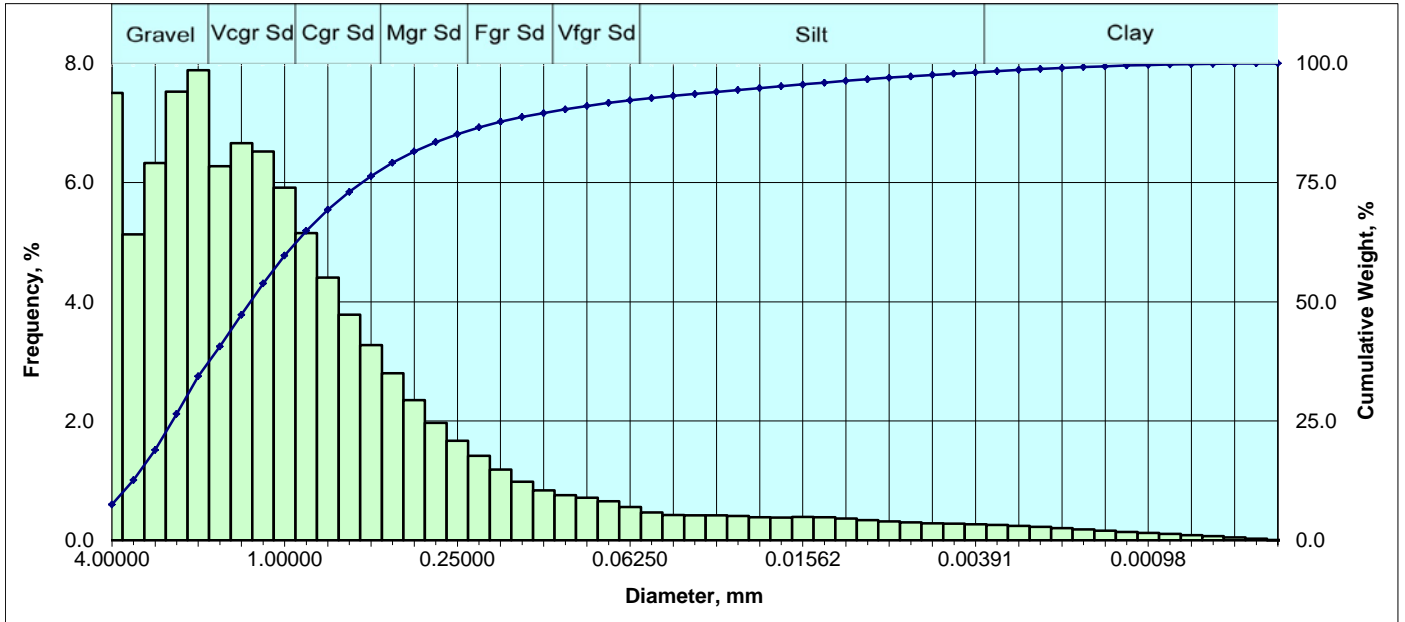
APPENDIX 4

Particle Distribution Plots

Boring TBG5



Sieve and Laser Particle Size Analysis

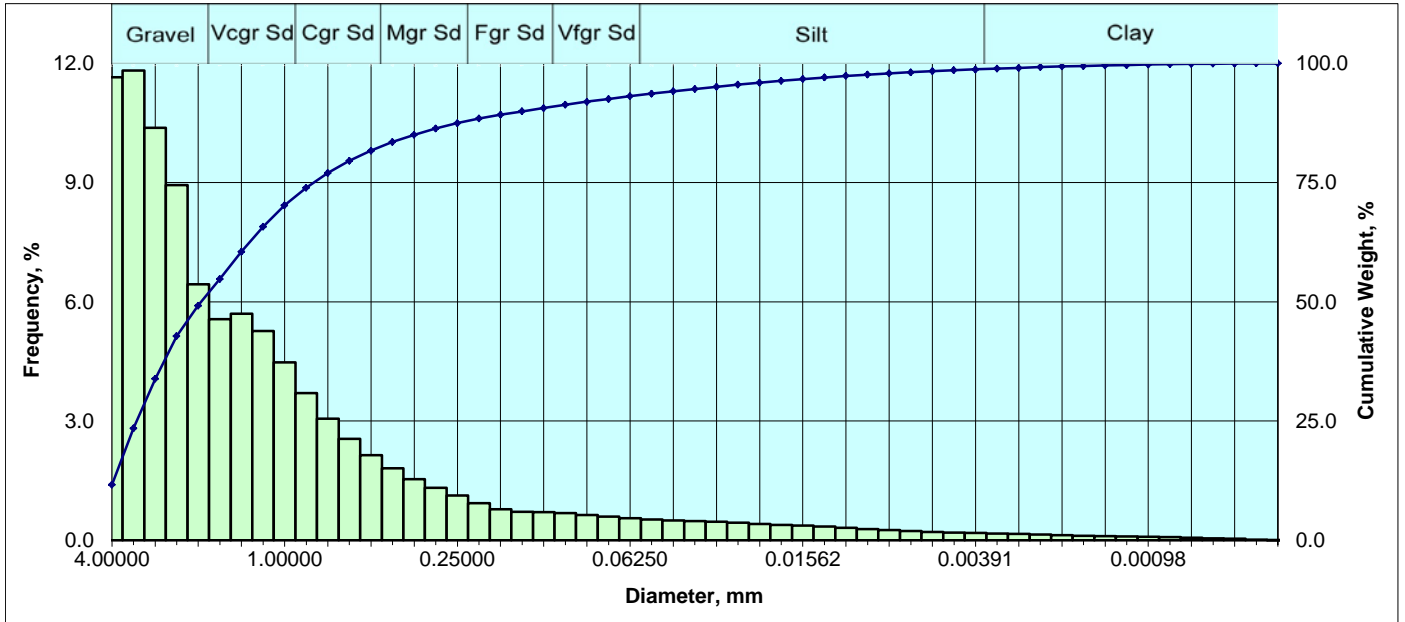


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	7.502	7.50
	6	0.132425	3.36359	-1.75	5.131	12.63
	7	0.111355	2.82843	-1.50	6.329	18.96
	8	0.093638	2.37841	-1.25	7.527	26.49
	10	0.078740	2.00000	-1.00	7.885	34.37
V Crse Sand	12	0.066212	1.68179	-0.75	6.273	40.65
	14	0.055678	1.41421	-0.50	6.662	47.31
	16	0.046819	1.18921	-0.25	6.524	53.83
	18	0.039370	1.00000	0.00	5.916	59.75
Coarse Sand	20	0.033106	0.84090	0.25	5.155	64.90
	25	0.027839	0.70711	0.50	4.406	69.31
	30	0.023410	0.59460	0.75	3.784	73.09
	35	0.019685	0.50000	1.00	3.275	76.37
	40	0.016553	0.42045	1.25	2.802	79.17
Medium Sand	45	0.013919	0.35355	1.50	2.351	81.52
	50	0.011705	0.29730	1.75	1.972	83.49
	60	0.009843	0.25000	2.00	1.671	85.17
	70	0.008277	0.21022	2.25	1.419	86.58
Fine Sand	80	0.006960	0.17678	2.50	1.188	87.77
	100	0.005852	0.14865	2.75	0.983	88.76
	120	0.004921	0.12500	3.00	0.837	89.59
	140	0.004138	0.10511	3.25	0.759	90.35
V. Fine Sand	170	0.003480	0.08839	3.50	0.715	91.07
	200	0.002926	0.07433	3.75	0.654	91.72
	230	0.002461	0.06250	4.00	0.560	92.28
	270	0.002069	0.05256	4.25	0.468	92.75
	325	0.001740	0.04419	4.50	0.423	93.17
	400	0.001463	0.03716	4.75	0.419	93.59
	450	0.001230	0.03125	5.00	0.421	94.01
	500	0.001035	0.02628	5.25	0.407	94.42
Silt	635	0.000870	0.02210	5.50	0.388	94.81
		0.000732	0.01858	5.75	0.384	95.19
		0.000615	0.01562	6.00	0.390	95.58
		0.000517	0.01314	6.25	0.388	95.97
		0.000435	0.01105	6.50	0.366	96.33
		0.000366	0.00929	6.75	0.339	96.67
		0.000308	0.00781	7.00	0.316	96.99
		0.000259	0.00657	7.25	0.299	97.29
		0.000217	0.00552	7.50	0.287	97.58
		0.000183	0.00465	7.75	0.277	97.85
		0.000154	0.00391	8.00	0.269	98.12
		0.000129	0.00328	8.25	0.259	98.38
		0.000109	0.00276	8.50	0.244	98.62
		0.000091	0.00232	8.75	0.225	98.85
	Clay		0.000077	0.00195	9.00	0.204
		0.000065	0.00164	9.25	0.182	99.24
		0.000054	0.00138	9.50	0.160	99.40
		0.000046	0.00116	9.75	0.141	99.54
		0.000038	0.00098	10.00	0.123	99.66
		0.000032	0.00082	10.25	0.106	99.76
		0.000027	0.00069	10.50	0.087	99.85
		0.000023	0.00058	10.75	0.068	99.92
		0.000019	0.00049	11.00	0.048	99.97
		0.000016	0.00041	11.25	0.026	99.99
		0.000015	0.00038	11.50	0.006	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0520	0.0520	0.0520	
(mm)	1.3214	1.3214	1.3214	
Mean	Very coarse sand sized			
(in)	0.0592	0.0367	0.0413	
(mm)	1.5035	0.9334	1.0481	
Sorting	V. Poor			
	2.139	1.722	2.098	
Skewness	Strongly fine skewed			
	0.873	1.126	0.383	
Kurtosis	Very leptokurtic			
	0.270	1.372	1.526	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
34.37	57.91	5.84	1.88	7.72
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2300	5.8427	-2.5466	
10	0.1453	3.6902	-1.8837	
16	0.1212	3.0789	-1.6224	
25	0.0971	2.4674	-1.3030	
30	0.0870	2.2099	-1.1440	
50	0.0520	1.3214	-0.4021	
60	0.0391	0.9922	0.0113	
75	0.0212	0.5395	0.8902	
84	0.0111	0.2830	1.8212	
90	0.0045	0.1143	3.1289	
95	0.0008	0.0203	5.6205	



Sieve and Laser Particle Size Analysis

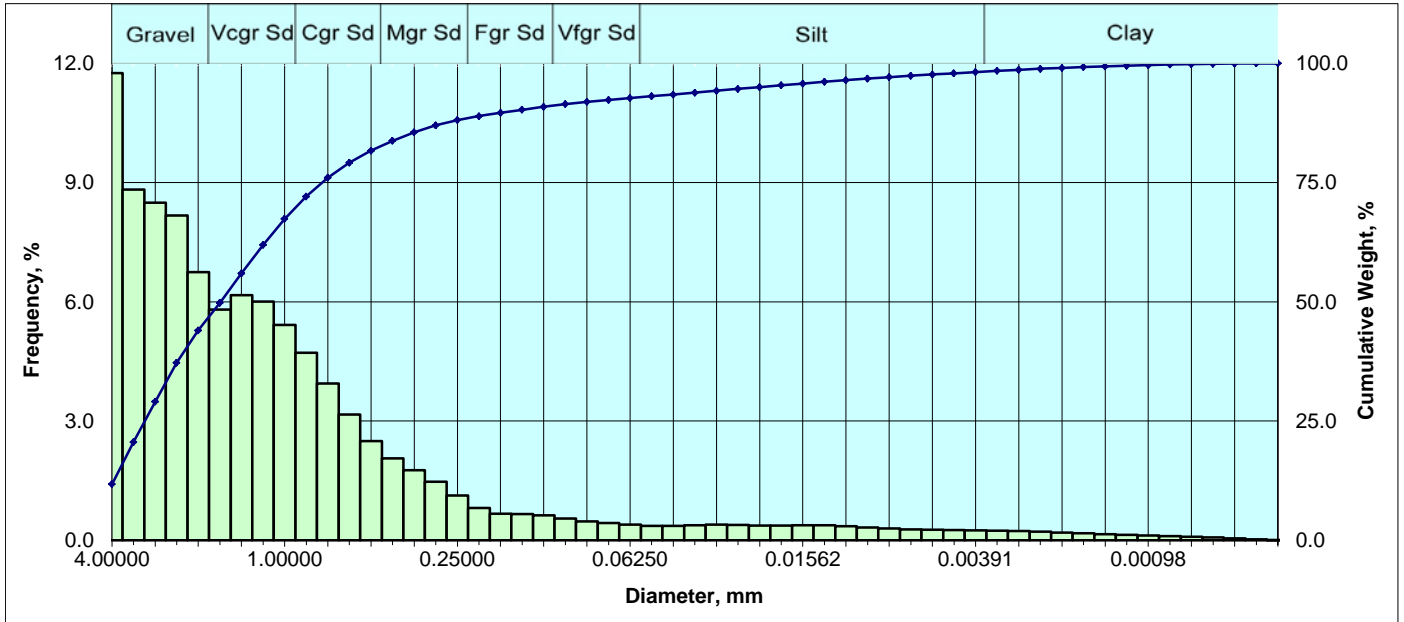


Particle Size Distribution							
	Diameter			Weight %			
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]		
Granule	5	0.157480	4.00000	-2.00	11.647	11.65	
	6	0.132425	3.36359	-1.75	11.821	23.47	
	7	0.111355	2.82843	-1.50	10.380	33.85	
	8	0.093638	2.37841	-1.25	8.939	42.79	
	10	0.078740	2.00000	-1.00	6.438	49.23	
V Crse Sand	12	0.066212	1.68179	-0.75	5.567	54.79	
	14	0.055678	1.41421	-0.50	5.697	60.49	
	16	0.046819	1.18921	-0.25	5.266	65.76	
	18	0.039370	1.00000	0.00	4.478	70.24	
Coarse Sand	20	0.033106	0.84090	0.25	3.702	73.94	
	25	0.027839	0.70711	0.50	3.059	77.00	
	30	0.023410	0.59460	0.75	2.554	79.55	
	35	0.019685	0.50000	1.00	2.144	81.69	
	40	0.016553	0.42045	1.25	1.809	83.50	
Medium Sand	45	0.013919	0.35355	1.50	1.536	85.04	
	50	0.011705	0.29730	1.75	1.323	86.36	
	60	0.009843	0.25000	2.00	1.130	87.49	
	70	0.008277	0.21022	2.25	0.937	88.43	
Fine Sand	80	0.006960	0.17678	2.50	0.784	89.21	
	100	0.005852	0.14865	2.75	0.719	89.93	
	120	0.004921	0.12500	3.00	0.706	90.64	
	140	0.004138	0.10511	3.25	0.683	91.32	
V. Fine Sand	170	0.003480	0.08839	3.50	0.640	91.96	
	200	0.002926	0.07433	3.75	0.596	92.56	
	230	0.002461	0.06250	4.00	0.559	93.12	
	270	0.002069	0.05256	4.25	0.527	93.64	
	325	0.001740	0.04419	4.50	0.502	94.15	
	400	0.001463	0.03716	4.75	0.483	94.63	
	450	0.001230	0.03125	5.00	0.465	95.09	
Silt	500	0.001035	0.02628	5.25	0.440	95.53	
	635	0.000870	0.02210	5.50	0.411	95.95	
		0.000732	0.01858	5.75	0.387	96.33	
		0.000615	0.01562	6.00	0.370	96.70	
		0.000517	0.01314	6.25	0.349	97.05	
		0.000435	0.01105	6.50	0.318	97.37	
		0.000366	0.00929	6.75	0.284	97.65	
		0.000308	0.00781	7.00	0.255	97.91	
		0.000259	0.00657	7.25	0.231	98.14	
		0.000217	0.00552	7.50	0.212	98.35	
		0.000183	0.00465	7.75	0.197	98.55	
		0.000154	0.00391	8.00	0.184	98.73	
	Clay		0.000129	0.00328	8.25	0.171	98.90
			0.000109	0.00276	8.50	0.158	99.06
			0.000091	0.00232	8.75	0.144	99.21
		0.000077	0.00195	9.00	0.130	99.34	
		0.000065	0.00164	9.25	0.117	99.45	
		0.000054	0.00138	9.50	0.106	99.56	
		0.000046	0.00116	9.75	0.096	99.66	
		0.000038	0.00098	10.00	0.087	99.74	
		0.000032	0.00082	10.25	0.077	99.82	
		0.000027	0.00069	10.50	0.066	99.89	
		0.000023	0.00058	10.75	0.052	99.94	
		0.000019	0.00049	11.00	0.037	99.98	
		0.000016	0.00041	11.25	0.020	100.00	
		0.000015	0.00038	11.50	0.005	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0770	0.0770	0.0770	
(mm)	1.9558	1.9558	1.9558	
Mean	Very coarse sand sized			
(in)	0.0803	0.0482	0.0564	
(mm)	2.0395	1.2255	1.4321	
Sorting	Poor			
	2.033	1.620	1.989	
Skewness	Strongly fine skewed			
	0.826	1.248	0.468	
Kurtosis	Very leptokurtic			
	0.269	1.403	1.558	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
49.23	43.89	5.62	1.27	6.88
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2816	7.1532	-2.8386	
10	0.1882	4.7815	-2.2575	
16	0.1483	3.7657	-1.9129	
25	0.1293	3.2847	-1.7157	
30	0.1192	3.0269	-1.5978	
50	0.0770	1.9558	-0.9678	
60	0.0566	1.4373	-0.5233	
75	0.0313	0.7944	0.3321	
84	0.0157	0.3988	1.3262	
90	0.0058	0.1464	2.7721	
95	0.0013	0.0324	4.9458	



Sieve and Laser Particle Size Analysis

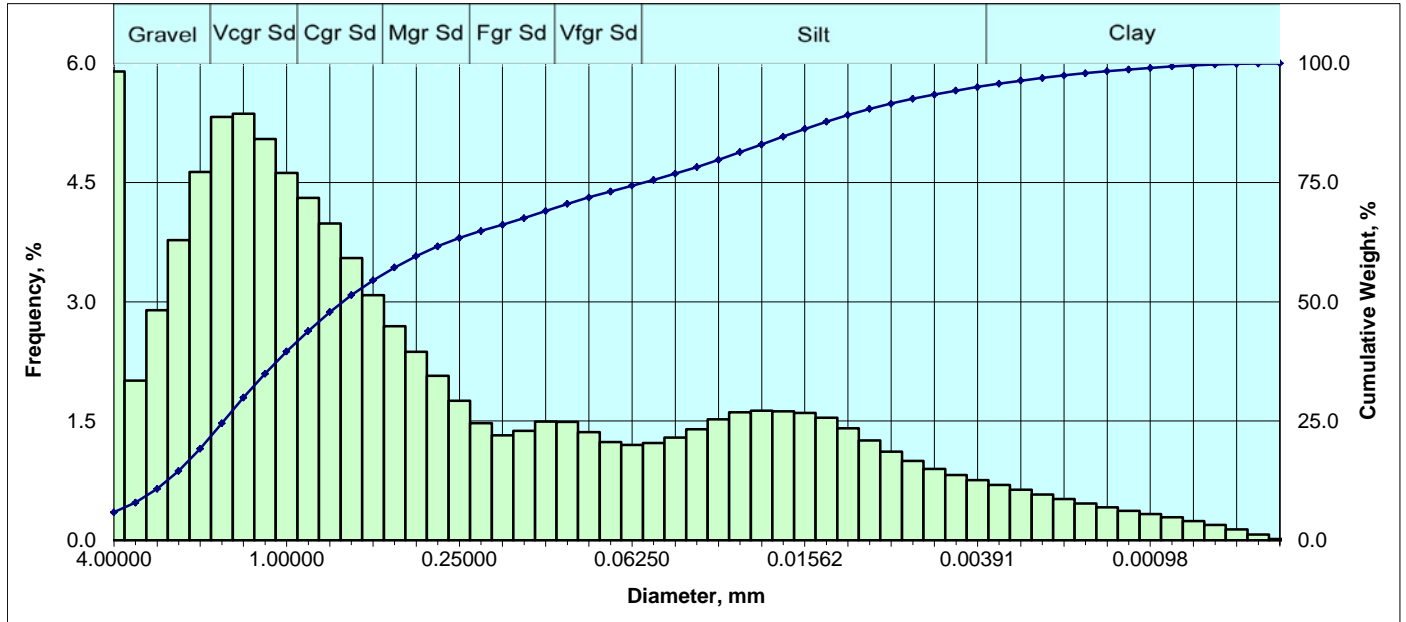


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	11.753	11.75
	6	0.132425	3.36359	-1.75	8.821	20.57
	7	0.111355	2.82843	-1.50	8.496	29.07
	8	0.093638	2.37841	-1.25	8.171	37.24
	10	0.078740	2.00000	-1.00	6.745	43.99
V Crse Sand	12	0.066212	1.68179	-0.75	5.807	49.79
	14	0.055678	1.41421	-0.50	6.167	55.96
	16	0.046819	1.18921	-0.25	6.004	61.96
	18	0.039370	1.00000	0.00	5.420	67.38
Coarse Sand	20	0.033106	0.84090	0.25	4.715	72.10
	25	0.027839	0.70711	0.50	3.943	76.04
	30	0.023410	0.59460	0.75	3.162	79.20
	35	0.019685	0.50000	1.00	2.495	81.70
	40	0.016553	0.42045	1.25	2.060	83.76
Medium Sand	45	0.013919	0.35355	1.50	1.767	85.53
	50	0.011705	0.29730	1.75	1.475	87.00
	60	0.009843	0.25000	2.00	1.124	88.12
	70	0.008277	0.21022	2.25	0.816	88.94
Fine Sand	80	0.006960	0.17678	2.50	0.669	89.61
	100	0.005852	0.14865	2.75	0.657	90.27
	120	0.004921	0.12500	3.00	0.628	90.89
	140	0.004138	0.10511	3.25	0.547	91.44
V. Fine Sand	170	0.003480	0.08839	3.50	0.477	91.92
	200	0.002926	0.07433	3.75	0.435	92.35
	230	0.002461	0.06250	4.00	0.399	92.75
	270	0.002069	0.05256	4.25	0.365	93.12
	325	0.001740	0.04419	4.50	0.361	93.48
	400	0.001463	0.03716	4.75	0.382	93.86
	450	0.001230	0.03125	5.00	0.397	94.26
Silt	500	0.001035	0.02628	5.25	0.388	94.65
	635	0.000870	0.02210	5.50	0.372	95.02
		0.000732	0.01858	5.75	0.372	95.39
		0.000615	0.01562	6.00	0.381	95.77
		0.000517	0.01314	6.25	0.377	96.15
		0.000435	0.01105	6.50	0.352	96.50
		0.000366	0.00929	6.75	0.321	96.82
		0.000308	0.00781	7.00	0.296	97.12
		0.000259	0.00657	7.25	0.278	97.39
		0.000217	0.00552	7.50	0.267	97.66
		0.000183	0.00465	7.75	0.259	97.92
		0.000154	0.00391	8.00	0.254	98.17
	Clay		0.000129	0.00328	8.25	0.245
		0.000109	0.00276	8.50	0.233	98.65
		0.000091	0.00232	8.75	0.215	98.87
		0.000077	0.00195	9.00	0.195	99.06
		0.000065	0.00164	9.25	0.174	99.24
		0.000054	0.00138	9.50	0.154	99.39
		0.000046	0.00116	9.75	0.137	99.53
		0.000038	0.00098	10.00	0.121	99.65
		0.000032	0.00082	10.25	0.106	99.75
		0.000027	0.00069	10.50	0.090	99.84
		0.000023	0.00058	10.75	0.071	99.92
		0.000019	0.00049	11.00	0.051	99.97
		0.000016	0.00041	11.25	0.027	99.99
		0.000015	0.00038	11.50	0.007	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0659	0.0659	0.0659	
(mm)	1.6728	1.6728	1.6728	
Mean	Very coarse sand sized			
(in)	0.0753	0.0485	0.0537	
(mm)	1.9136	1.2326	1.3646	
Sorting	V. Poor			
	2.038	1.583	2.054	
Skewness	Strongly fine skewed			
	0.905	1.304	0.387	
Kurtosis	Very leptokurtic			
	0.251	1.631	1.661	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
43.99	48.77	5.42	1.83	7.25
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2825	7.1746	-2.8429	
10	0.1899	4.8242	-2.2703	
16	0.1454	3.6936	-1.8850	
25	0.1214	3.0848	-1.6252	
30	0.1093	2.7772	-1.4736	
50	0.0659	1.6728	-0.7422	
60	0.0497	1.2628	-0.3366	
75	0.0292	0.7424	0.4297	
84	0.0162	0.4113	1.2817	
90	0.0063	0.1601	2.6433	
95	0.0009	0.0223	5.4874	



Sieve and Laser Particle Size Analysis

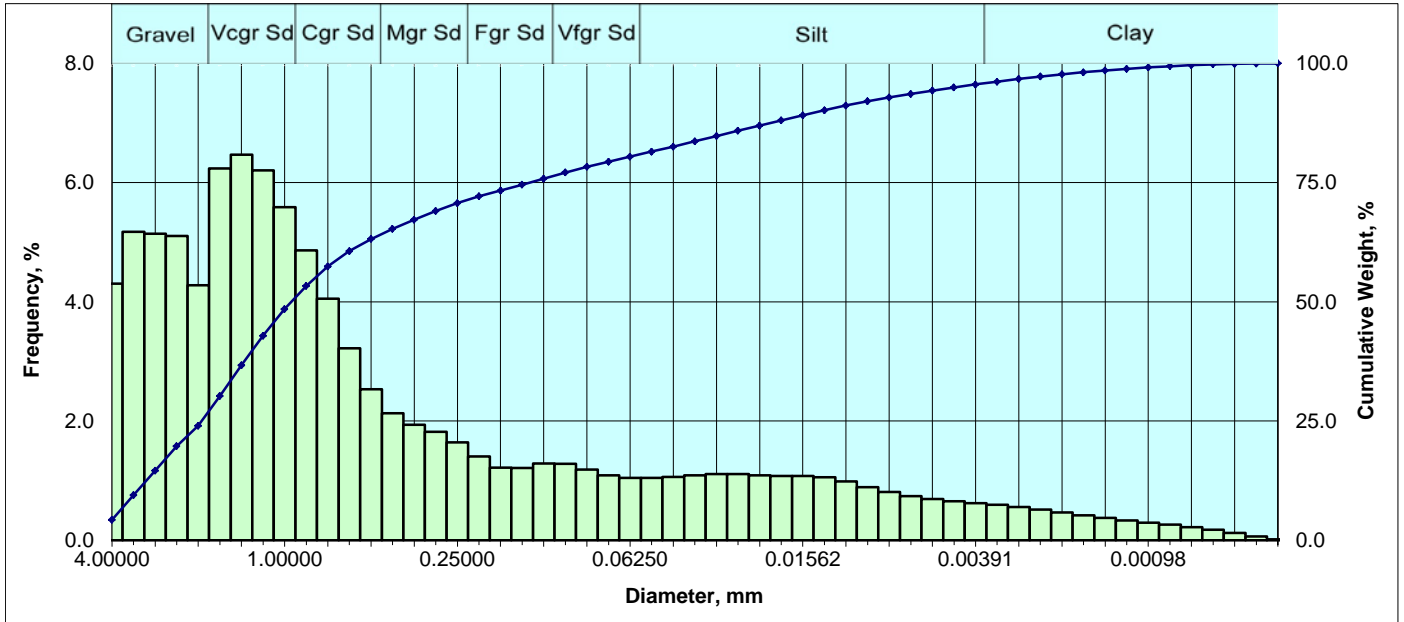


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	5.897	5.90
	6	0.132425	3.36359	-1.75	2.009	7.91
	7	0.111355	2.82843	-1.50	2.893	10.80
	8	0.093638	2.37841	-1.25	3.777	14.58
	10	0.078740	2.00000	-1.00	4.632	19.21
V Crse Sand	12	0.066212	1.68179	-0.75	5.327	24.54
	14	0.055678	1.41421	-0.50	5.366	29.90
	16	0.046819	1.18921	-0.25	5.047	34.95
	18	0.039370	1.00000	0.00	4.623	39.57
Coarse Sand	20	0.033106	0.84090	0.25	4.309	43.88
	25	0.027839	0.70711	0.50	3.986	47.87
	30	0.023410	0.59460	0.75	3.553	51.42
	35	0.019685	0.50000	1.00	3.082	54.50
Medium Sand	40	0.016553	0.42045	1.25	2.693	57.19
	45	0.013919	0.35355	1.50	2.372	59.56
	50	0.011705	0.29730	1.75	2.069	61.63
	60	0.009843	0.25000	2.00	1.757	63.39
Fine Sand	70	0.008277	0.21022	2.25	1.474	64.87
	80	0.006960	0.17678	2.50	1.321	66.19
	100	0.005852	0.14865	2.75	1.375	67.56
	120	0.004921	0.12500	3.00	1.495	69.06
V. Fine Sand	140	0.004138	0.10511	3.25	1.491	70.55
	170	0.003480	0.08839	3.50	1.361	71.91
	200	0.002926	0.07433	3.75	1.238	73.15
	230	0.002461	0.06250	4.00	1.199	74.35
	Silt	270	0.002069	0.05256	4.25	1.223
325		0.001740	0.04419	4.50	1.293	76.86
400		0.001463	0.03716	4.75	1.397	78.26
450		0.001230	0.03125	5.00	1.523	79.78
500		0.001035	0.02628	5.25	1.610	81.39
635		0.000870	0.02210	5.50	1.632	83.02
		0.000732	0.01858	5.75	1.624	84.65
		0.000615	0.01562	6.00	1.604	86.25
		0.000517	0.01314	6.25	1.541	87.79
		0.000435	0.01105	6.50	1.409	89.20
		0.000366	0.00929	6.75	1.256	90.46
		0.000308	0.00781	7.00	1.115	91.57
		0.000259	0.00657	7.25	0.997	92.57
Clay		0.000217	0.00552	7.50	0.900	93.47
		0.000183	0.00465	7.75	0.820	94.29
		0.000154	0.00391	8.00	0.756	95.04
		0.000129	0.00328	8.25	0.696	95.74
		0.000109	0.00276	8.50	0.637	96.38
		0.000091	0.00232	8.75	0.577	96.95
		0.000077	0.00195	9.00	0.518	97.47
		0.000065	0.00164	9.25	0.463	97.94
		0.000054	0.00138	9.50	0.413	98.35
		0.000046	0.00116	9.75	0.371	98.72
		0.000038	0.00098	10.00	0.329	99.05
	0.000032	0.00082	10.25	0.289	99.34	
	0.000027	0.00069	10.50	0.243	99.58	
	0.000023	0.00058	10.75	0.192	99.77	
	0.000019	0.00049	11.00	0.136	99.91	
	0.000016	0.00041	11.25	0.073	99.98	
	0.000015	0.00038	11.50	0.018	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Coarse sand sized			
(in)	0.0252	0.0252	0.0252	
(mm)	0.6395	0.6395	0.6395	
Mean	Medium sand sized			
(in)	0.0338	0.0084	0.0121	
(mm)	0.8579	0.2126	0.3069	
Sorting	V. Poor			
	5.386	3.411	3.260	
Skewness	Strongly fine skewed			
	0.482	0.648	0.448	
Kurtosis	Platykurtic			
	0.270	0.504	0.865	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
19.21	55.14	20.70	4.96	25.65
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.1906	4.8405	-2.2752	
10	0.1172	2.9762	-1.5735	
16	0.0891	2.2621	-1.1776	
25	0.0653	1.6586	-0.7300	
30	0.0555	1.4098	-0.4955	
50	0.0252	0.6395	0.6450	
60	0.0135	0.3417	1.5491	
75	0.0023	0.0572	4.1284	
84	0.0008	0.0200	5.6452	
90	0.0004	0.0099	6.6541	
95	0.0002	0.0039	7.9842	



Sieve and Laser Particle Size Analysis

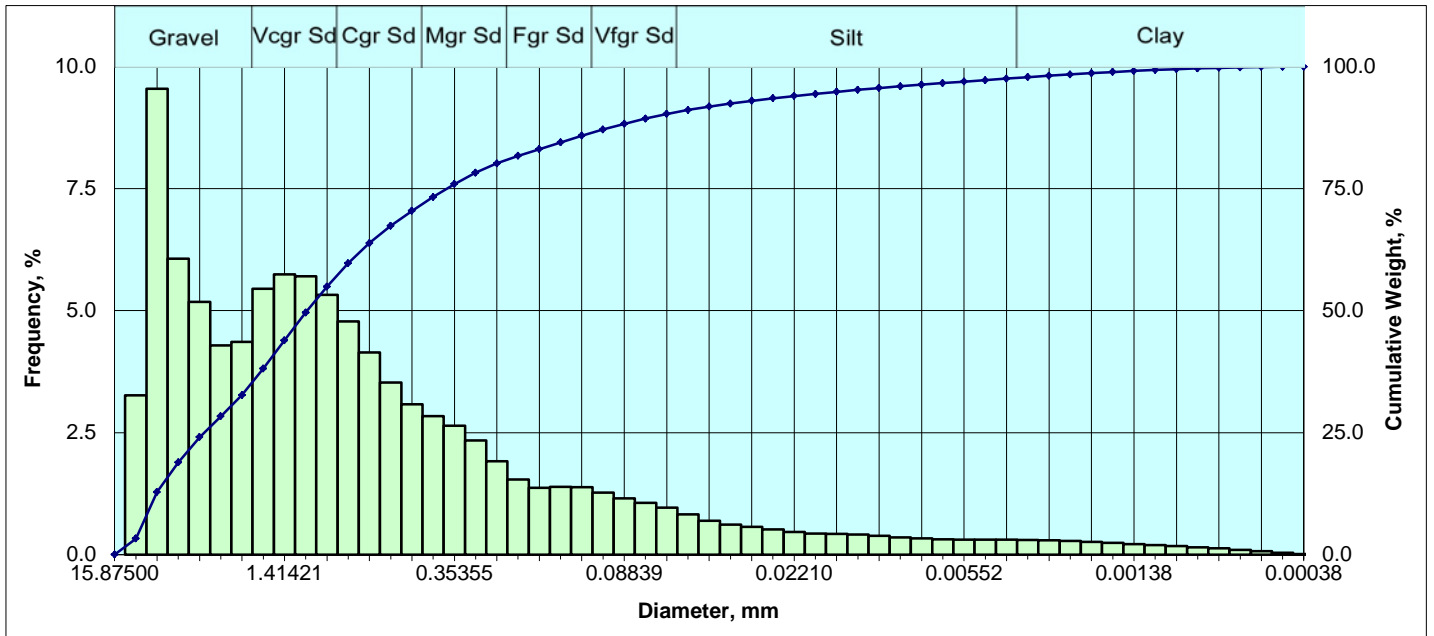


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	4.306	4.31
	6	0.132425	3.36359	-1.75	5.177	9.48
	7	0.111355	2.82843	-1.50	5.140	14.62
	8	0.093638	2.37841	-1.25	5.103	19.73
	10	0.078740	2.00000	-1.00	4.278	24.00
V Crse Sand	12	0.066212	1.68179	-0.75	6.236	30.24
	14	0.055678	1.41421	-0.50	6.466	36.71
	16	0.046819	1.18921	-0.25	6.207	42.91
	18	0.039370	1.00000	0.00	5.589	48.50
Coarse Sand	20	0.033106	0.84090	0.25	4.866	53.37
	25	0.027839	0.70711	0.50	4.053	57.42
	30	0.023410	0.59460	0.75	3.219	60.64
	35	0.019685	0.50000	1.00	2.533	63.17
Medium Sand	40	0.016553	0.42045	1.25	2.133	65.30
	45	0.013919	0.35355	1.50	1.938	67.24
	50	0.011705	0.29730	1.75	1.818	69.06
	60	0.009843	0.25000	2.00	1.645	70.71
Fine Sand	70	0.008277	0.21022	2.25	1.406	72.11
	80	0.006960	0.17678	2.50	1.221	73.33
	100	0.005852	0.14865	2.75	1.213	74.55
	120	0.004921	0.12500	3.00	1.287	75.83
V. Fine Sand	140	0.004138	0.10511	3.25	1.283	77.12
	170	0.003480	0.08839	3.50	1.188	78.30
	200	0.002926	0.07433	3.75	1.092	79.40
	230	0.002461	0.06250	4.00	1.048	80.44
	Silt	270	0.002069	0.05256	4.25	1.045
325		0.001740	0.04419	4.50	1.065	82.55
400		0.001463	0.03716	4.75	1.088	83.64
450		0.001230	0.03125	5.00	1.111	84.75
500		0.001035	0.02628	5.25	1.113	85.87
635		0.000870	0.02210	5.50	1.092	86.96
		0.000732	0.01858	5.75	1.079	88.04
		0.000615	0.01562	6.00	1.079	89.12
		0.000517	0.01314	6.25	1.060	90.18
		0.000435	0.01105	6.50	0.986	91.16
		0.000366	0.00929	6.75	0.893	92.05
		0.000308	0.00781	7.00	0.809	92.86
Clay		0.000259	0.00657	7.25	0.743	93.61
		0.000217	0.00552	7.50	0.693	94.30
		0.000183	0.00465	7.75	0.655	94.95
		0.000154	0.00391	8.00	0.625	95.58
		0.000129	0.00328	8.25	0.594	96.17
		0.000109	0.00276	8.50	0.557	96.73
		0.000091	0.00232	8.75	0.513	97.24
		0.000077	0.00195	9.00	0.466	97.71
		0.000065	0.00164	9.25	0.418	98.13
		0.000054	0.00138	9.50	0.374	98.50
		0.000046	0.00116	9.75	0.335	98.84
		0.000038	0.00098	10.00	0.298	99.14
		0.000032	0.00082	10.25	0.262	99.40
		0.000027	0.00069	10.50	0.221	99.62
		0.000023	0.00058	10.75	0.175	99.79
	0.000019	0.00049	11.00	0.124	99.92	
	0.000016	0.00041	11.25	0.067	99.98	
	0.000015	0.00038	11.50	0.016	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Coarse sand sized			
(in)	0.0374	0.0374	0.0374	
(mm)	0.9510	0.9510	0.9510	
Mean	Medium sand sized			
(in)	0.0411	0.0122	0.0177	
(mm)	1.0447	0.3089	0.4494	
Sorting	V. Poor			
	3.727	3.131	3.041	
Skewness	Strongly fine skewed			
	0.550	0.903	0.549	
Kurtosis	Mesokurtic			
	0.274	0.555	1.051	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
24.00	56.44	15.14	4.42	19.56
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.1541	3.9146	-1.9689	
10	0.1303	3.3097	-1.7267	
16	0.1066	2.7069	-1.4367	
25	0.0767	1.9492	-0.9629	
30	0.0667	1.6940	-0.7604	
50	0.0374	0.9510	0.0725	
60	0.0243	0.6169	0.6969	
75	0.0055	0.1403	2.8332	
84	0.0014	0.0353	4.8260	
90	0.0005	0.0136	6.2054	
95	0.0002	0.0046	7.7667	



Sieve and Laser Particle Size Analysis

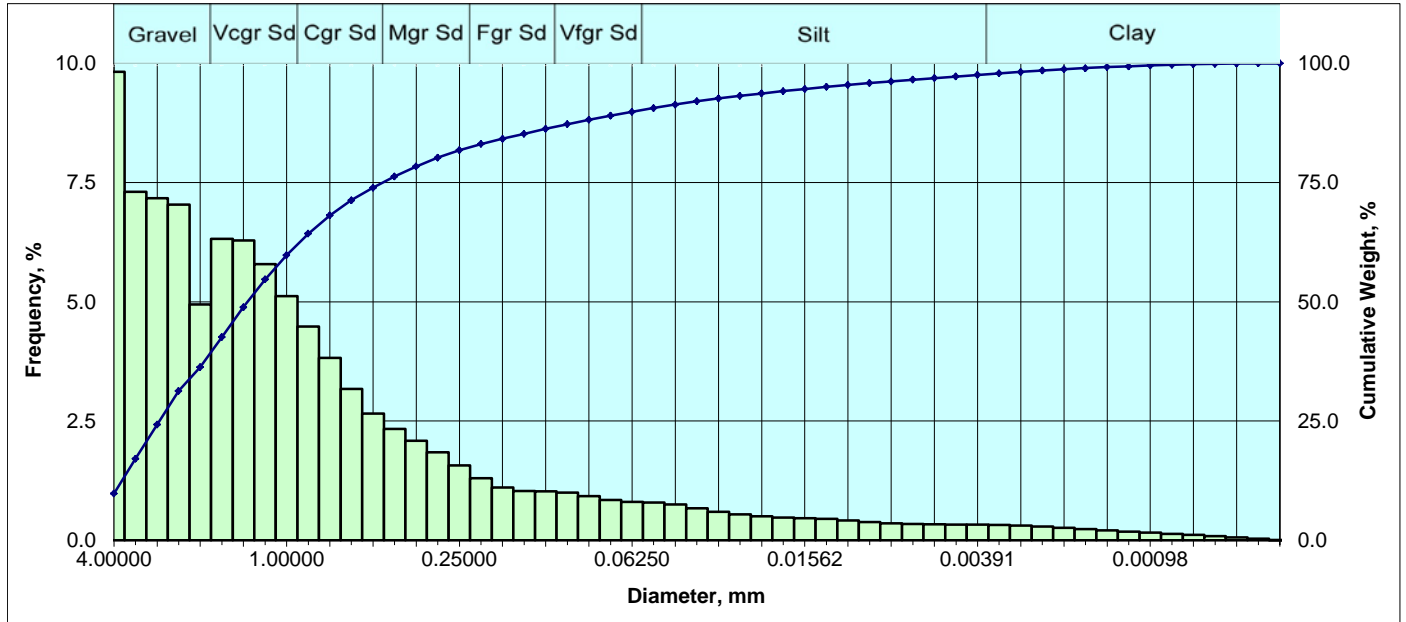


	Particle Size Distribution						
	Diameter				Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]	
Granule		0.625000	15.87500	-3.99	0.000	0.000	
		0.375000	9.525000	-3.25	3.264	3.264	
	5	0.157480	4.00000	-2.00	9.549	12.813	
	6	0.132425	3.36359	-1.75	6.067	18.880	
	7	0.111355	2.82843	-1.50	5.178	24.057	
V Crse Sand	8	0.093638	2.37841	-1.25	4.288	28.345	
	10	0.078740	2.00000	-1.00	4.361	32.706	
	12	0.066212	1.68179	-0.75	5.447	38.153	
	14	0.055678	1.41421	-0.50	5.747	43.901	
	16	0.046819	1.18921	-0.25	5.708	49.609	
Coarse Sand	18	0.039370	1.00000	0.00	5.326	54.935	
	20	0.033106	0.84090	0.25	4.780	59.715	
	25	0.027839	0.70711	0.50	4.140	63.856	
	30	0.023410	0.59460	0.75	3.525	67.380	
	35	0.019685	0.50000	1.00	3.081	70.461	
Medium Sand	40	0.016553	0.42045	1.25	2.840	73.301	
	45	0.013919	0.35355	1.50	2.642	75.943	
	50	0.011705	0.29730	1.75	2.337	78.279	
	60	0.009843	0.25000	2.00	1.915	80.194	
	70	0.008277	0.21022	2.25	1.539	81.733	
Fine Sand	80	0.006960	0.17678	2.50	1.369	83.102	
	100	0.005852	0.14865	2.75	1.391	84.493	
	120	0.004921	0.12500	3.00	1.383	85.876	
	140	0.004138	0.10511	3.25	1.273	87.148	
	170	0.003480	0.08839	3.50	1.151	88.299	
V. Fine Sand	200	0.002926	0.07433	3.75	1.063	89.362	
	230	0.002461	0.06250	4.00	0.964	90.325	
	270	0.002069	0.05256	4.25	0.826	91.151	
	325	0.001740	0.04419	4.50	0.695	91.847	
	400	0.001463	0.03716	4.75	0.615	92.462	
Silt	450	0.001230	0.03125	5.00	0.566	93.028	
	500	0.001035	0.02628	5.25	0.514	93.542	
	635	0.000870	0.02210	5.50	0.462	94.003	
		0.000732	0.01858	5.75	0.431	94.434	
		0.000615	0.01562	6.00	0.421	94.855	
		0.000517	0.01314	6.25	0.410	95.265	
		0.000435	0.01105	6.50	0.382	95.647	
		0.000366	0.00929	6.75	0.352	95.999	
		0.000308	0.00781	7.00	0.330	96.329	
		0.000259	0.00657	7.25	0.315	96.644	
		0.000217	0.00552	7.50	0.307	96.951	
		0.000183	0.00465	7.75	0.304	97.255	
		0.000154	0.00391	8.00	0.303	97.558	
	Clay		0.000129	0.00328	8.25	0.299	97.857
			0.000109	0.00276	8.50	0.291	98.148
		0.000091	0.00232	8.75	0.277	98.425	
		0.000077	0.00195	9.00	0.259	98.683	
		0.000065	0.00164	9.25	0.238	98.921	
		0.000054	0.00138	9.50	0.217	99.138	
		0.000046	0.00116	9.75	0.196	99.334	
		0.000038	0.00098	10.00	0.174	99.508	
		0.000032	0.00082	10.25	0.151	99.659	
		0.000027	0.00069	10.50	0.126	99.786	
		0.000023	0.00058	10.75	0.099	99.885	
		0.000019	0.00049	11.00	0.069	99.954	
		0.000016	0.00041	11.25	0.037	99.991	
		0.000015	0.00038	11.50	0.009	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0463	0.0463	0.0463	
(mm)	1.1753	1.1753	1.1753	
Mean	Coarse sand sized			
(in)	0.0612	0.0300	0.0347	
(mm)	1.5535	0.7625	0.8808	
Sorting	V. Poor			
	2.689	2.265	2.523	
Skewness	Strongly fine skewed			
	0.864	0.763	0.326	
Kurtosis	Lepokurtic			
	0.211	1.025	1.317	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
32.71	57.62	7.23	2.44	9.67
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3354	8.5204	-3.0909	
10	0.2215	5.6273	-2.4925	
16	0.1443	3.6657	-1.8741	
25	0.1075	2.7295	-1.4486	
30	0.0880	2.2348	-1.1602	
50	0.0463	1.1753	-0.2330	
60	0.0327	0.8317	0.2659	
75	0.0149	0.3774	1.4058	
84	0.0062	0.1586	2.6563	
90	0.0026	0.0665	3.9106	
95	0.0006	0.0147	6.0836	



Sieve and Laser Particle Size Analysis

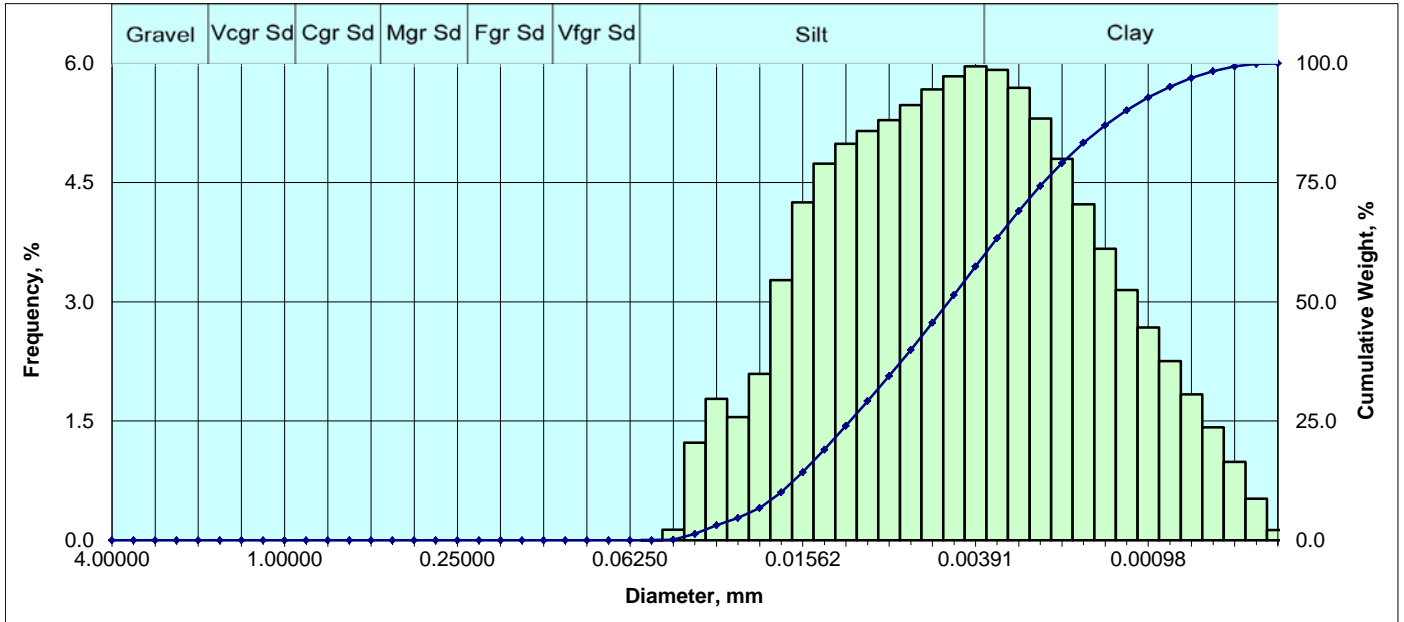


Particle Size Distribution							
	Diameter				Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]	
Granule	5	0.157480	4.00000	-2.00	9.824	9.82	
	6	0.132425	3.36359	-1.75	7.306	17.13	
	7	0.111355	2.82843	-1.50	7.173	24.30	
	8	0.093638	2.37841	-1.25	7.040	31.34	
	10	0.078740	2.00000	-1.00	4.943	36.29	
V Crse Sand	12	0.066212	1.68179	-0.75	6.323	42.61	
	14	0.055678	1.41421	-0.50	6.286	48.90	
	16	0.046819	1.18921	-0.25	5.794	54.69	
	18	0.039370	1.00000	0.00	5.117	59.81	
Coarse Sand	20	0.033106	0.84090	0.25	4.480	64.29	
	25	0.027839	0.70711	0.50	3.828	68.11	
	30	0.023410	0.59460	0.75	3.177	71.29	
	35	0.019685	0.50000	1.00	2.659	73.95	
	40	0.016553	0.42045	1.25	2.335	76.29	
Medium Sand	45	0.013919	0.35355	1.50	2.090	78.38	
	50	0.011705	0.29730	1.75	1.842	80.22	
	60	0.009843	0.25000	2.00	1.568	81.79	
	70	0.008277	0.21022	2.25	1.305	83.09	
Fine Sand	80	0.006960	0.17678	2.50	1.110	84.20	
	100	0.005852	0.14865	2.75	1.033	85.23	
	120	0.004921	0.12500	3.00	1.025	86.26	
	140	0.004138	0.10511	3.25	0.998	87.26	
V. Fine Sand	170	0.003480	0.08839	3.50	0.923	88.18	
	200	0.002926	0.07433	3.75	0.846	89.03	
	230	0.002461	0.06250	4.00	0.808	89.83	
	270	0.002069	0.05256	4.25	0.790	90.62	
	325	0.001740	0.04419	4.50	0.750	91.37	
	400	0.001463	0.03716	4.75	0.673	92.05	
	450	0.001230	0.03125	5.00	0.599	92.65	
Silt	500	0.001035	0.02628	5.25	0.544	93.19	
	635	0.000870	0.02210	5.50	0.505	93.69	
		0.000732	0.01858	5.75	0.479	94.17	
		0.000615	0.01562	6.00	0.464	94.64	
		0.000517	0.01314	6.25	0.448	95.09	
		0.000435	0.01105	6.50	0.415	95.50	
		0.000366	0.00929	6.75	0.381	95.88	
		0.000308	0.00781	7.00	0.356	96.24	
		0.000259	0.00657	7.25	0.341	96.58	
		0.000217	0.00552	7.50	0.334	96.91	
		0.000183	0.00465	7.75	0.331	97.24	
		0.000154	0.00391	8.00	0.330	97.57	
	Clay		0.000129	0.00328	8.25	0.324	97.90
			0.000109	0.00276	8.50	0.311	98.21
			0.000091	0.00232	8.75	0.291	98.50
		0.000077	0.00195	9.00	0.265	98.76	
		0.000065	0.00164	9.25	0.237	99.00	
		0.000054	0.00138	9.50	0.210	99.21	
		0.000046	0.00116	9.75	0.184	99.40	
		0.000038	0.00098	10.00	0.160	99.56	
		0.000032	0.00082	10.25	0.138	99.69	
		0.000027	0.00069	10.50	0.114	99.81	
		0.000023	0.00058	10.75	0.089	99.90	
		0.000019	0.00049	11.00	0.062	99.96	
		0.000016	0.00041	11.25	0.033	99.99	
		0.000015	0.00038	11.50	0.008	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0540	0.0540	0.0540	
(mm)	1.3713	1.3713	1.3713	
Mean	Coarse sand sized			
(in)	0.0639	0.0313	0.0376	
(mm)	1.6241	0.7956	0.9539	
Sorting	V. Poor			
	2.449	2.121	2.416	
Skewness	Strongly fine skewed			
	0.829	1.028	0.429	
Kurtosis	Lepokurtic			
	0.296	1.108	1.419	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
36.29	53.55	7.74	2.43	10.17
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2643	6.7130	-2.7470	
10	0.1569	3.9847	-1.9945	
16	0.1363	3.4620	-1.7916	
25	0.1096	2.7839	-1.4771	
30	0.0970	2.4643	-1.3012	
50	0.0540	1.3713	-0.4556	
60	0.0391	0.9931	0.0100	
75	0.0183	0.4642	1.1071	
84	0.0072	0.1829	2.4513	
90	0.0024	0.0604	4.0490	
95	0.0005	0.0136	6.1989	



Sieve and Laser Particle Size Analysis

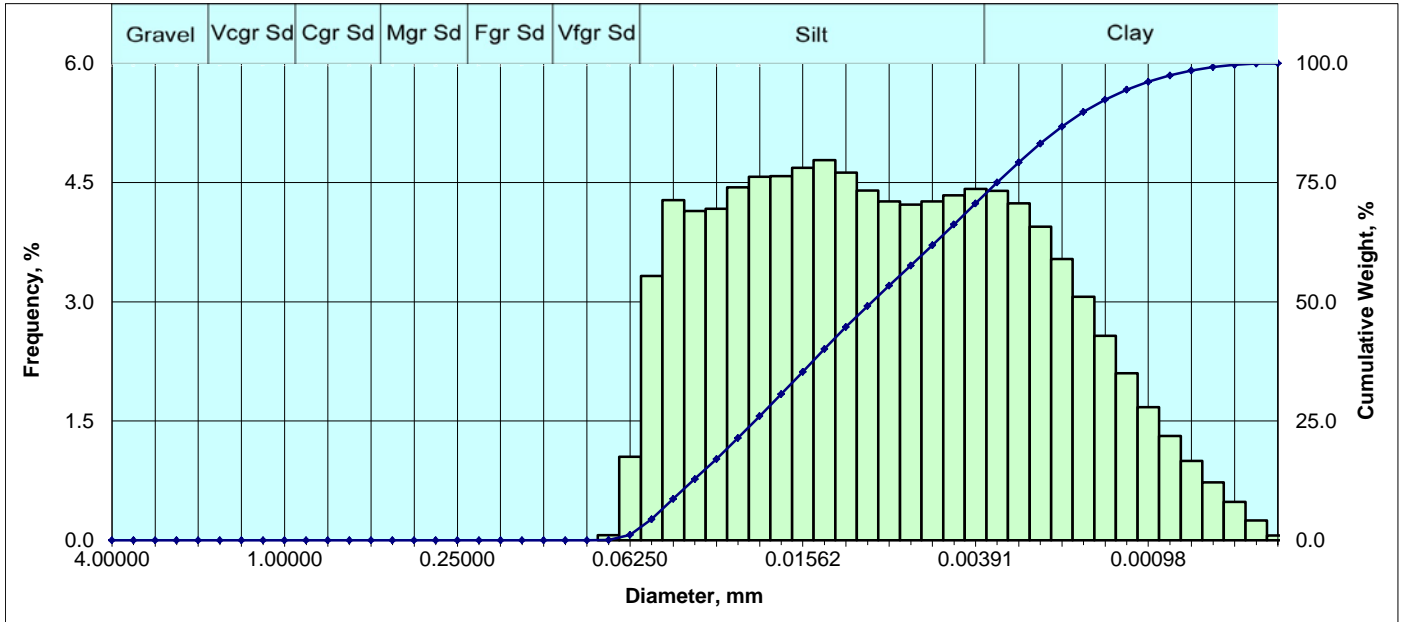


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	Silt	270	0.002069	0.05256	4.25	0.000
325		0.001740	0.04419	4.50	0.133	0.13
400		0.001463	0.03716	4.75	1.228	1.36
450		0.001230	0.03125	5.00	1.779	3.14
500		0.001035	0.02628	5.25	1.552	4.69
635		0.000870	0.02210	5.50	2.092	6.78
		0.000732	0.01858	5.75	3.272	10.06
		0.000615	0.01562	6.00	4.250	14.31
		0.000517	0.01314	6.25	4.739	19.05
		0.000435	0.01105	6.50	4.988	24.03
		0.000366	0.00929	6.75	5.147	29.18
		0.000308	0.00781	7.00	5.287	34.47
		0.000259	0.00657	7.25	5.473	39.94
	0.000217	0.00552	7.50	5.673	45.61	
	0.000183	0.00465	7.75	5.836	51.45	
	0.000154	0.00391	8.00	5.963	57.41	
Clay		0.000129	0.00328	8.25	5.918	63.33
		0.000109	0.00276	8.50	5.694	69.02
		0.000091	0.00232	8.75	5.306	74.33
		0.000077	0.00195	9.00	4.797	79.13
		0.000065	0.00164	9.25	4.228	83.36
		0.000054	0.00138	9.50	3.667	87.02
		0.000046	0.00116	9.75	3.149	90.17
		0.000038	0.00098	10.00	2.677	92.85
		0.000032	0.00082	10.25	2.254	95.10
		0.000027	0.00069	10.50	1.838	96.94
		0.000023	0.00058	10.75	1.420	98.36
		0.000019	0.00049	11.00	0.986	99.35
		0.000016	0.00041	11.25	0.526	99.87
		0.000015	0.00038	11.50	0.129	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0049	0.0049	0.0049	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0065	0.0049	0.0049	
Sorting	Poor			
	2.172	1.603	1.552	
Skewness	Near symmetrical			
	1.014	0.048	0.017	
Kurtosis	Mesokurtic			
	0.242	0.545	0.907	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	57.41	42.59	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0010	0.0257	5.2842	
10	0.0007	0.0186	5.7453	
16	0.0006	0.0147	6.0845	
25	0.0004	0.0107	6.5438	
30	0.0004	0.0091	6.7860	
50	0.0002	0.0049	7.6838	
60	0.0001	0.0036	8.1041	
75	0.0001	0.0023	8.7824	
84	0.0001	0.0016	9.2909	
90	0.0000	0.0012	9.7353	
95	0.0000	0.0008	10.2377	



Sieve and Laser Particle Size Analysis

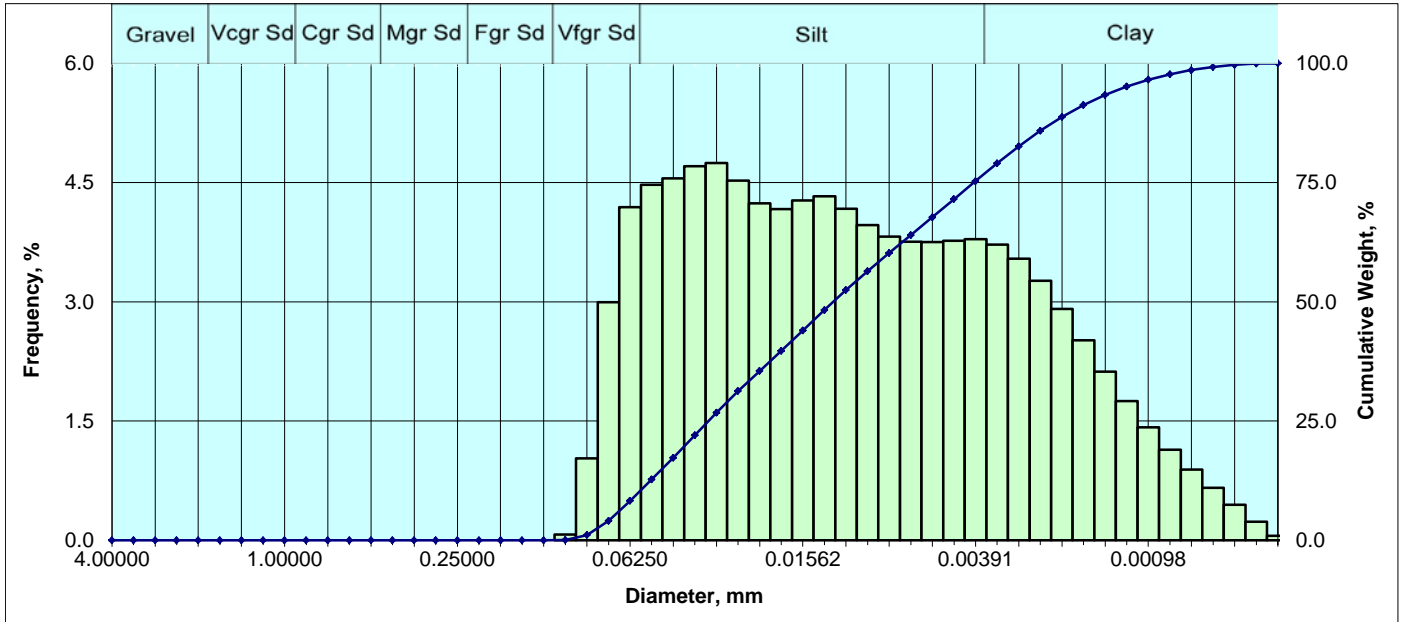


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.066	0.07
	230	0.002461	0.06250	4.00	1.051	1.12
Silt	270	0.002069	0.05256	4.25	3.326	4.44
	325	0.001740	0.04419	4.50	4.281	8.72
	400	0.001463	0.03716	4.75	4.143	12.87
	450	0.001230	0.03125	5.00	4.171	17.04
	500	0.001035	0.02628	5.25	4.441	21.48
	635	0.000870	0.02210	5.50	4.575	26.05
		0.000732	0.01858	5.75	4.581	30.64
		0.000615	0.01562	6.00	4.685	35.32
		0.000517	0.01314	6.25	4.783	40.10
		0.000435	0.01105	6.50	4.625	44.73
		0.000366	0.00929	6.75	4.398	49.13
	0.000308	0.00781	7.00	4.262	53.39	
	0.000259	0.00657	7.25	4.223	57.61	
	0.000217	0.00552	7.50	4.262	61.87	
	0.000183	0.00465	7.75	4.339	66.21	
	0.000154	0.00391	8.00	4.420	70.63	
Clay		0.000129	0.00328	8.25	4.396	75.03
		0.000109	0.00276	8.50	4.239	79.27
		0.000091	0.00232	8.75	3.945	83.21
		0.000077	0.00195	9.00	3.540	86.75
		0.000065	0.00164	9.25	3.065	89.82
		0.000054	0.00138	9.50	2.573	92.39
		0.000046	0.00116	9.75	2.100	94.49
		0.000038	0.00098	10.00	1.674	96.17
		0.000032	0.00082	10.25	1.313	97.48
		0.000027	0.00069	10.50	1.000	98.48
		0.000023	0.00058	10.75	0.728	99.21
		0.000019	0.00049	11.00	0.483	99.69
		0.000016	0.00041	11.25	0.250	99.94
		0.000015	0.00038	11.50	0.061	100.00

Sorting Statistics (Folk)							
Parameter	Trask	Inman	Folk				
Median	Silt sized						
(in)	0.0004	0.0004	0.0004				
(mm)	0.0090	0.0090	0.0090				
Mean	Silt sized						
(in)	0.0005	0.0003	0.0003				
(mm)	0.0132	0.0086	0.0087				
Sorting	Poor						
	2.648	1.934	1.807				
Skewness	Near symmetrical						
	0.969	0.131	0.064				
Kurtosis	Platykurtic						
	0.245	0.432	0.808				
Component Percentages							
Gravel	Sand	Silt	Clay	Silt + Clay			
0.00	1.12	69.52	29.37	98.88			
Percentile [Weight, %]				Particle Diameter			
	(in.)	(mm)	(phi)				
5	0.0020	0.0515	4.2802				
10	0.0017	0.0420	4.5725				
16	0.0013	0.0327	4.9336				
25	0.0009	0.0231	5.4384				
30	0.0008	0.0191	5.7126				
50	0.0004	0.0090	6.7978				
60	0.0002	0.0060	7.3847				
75	0.0001	0.0033	8.2481				
84	0.0001	0.0022	8.8019				
90	0.0001	0.0016	9.2662				
95	0.0000	0.0011	9.8214				



Sieve and Laser Particle Size Analysis

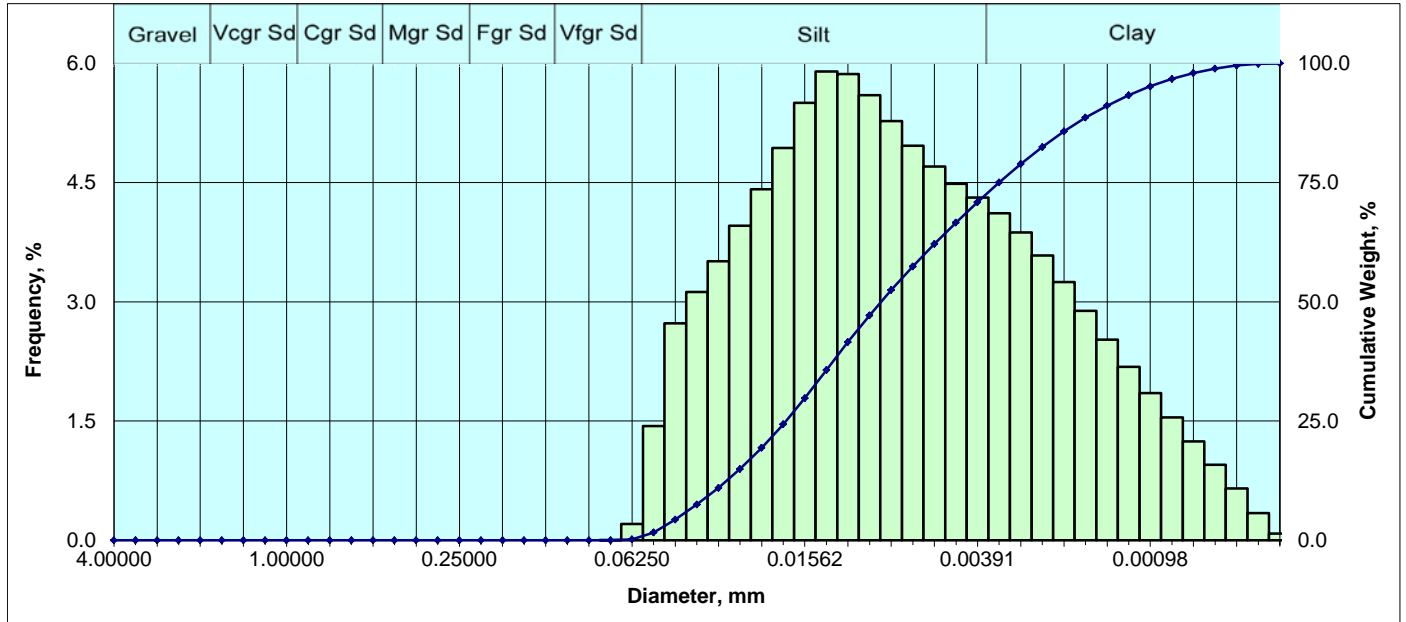


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.071	0.07
	170	0.003480	0.08839	3.50	1.031	1.10
	200	0.002926	0.07433	3.75	2.997	4.10
	230	0.002461	0.06250	4.00	4.190	8.29
	Silt	270	0.002069	0.05256	4.25	4.474
325		0.001740	0.04419	4.50	4.551	17.32
400		0.001463	0.03716	4.75	4.704	22.02
450		0.001230	0.03125	5.00	4.746	26.77
500		0.001035	0.02628	5.25	4.524	31.29
635		0.000870	0.02210	5.50	4.240	35.53
		0.000732	0.01858	5.75	4.167	39.70
		0.000615	0.01562	6.00	4.276	43.97
		0.000517	0.01314	6.25	4.327	48.30
		0.000435	0.01105	6.50	4.171	52.47
		0.000366	0.00929	6.75	3.966	56.44
Clay		0.000308	0.00781	7.00	3.822	60.26
		0.000259	0.00657	7.25	3.756	64.01
		0.000217	0.00552	7.50	3.752	67.77
		0.000183	0.00465	7.75	3.770	71.54
		0.000154	0.00391	8.00	3.789	75.32
		0.000129	0.00328	8.25	3.719	79.04
		0.000109	0.00276	8.50	3.543	82.59
		0.000091	0.00232	8.75	3.266	85.85
		0.000077	0.00195	9.00	2.912	88.76
		0.000065	0.00164	9.25	2.516	91.28
		0.000054	0.00138	9.50	2.121	93.40
	0.000046	0.00116	9.75	1.750	95.15	
	0.000038	0.00098	10.00	1.420	96.57	
	0.000032	0.00082	10.25	1.139	97.71	
	0.000027	0.00069	10.50	0.889	98.60	
	0.000023	0.00058	10.75	0.661	99.26	
	0.000019	0.00049	11.00	0.447	99.71	
	0.000016	0.00041	11.25	0.234	99.94	
	0.000015	0.00038	11.50	0.057	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0123	0.0123	0.0123	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0004	
(mm)	0.0187	0.0109	0.0114	
Sorting	Poor			
	2.903	2.090	1.943	
Skewness	Finely skewed			
	0.938	0.199	0.110	
Kurtosis	Platykurtic			
	0.259	0.418	0.790	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	8.29	67.03	24.68	91.71
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0028	0.0718	3.8002	
10	0.0023	0.0587	4.0905	
16	0.0018	0.0466	4.4232	
25	0.0013	0.0334	4.9019	
30	0.0011	0.0277	5.1742	
50	0.0005	0.0123	6.3468	
60	0.0003	0.0079	6.9817	
75	0.0002	0.0040	7.9768	
84	0.0001	0.0026	8.6029	
90	0.0001	0.0018	9.1173	
95	0.0000	0.0012	9.7264	



Sieve and Laser Particle Size Analysis

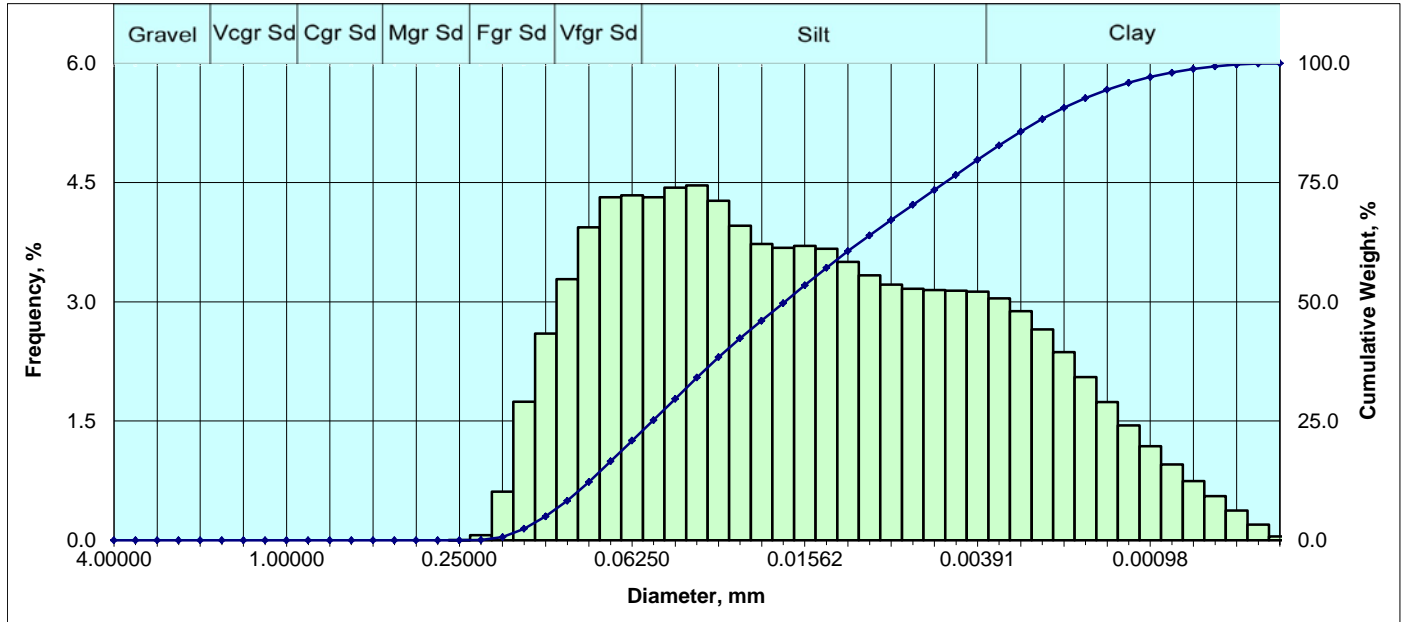


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.004	0.00
	230	0.002461	0.06250	4.00	0.205	0.21
	Silt	270	0.002069	0.05256	4.25	1.437
325		0.001740	0.04419	4.50	2.729	4.37
400		0.001463	0.03716	4.75	3.124	7.50
450		0.001230	0.03125	5.00	3.511	11.01
500		0.001035	0.02628	5.25	3.957	14.97
635		0.000870	0.02210	5.50	4.414	19.38
		0.000732	0.01858	5.75	4.935	24.32
		0.000615	0.01562	6.00	5.503	29.82
		0.000517	0.01314	6.25	5.899	35.72
		0.000435	0.01105	6.50	5.867	41.58
		0.000366	0.00929	6.75	5.599	47.18
		0.000308	0.00781	7.00	5.274	52.46
		0.000259	0.00657	7.25	4.965	57.42
	0.000217	0.00552	7.50	4.703	62.12	
	0.000183	0.00465	7.75	4.485	66.61	
	0.000154	0.00391	8.00	4.310	70.92	
Clay		0.000129	0.00328	8.25	4.113	75.03
		0.000109	0.00276	8.50	3.873	78.91
		0.000091	0.00232	8.75	3.582	82.49
		0.000077	0.00195	9.00	3.247	85.74
		0.000065	0.00164	9.25	2.886	88.62
		0.000054	0.00138	9.50	2.525	91.15
		0.000046	0.00116	9.75	2.181	93.33
		0.000038	0.00098	10.00	1.851	95.18
		0.000032	0.00082	10.25	1.546	96.73
		0.000027	0.00069	10.50	1.246	97.97
		0.000023	0.00058	10.75	0.949	98.92
		0.000019	0.00049	11.00	0.652	99.57
		0.000016	0.00041	11.25	0.344	99.92
		0.000015	0.00038	11.50	0.084	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0085	0.0085	0.0085
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0108	0.0074	0.0077
Sorting	Poor		
	2.353	1.778	1.711
Skewness	Finely skewed		
	0.911	0.215	0.128
Kurtosis	Mesokurtic		
	0.237	0.526	0.901
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	0.21	70.71	29.08
Percentile [Weight, %]			
	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0017	0.0428	4.5467
10	0.0013	0.0330	4.9236
16	0.0010	0.0253	5.3048
25	0.0007	0.0182	5.7788
30	0.0006	0.0155	6.0071
50	0.0003	0.0085	6.8781
60	0.0002	0.0060	7.3817
75	0.0001	0.0033	8.2478
84	0.0001	0.0022	8.8610
90	0.0001	0.0015	9.3810
95	0.0000	0.0010	9.9738



Sieve and Laser Particle Size Analysis

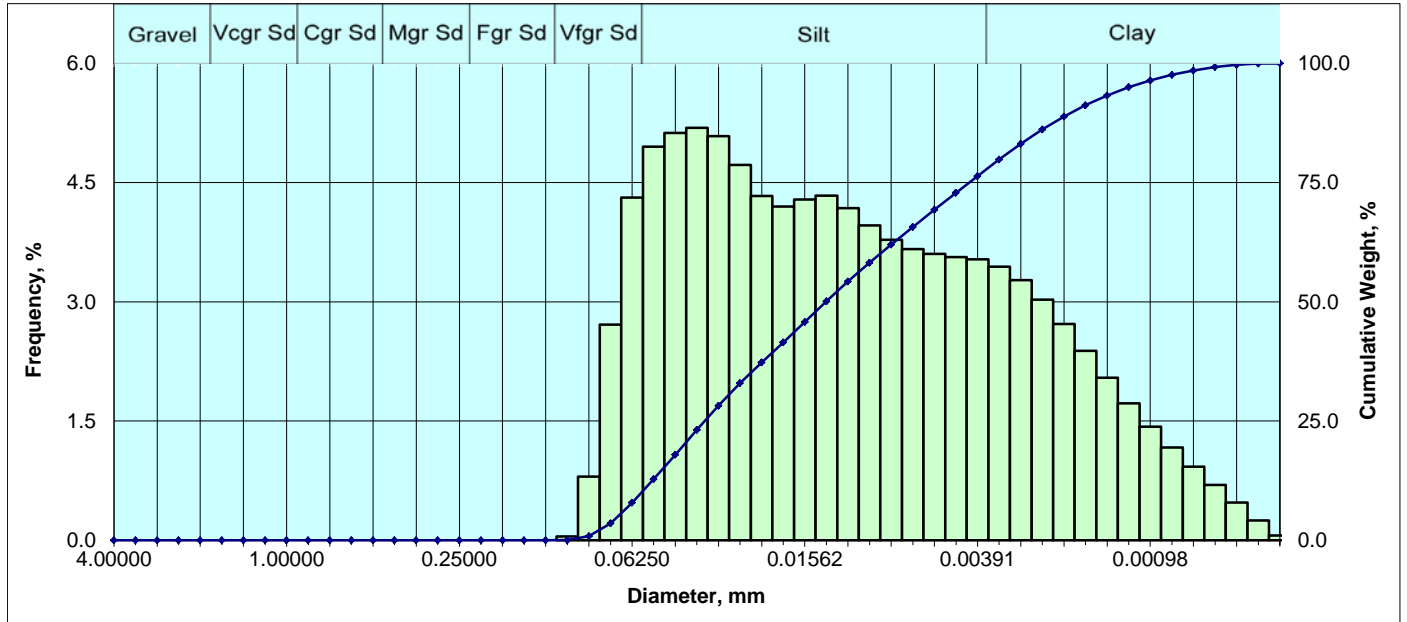


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
Medium Sand	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.001	0.00
	70	0.008277	0.21022	2.25	0.065	0.07
Fine Sand	80	0.006960	0.17678	2.50	0.613	0.68
	100	0.005852	0.14865	2.75	1.745	2.42
	120	0.004921	0.12500	3.00	2.601	5.02
	140	0.004138	0.10511	3.25	3.284	8.31
V. Fine Sand	170	0.003480	0.08839	3.50	3.938	12.25
	200	0.002926	0.07433	3.75	4.316	16.56
	230	0.002461	0.06250	4.00	4.341	20.90
	270	0.002069	0.05256	4.25	4.314	25.22
	325	0.001740	0.04419	4.50	4.435	29.65
Silt	400	0.001463	0.03716	4.75	4.464	34.12
	450	0.001230	0.03125	5.00	4.270	38.39
	500	0.001035	0.02628	5.25	3.957	42.34
	635	0.000870	0.02210	5.50	3.729	46.07
		0.000732	0.01858	5.75	3.678	49.75
		0.000615	0.01562	6.00	3.705	53.46
		0.000517	0.01314	6.25	3.666	57.12
		0.000435	0.01105	6.50	3.503	60.62
		0.000366	0.00929	6.75	3.332	63.96
		0.000308	0.00781	7.00	3.218	67.17
		0.000259	0.00657	7.25	3.165	70.34
		0.000217	0.00552	7.50	3.149	73.49
		0.000183	0.00465	7.75	3.142	76.63
	0.000154	0.00391	8.00	3.128	79.76	
Clay		0.000129	0.00328	8.25	3.044	82.80
		0.000109	0.00276	8.50	2.884	85.69
		0.000091	0.00232	8.75	2.651	88.34
		0.000077	0.00195	9.00	2.365	90.70
		0.000065	0.00164	9.25	2.052	92.75
		0.000054	0.00138	9.50	1.739	94.49
		0.000046	0.00116	9.75	1.446	95.94
		0.000038	0.00098	10.00	1.182	97.12
		0.000032	0.00082	10.25	0.953	98.08
		0.000027	0.00069	10.50	0.746	98.82
		0.000023	0.00058	10.75	0.557	99.38
		0.000019	0.00049	11.00	0.376	99.75
		0.000016	0.00041	11.25	0.197	99.95
		0.000015	0.00038	11.50	0.048	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0184	0.0184	0.0184	
Mean	Silt sized			
(in)	0.0011	0.0006	0.0006	
(mm)	0.0291	0.0153	0.0163	
Sorting	V. Poor			
	3.225	2.317	2.156	
Skewness	Finely skewed			
	0.895	0.226	0.137	
Kurtosis	Platykurtic			
	0.250	0.421	0.799	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	20.90	58.86	20.24	79.10
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0049	0.1252	2.9974	
10	0.0039	0.0979	3.3521	
16	0.0030	0.0762	3.7149	
25	0.0021	0.0531	4.2364	
30	0.0017	0.0436	4.5180	
50	0.0007	0.0184	5.7655	
60	0.0004	0.0114	6.4522	
75	0.0002	0.0051	7.6149	
84	0.0001	0.0031	8.3486	
90	0.0001	0.0021	8.9210	
95	0.0001	0.0013	9.5826	



Sieve and Laser Particle Size Analysis

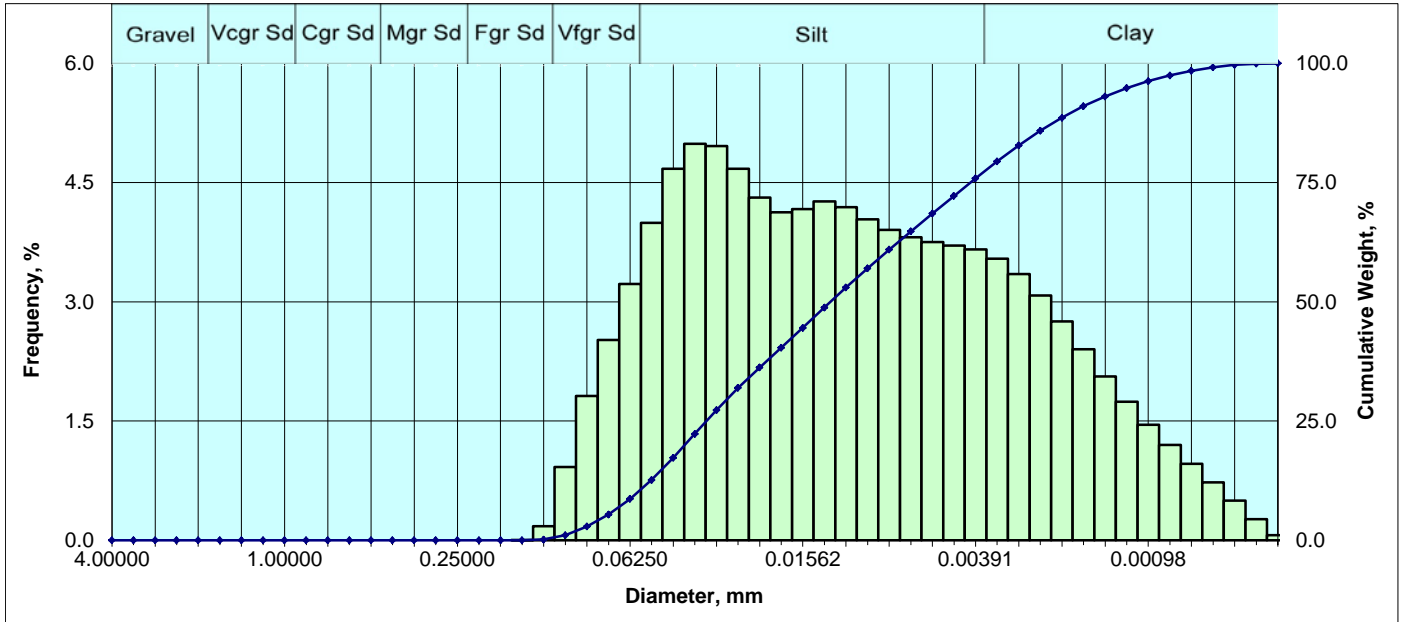


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.047	0.05
	170	0.003480	0.08839	3.50	0.803	0.85
	200	0.002926	0.07433	3.75	2.715	3.57
	230	0.002461	0.06250	4.00	4.310	7.87
Silt	270	0.002069	0.05256	4.25	4.951	12.83
	325	0.001740	0.04419	4.50	5.123	17.95
	400	0.001463	0.03716	4.75	5.189	23.14
	450	0.001230	0.03125	5.00	5.086	28.22
	500	0.001035	0.02628	5.25	4.721	32.95
	635	0.000870	0.02210	5.50	4.330	37.28
		0.000732	0.01858	5.75	4.200	41.47
		0.000615	0.01562	6.00	4.288	45.76
		0.000517	0.01314	6.25	4.334	50.10
		0.000435	0.01105	6.50	4.178	54.28
		0.000366	0.00929	6.75	3.960	58.24
	0.000308	0.00781	7.00	3.781	62.02	
	0.000259	0.00657	7.25	3.665	65.68	
	0.000217	0.00552	7.50	3.602	69.28	
	0.000183	0.00465	7.75	3.564	72.85	
	0.000154	0.00391	8.00	3.536	76.38	
Clay		0.000129	0.00328	8.25	3.443	79.83
		0.000109	0.00276	8.50	3.273	83.10
		0.000091	0.00232	8.75	3.026	86.13
		0.000077	0.00195	9.00	2.721	88.85
		0.000065	0.00164	9.25	2.382	91.23
		0.000054	0.00138	9.50	2.044	93.27
		0.000046	0.00116	9.75	1.723	95.00
		0.000038	0.00098	10.00	1.429	96.42
		0.000032	0.00082	10.25	1.168	97.59
		0.000027	0.00069	10.50	0.926	98.52
		0.000023	0.00058	10.75	0.697	99.22
		0.000019	0.00049	11.00	0.474	99.69
		0.000016	0.00041	11.25	0.250	99.94
		0.000015	0.00038	11.50	0.061	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0132	0.0132	0.0132	
Mean	Silt sized			
(in)	0.0008	0.0004	0.0005	
(mm)	0.0196	0.0112	0.0118	
Sorting	Poor			
	2.888	2.085	1.940	
Skewness	Finely skewed			
	0.918	0.262	0.150	
Kurtosis	Platykurtic			
	0.273	0.420	0.793	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	7.87	68.51	23.62	92.13
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0028	0.0704	3.8285	
10	0.0023	0.0582	4.1020	
16	0.0019	0.0474	4.3997	
25	0.0014	0.0350	4.8366	
30	0.0012	0.0294	5.0890	
50	0.0005	0.0132	6.2439	
60	0.0003	0.0086	6.8613	
75	0.0002	0.0042	7.8969	
84	0.0001	0.0026	8.5700	
90	0.0001	0.0018	9.1157	
95	0.0000	0.0012	9.7507	



Sieve and Laser Particle Size Analysis

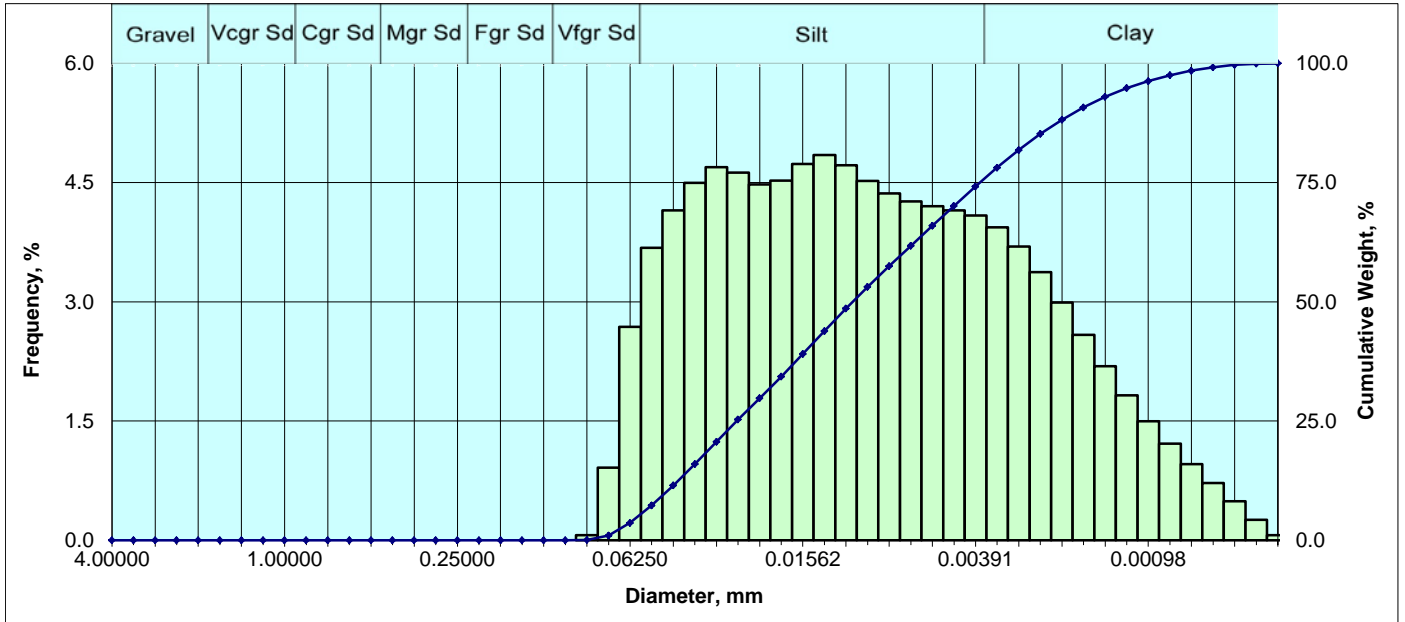


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.003	0.00
	120	0.004921	0.12500	3.00	0.176	0.18
V. Fine Sand	140	0.004138	0.10511	3.25	0.921	1.10
	170	0.003480	0.08839	3.50	1.814	2.91
	200	0.002926	0.07433	3.75	2.522	5.44
	230	0.002461	0.06250	4.00	3.226	8.66
	Silt	270	0.002069	0.05256	4.25	3.994
325		0.001740	0.04419	4.50	4.675	17.33
400		0.001463	0.03716	4.75	4.987	22.32
450		0.001230	0.03125	5.00	4.962	27.28
500		0.001035	0.02628	5.25	4.672	31.95
635		0.000870	0.02210	5.50	4.311	36.26
		0.000732	0.01858	5.75	4.125	40.39
		0.000615	0.01562	6.00	4.168	44.56
		0.000517	0.01314	6.25	4.264	48.82
		0.000435	0.01105	6.50	4.192	53.01
		0.000366	0.00929	6.75	4.037	57.05
		0.000308	0.00781	7.00	3.903	60.95
		0.000259	0.00657	7.25	3.811	64.76
	0.000217	0.00552	7.50	3.753	68.52	
	0.000183	0.00465	7.75	3.707	72.22	
	0.000154	0.00391	8.00	3.660	75.88	
Clay		0.000129	0.00328	8.25	3.544	79.43
		0.000109	0.00276	8.50	3.350	82.78
		0.000091	0.00232	8.75	3.079	85.86
		0.000077	0.00195	9.00	2.755	88.61
		0.000065	0.00164	9.25	2.405	91.02
		0.000054	0.00138	9.50	2.062	93.08
		0.000046	0.00116	9.75	1.744	94.82
		0.000038	0.00098	10.00	1.455	96.28
		0.000032	0.00082	10.25	1.201	97.48
		0.000027	0.00069	10.50	0.961	98.44
		0.000023	0.00058	10.75	0.730	99.17
		0.000019	0.00049	11.00	0.501	99.67
		0.000016	0.00041	11.25	0.265	99.94
		0.000015	0.00038	11.50	0.065	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0126	0.0126	0.0126	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0005	
(mm)	0.0190	0.0110	0.0115	
Sorting	Poor			
	2.884	2.085	1.963	
Skewness	Finely skewed			
	0.939	0.204	0.116	
Kurtosis	Platykurtic			
	0.260	0.457	0.815	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	8.66	67.22	24.12	91.34
Percentile [Weight, %]				
		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0030	0.0768	3.7036	
10	0.0023	0.0592	4.0790	
16	0.0018	0.0466	4.4243	
25	0.0013	0.0340	4.8797	
30	0.0011	0.0284	5.1402	
50	0.0005	0.0126	6.3161	
60	0.0003	0.0082	6.9348	
75	0.0002	0.0041	7.9355	
84	0.0001	0.0026	8.5941	
90	0.0001	0.0018	9.1388	
95	0.0000	0.0011	9.7782	



Sieve and Laser Particle Size Analysis

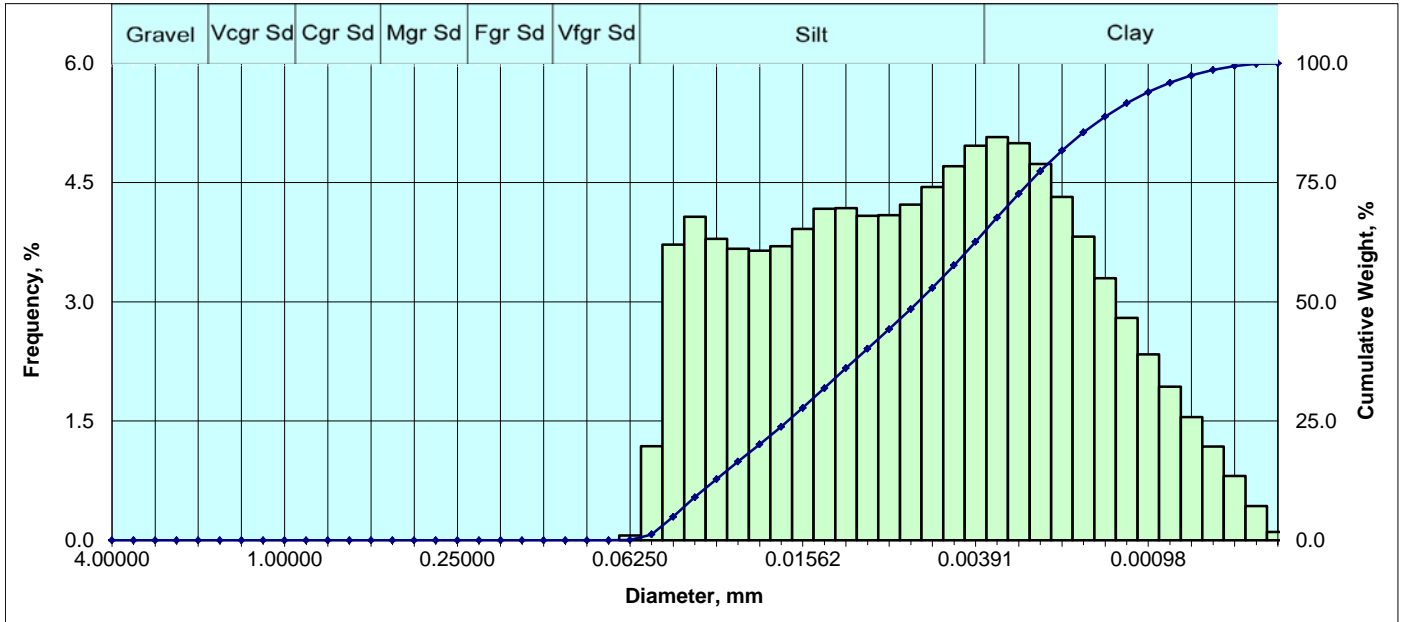


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.063	0.06
	200	0.002926	0.07433	3.75	0.916	0.98
	230	0.002461	0.06250	4.00	2.684	3.66
Silt	270	0.002069	0.05256	4.25	3.679	7.34
	325	0.001740	0.04419	4.50	4.151	11.49
	400	0.001463	0.03716	4.75	4.496	15.99
	450	0.001230	0.03125	5.00	4.695	20.68
	500	0.001035	0.02628	5.25	4.625	25.31
	635	0.000870	0.02210	5.50	4.476	29.78
		0.000732	0.01858	5.75	4.526	34.31
		0.000615	0.01562	6.00	4.735	39.05
		0.000517	0.01314	6.25	4.847	43.89
		0.000435	0.01105	6.50	4.718	48.61
		0.000366	0.00929	6.75	4.522	53.13
	0.000308	0.00781	7.00	4.365	57.50	
	0.000259	0.00657	7.25	4.264	61.76	
	0.000217	0.00552	7.50	4.203	65.96	
	0.000183	0.00465	7.75	4.149	70.11	
	0.000154	0.00391	8.00	4.086	74.20	
Clay		0.000129	0.00328	8.25	3.937	78.14
		0.000109	0.00276	8.50	3.696	81.83
		0.000091	0.00232	8.75	3.373	85.20
		0.000077	0.00195	9.00	2.992	88.20
		0.000065	0.00164	9.25	2.586	90.78
		0.000054	0.00138	9.50	2.190	92.97
		0.000046	0.00116	9.75	1.824	94.80
		0.000038	0.00098	10.00	1.498	96.29
		0.000032	0.00082	10.25	1.216	97.51
		0.000027	0.00069	10.50	0.959	98.47
		0.000023	0.00058	10.75	0.720	99.19
		0.000019	0.00049	11.00	0.490	99.68
		0.000016	0.00041	11.25	0.257	99.94
		0.000015	0.00038	11.50	0.063	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0105	0.0105	0.0105	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0152	0.0096	0.0099	
Sorting	Poor			
	2.653	1.953	1.839	
Skewness	Near symmetrical			
	0.954	0.185	0.097	
Kurtosis	Platykurtic			
	0.251	0.459	0.829	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	3.66	70.54	25.80	96.34
Percentile [Weight, %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0023	0.0589	4.0860	
10	0.0019	0.0472	4.4051	
16	0.0015	0.0371	4.7505	
25	0.0010	0.0266	5.2319	
30	0.0009	0.0219	5.5110	
50	0.0004	0.0105	6.5723	
60	0.0003	0.0071	7.1414	
75	0.0001	0.0038	8.0475	
84	0.0001	0.0025	8.6557	
90	0.0001	0.0017	9.1698	
95	0.0000	0.0011	9.7816	



Sieve and Laser Particle Size Analysis

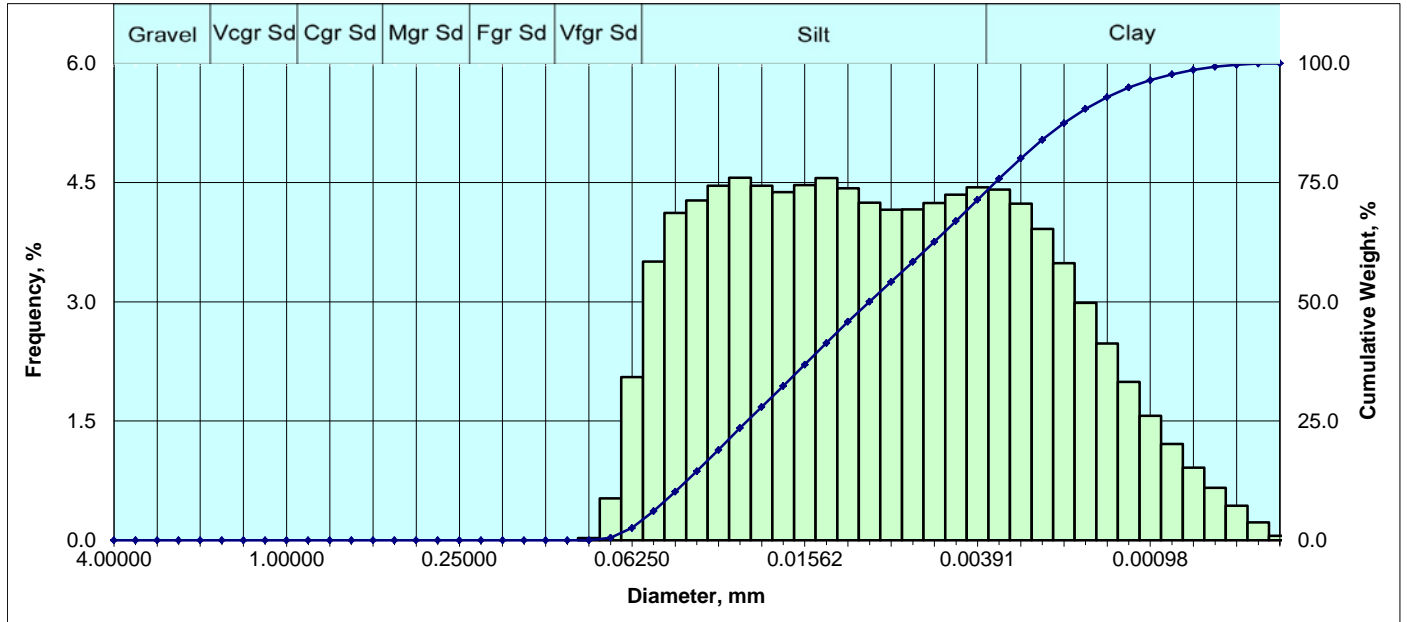


Particle Size Distribution					Weight %	
	Diameter				[Incl.]	[Cum.]
	[US Mesh]	[in.]	[mm]	[φ]		
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.062	0.06
	Silt	270	0.002069	0.05256	4.25	1.183
325		0.001740	0.04419	4.50	3.720	4.97
400		0.001463	0.03716	4.75	4.069	9.03
450		0.001230	0.03125	5.00	3.790	12.82
500		0.001035	0.02628	5.25	3.666	16.49
635		0.000870	0.02210	5.50	3.645	20.14
		0.000732	0.01858	5.75	3.700	23.84
		0.000615	0.01562	6.00	3.915	27.75
		0.000517	0.01314	6.25	4.171	31.92
		0.000435	0.01105	6.50	4.179	36.10
		0.000366	0.00929	6.75	4.084	40.18
		0.000308	0.00781	7.00	4.090	44.27
		0.000259	0.00657	7.25	4.225	48.50
	0.000217	0.00552	7.50	4.446	52.95	
	0.000183	0.00465	7.75	4.706	57.65	
	0.000154	0.00391	8.00	4.964	62.62	
Clay		0.000129	0.00328	8.25	5.072	67.69
		0.000109	0.00276	8.50	4.996	72.68
		0.000091	0.00232	8.75	4.733	77.42
		0.000077	0.00195	9.00	4.321	81.74
		0.000065	0.00164	9.25	3.820	85.56
		0.000054	0.00138	9.50	3.297	88.85
		0.000046	0.00116	9.75	2.798	91.65
		0.000038	0.00098	10.00	2.340	93.99
		0.000032	0.00082	10.25	1.934	95.93
		0.000027	0.00069	10.50	1.550	97.48
		0.000023	0.00058	10.75	1.180	98.66
		0.000019	0.00049	11.00	0.811	99.47
		0.000016	0.00041	11.25	0.429	99.90
		0.000015	0.00038	11.50	0.105	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0062	0.0062	0.0062	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0101	0.0069	0.0067	
Sorting	Poor			
	2.636	1.964	1.834	
Skewness	Near symmetrical			
	1.080	-0.008	-0.041	
Kurtosis	Platykurtic			
	0.221	0.431	0.824	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.06	62.55	37.38	99.94
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0017	0.0441	4.5019	
10	0.0014	0.0357	4.8097	
16	0.0011	0.0269	5.2139	
25	0.0007	0.0177	5.8199	
30	0.0006	0.0143	6.1294	
50	0.0002	0.0062	7.3296	
60	0.0002	0.0043	7.8629	
75	0.0001	0.0025	8.6170	
84	0.0001	0.0018	9.1428	
90	0.0001	0.0013	9.5972	
95	0.0000	0.0009	10.1249	



Sieve and Laser Particle Size Analysis

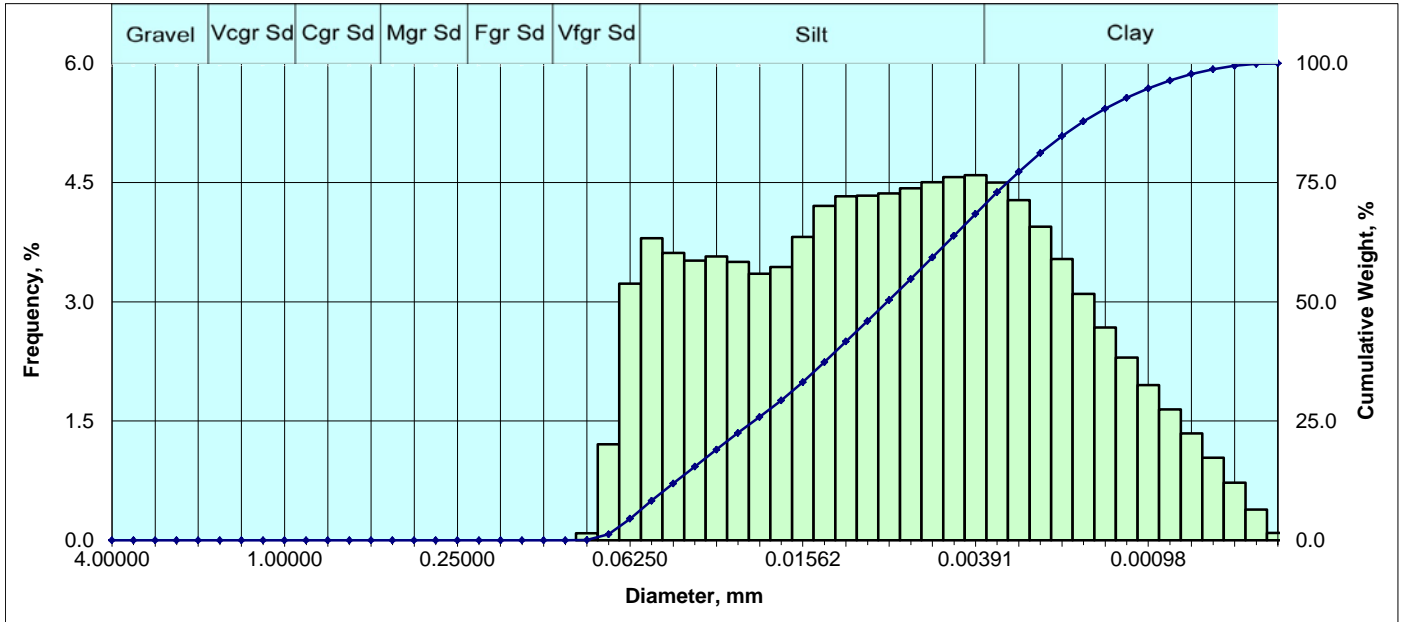


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.027	0.03
	200	0.002926	0.07433	3.75	0.527	0.55
Silt	230	0.002461	0.06250	4.00	2.055	2.61
	270	0.002069	0.05256	4.25	3.505	6.11
	325	0.001740	0.04419	4.50	4.120	10.23
	400	0.001463	0.03716	4.75	4.273	14.51
	450	0.001230	0.03125	5.00	4.459	18.97
	500	0.001035	0.02628	5.25	4.561	23.53
	635	0.000870	0.02210	5.50	4.461	27.99
		0.000732	0.01858	5.75	4.379	32.37
		0.000615	0.01562	6.00	4.469	36.84
		0.000517	0.01314	6.25	4.557	41.39
		0.000435	0.01105	6.50	4.427	45.82
		0.000366	0.00929	6.75	4.248	50.07
	0.000308	0.00781	7.00	4.158	54.23	
	0.000259	0.00657	7.25	4.164	58.39	
	0.000217	0.00552	7.50	4.243	62.63	
	0.000183	0.00465	7.75	4.347	66.98	
	0.000154	0.00391	8.00	4.441	71.42	
Clay		0.000129	0.00328	8.25	4.412	75.83
		0.000109	0.00276	8.50	4.237	80.07
		0.000091	0.00232	8.75	3.917	83.99
		0.000077	0.00195	9.00	3.485	87.47
		0.000065	0.00164	9.25	2.987	90.46
		0.000054	0.00138	9.50	2.478	92.94
		0.000046	0.00116	9.75	1.994	94.93
		0.000038	0.00098	10.00	1.568	96.50
		0.000032	0.00082	10.25	1.214	97.71
		0.000027	0.00069	10.50	0.914	98.63
		0.000023	0.00058	10.75	0.660	99.29
		0.000019	0.00049	11.00	0.434	99.72
		0.000016	0.00041	11.25	0.225	99.95
		0.000015	0.00038	11.50	0.055	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0093	0.0093	0.0093	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0142	0.0090	0.0091	
Sorting	Poor			
	2.705	1.961	1.828	
Skewness	Near symmetrical			
	0.988	0.111	0.050	
Kurtosis	Platykurtic			
	0.250	0.426	0.798	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	2.61	68.81	28.58	97.39
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0022	0.0557	4.1657	
10	0.0018	0.0447	4.4845	
16	0.0014	0.0352	4.8289	
25	0.0010	0.0249	5.3278	
30	0.0008	0.0205	5.6095	
50	0.0004	0.0093	6.7456	
60	0.0002	0.0062	7.3398	
75	0.0001	0.0034	8.1994	
84	0.0001	0.0023	8.7509	
90	0.0001	0.0017	9.2087	
95	0.0000	0.0012	9.7602	



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.088	0.09
	200	0.002926	0.07433	3.75	1.208	1.30
	230	0.002461	0.06250	4.00	3.227	4.52
	Silt	270	0.002069	0.05256	4.25	3.799
325		0.001740	0.04419	4.50	3.614	11.93
400		0.001463	0.03716	4.75	3.520	15.46
450		0.001230	0.03125	5.00	3.572	19.03
500		0.001035	0.02628	5.25	3.501	22.53
635		0.000870	0.02210	5.50	3.354	25.88
		0.000732	0.01858	5.75	3.439	29.32
		0.000615	0.01562	6.00	3.817	33.14
		0.000517	0.01314	6.25	4.207	37.34
		0.000435	0.01105	6.50	4.327	41.67
		0.000366	0.00929	6.75	4.336	46.01
		0.000308	0.00781	7.00	4.365	50.37
		0.000259	0.00657	7.25	4.428	54.80
		0.000217	0.00552	7.50	4.507	59.31
	0.000183	0.00465	7.75	4.568	63.87	
	0.000154	0.00391	8.00	4.595	68.47	
Clay		0.000129	0.00328	8.25	4.500	72.97
		0.000109	0.00276	8.50	4.279	77.25
		0.000091	0.00232	8.75	3.946	81.20
		0.000077	0.00195	9.00	3.539	84.73
		0.000065	0.00164	9.25	3.101	87.84
		0.000054	0.00138	9.50	2.679	90.51
		0.000046	0.00116	9.75	2.297	92.81
		0.000038	0.00098	10.00	1.953	94.77
		0.000032	0.00082	10.25	1.647	96.41
		0.000027	0.00069	10.50	1.345	97.76
		0.000023	0.00058	10.75	1.040	98.80
		0.000019	0.00049	11.00	0.724	99.52
		0.000016	0.00041	11.25	0.386	99.91
		0.000015	0.00038	11.50	0.094	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0079	0.0079	0.0079	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0003	
(mm)	0.0131	0.0086	0.0084	
Sorting	Poor			
	2.764	2.079	1.949	
Skewness	Near symmetrical			
	1.057	0.026	-0.018	
Kurtosis	Platykurtic			
	0.213	0.444	0.839	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	4.52	63.95	31.53	95.48
Percentile [Weight, %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0024	0.0613	4.0291	
10	0.0019	0.0487	4.3608	
16	0.0014	0.0363	4.7854	
25	0.0009	0.0232	5.4300	
30	0.0007	0.0181	5.7915	
50	0.0003	0.0079	6.9769	
60	0.0002	0.0054	7.5353	
75	0.0001	0.0030	8.3632	
84	0.0001	0.0020	8.9444	
90	0.0001	0.0014	9.4485	
95	0.0000	0.0010	10.0331	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 169 000 6943-038 (Task M22D)

CL File Number: 1800558

APPENDIX 5

Chain of Custody

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT RI Phase 3 DATE 2/8/18 FIELD PERSON# Amy Marion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY Core Lab

Sampler <i>Amy Marion</i>	Signature <i>Amy M</i>	Analysis Required														COMMENTS					
		SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)											
✓		PT-TBG1-66.0-66.5	2/6/18	1218	66.0-66.5	-	S	1	U	No	X										
✓		PT-TBG1-69.5-70.0		1229	69.5-70.0	-					X										* HOLD pending instruction by J. Donovan/Ramboll
✓		PT-TBG1-77.5-78.0		1235	77.5-78.0	-					X										
✓		PT-TBG1-87.5-89.0		1240	87.5-89.0	-					X										
✓		PT-TBG1-117.5-118.0		1243	117.5-118.0	-					X										
*		PT-TBG1-127.5-128.0		1251	127.5-128.0	-					X										marked 127.5-130
✓		PT-TBG1-139.5-140.0		1257	139.5-140.0	-					X										
✓		PT-TBG1-142.0-142.5		1316	142.0-142.5	-					X										
✓		PT-TBG1-144.5-145.0		1319	144.5-145.0	-					X										Order 1 of 5
✓		PT-TBG1-149.0-149.5		1330	149.0-149.5	-					X										
✓		PT-TBG1-159.5-160.0		1338	159.5-160.0	-					X										
✓		PT-TBG1-161.5-162.0		1342	161.5-162.0	-					X										
TOTAL																					

RELINQUISHED BY <i>Amy M</i> (FedEx)	TIME/DATE <u>2/8/18</u>	RECEIVED BY COMPANY <u>MIKE CARTER - CORE LAB</u>	TIME/DATE <u>2/9/18 1600</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

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UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT RI Phase 3 DATE 2/8/18 FIELD PERSON# Amy Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell/Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY CoreLab

Sampler Signature	Analysis Required													
	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	* HOLD				COMMENTS
<u>Amie Hinds</u>	<u>PT-TBGA-78.0-78.5</u>	<u>2/7/18</u>	<u>1443</u>	<u>78.0-78.5</u>	<u>1</u>	<u>G</u>	<u>1</u>	<u>U</u>	<u>No</u>	<u>X</u>				
	<u>PT-TBGA-86.0-86.5</u>		<u>1450</u>	<u>86.0-86.5</u>	<u>1</u>					<u>X</u>				
	<u>PT-TBGA-91.5-92.0</u>		<u>1458</u>	<u>91.5-92.0</u>	<u>1</u>					<u>X</u>				
	<u>PT-TBGA-111.0-111.5</u>		<u>1501</u>	<u>111.0-111.5</u>	<u>1</u>					<u>X</u>				<u>*HOLD pending instruction by J. Donovan/Ramboll</u>
	<u>PT-TBGA-120.0-120.5</u>		<u>1506</u>	<u>120.0-120.5</u>	<u>1</u>					<u>X</u>				
	<u>PT-TBGA-129.0-129.5</u>		<u>1510</u>	<u>129.0-129.5</u>	<u>1</u>					<u>X</u>				
	<u>PT-TBGA-139.0-139.5</u>		<u>1515</u>	<u>139.0-139.5</u>	<u>1</u>					<u>X</u>				
	<u>PT-TBGA-145.5-146.0</u>		<u>1519</u>	<u>145.5-146.0</u>	<u>1</u>					<u>X</u>				
	<u>PT-TBGA-151.5-152.0</u>		<u>1523</u>	<u>151.5-152.0</u>	<u>1</u>					<u>X</u>				<u>Cover 2 of 5</u>
	<u>PT-TBGA-10.5-10.8</u>		<u>1419</u>	<u>10.5-10.8</u>	<u>1</u>					<u>X</u>				
	<u>PT-TBGA-19.5-19.8</u>		<u>1421</u>	<u>19.5-19.8</u>	<u>1</u>					<u>X</u>				
	<u>PT-TBGA-30.5-30.8</u>		<u>1425</u>	<u>30.5-30.8</u>	<u>1</u>					<u>X</u>				
	TOTAL													

RELINQUISHED BY <u>(FedEx)</u>	TIME/DATE <u>2/8/18</u>	RECEIVED BY COMPANY <u>MIKE CARTER CORCLAB</u>	TIME/DATE <u>2/9/18 1600</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

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UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT RI Phase 3 DATE 2/8/18 FIELD PERSON# Amy Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell/Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY CoreLab

Sampler <u>Amye Hind</u> Signature <u>[Signature]</u>	Analysis Required											COMMENTS										
	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	*HOLD												
✓	PT-TBG5-70.0-70.5	2/5/18	1535	70.0-70.5	-	S	1	U	No	X												
✓	PT-TBG5-80.0-80.5		1542	80.0-80.5	-					X												
✓	PT-TBG5-90.5-91.0		1545	90.5-91.0	-					X												
✓	PT-TBG5-102.5-103.0		1548	102.5-103.0	-					X												* Hold pending instruction by J. Donovan/Ramboll
✓	PT-TBG5-111.2-111.7		1551	111.2-111.7	-					X												
✓	PT-TBG5-120.0-120.5		1554	120.0-120.5	-					X												
✓	PT-TBG5-130.0-130.5		1557	130.0-130.5	-					X												
✓	PT-TBG5-139.5-140.0		1600	139.5-140.0	-					X												
✓	PT-TBG5-143.6-144.1		1603	143.6-144.1	-					X												Order 3 of 5
✓	PT-TBG5-147.0-147.5		1606	147.0-147.5	-					X												
✓	PT-TBG5-159.5-160.0		1609	159.5-160.0	-					X												
✓	PT-TBG5-11.0-11.3		1438	11.0-11.3	-					X												
TOTAL																						

RELINQUISHED BY <u>[Signature]</u> (Fed Ex)	TIME/DATE <u>2/8/18</u>	RECEIVED BY COMPANY <u>MIKE CARTER CORE LAB</u>	TIME/DATE <u>2/9/18 1600</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

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UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT RI Phase 3 DATE 2/8/18 FIELD PERSON# Amy Marion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell/Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY CoreLab

Sampler Signature	Analysis Required													COMMENTS										
	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	X														
<u>Amie Hinds</u> <u>[Signature]</u>	PT-TBG1-146.0-146.3	2/6/18	1326	146.0-146.3	-	S	1	U	NO	X														
	PT-TBG2-41.0-41.3	2/7/18	1427	41.0-41.3	-					X														
	PT-TBG2-50.0-50.3		1430	50.0-50.3	-					X														
	PT-TBG2-59.0-59.3		1434	59.0-59.3	-					X														
	PT-TBG2-64.0-64.3		1436	64.0-64.3	-					X														
	PT-TBG2-67.0-67.3	↓	1439	67.0-67.3	-					X														
	PT-TBG5-20.0-20.3	2/5/18	1441	20.0-20.3	-					X														
	PT-TBG5-30.0-30.3		1443	30.0-30.3	-					X														
	PT-TBG5-40.0-40.3		1446	40.0-40.3	-					X														
	PT-TBG5-50.0-50.3		1450	50.0-50.3	-					X														
	PT-TBG5-59.0-59.3		1454	59.0-59.3	-					X														
	PT-TBG5-62.5-62.8	↓	1457	62.5-62.8	-	↓	↓	↓	↓	X														
	TOTAL																							

*HOLD pending instruction by S. Donovan/Ramboll

Cover 4 of 5

RELINQUISHED BY <u>[Signature]</u> (FedEx)	TIME/DATE <u>2/8/18</u>	RECEIVED BY COMPANY	TIME/DATE	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

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CHAIN-OF-CUSTODY FORM

№ 13150

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____

MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID NERT RI Phase 3
 PROJECT LOCATION Henderson, NV DATE 2/18/18
 PROJECT NUMBER 1690006609-036 1690006943-038
 SAMPLER Amie Hinds YEAR 2018

FIELD PERSON# Alex Marr
 PROJECT MANAGER Greg Kinsall
 LABORATORY Core Lab
 SIGNATURE [Signature]

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
PT-ES12-11.0-11.5	1/20/18	1115	11.0-11.5	-	S	1	U	No	X	
PT-ES12-15.0-15.5		1145	15.0-15.5	-					X	
PT-ES12-21.0-21.5		1255	21.0-21.5	-					X	
PT-ES12-28.0-28.5		1310	28.0-28.5	-					X	
PT-ES12-35.0-35.5		1315	35.0-35.5	-					X	
PT-ES12-42.0-42.5		1345	42.0-42.5	-					X	
PT-ES12-55.0-55.5		1425	55.0-55.5	-					X	
PT-ES12-75.0-75.5		1530	75.0-75.5	-					X	
PT-ES12-85.0-85.5		1600	85.0-85.5	-					X	
PT-ES12-95.0-95.5	11/21/18	0820	95.0-95.5	-					X	
PT-ES12-105.4-106.0		0910	105.4-106.0	-					X	Cooler 5 of 5
PT-TBG1-63.5-63.8	2/16/18	1215	63.5-63.8	-	S	1	U	No	X	
TOTAL										

H = HCL; N = HNO₃; S = H₂SO₄; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY <u>[Signature]</u> (Peter)	TIME/DATE <u>2/18/18</u>	RECEIVED BY COMPANY <u>MIKE CARTER CORELAB</u>	TIME/DATE <u>2/19/18 1600</u>	TURNAROUND TIME (CIRCLE ONE) <input type="radio"/> SAME DAY 72 HOURS <input type="radio"/> 24 HOURS 5 DAYS <input checked="" type="radio"/> 48 HOURS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	
SAMPLE INTEGRITY INTACT Y N TEMP _____				SAMPLE INTEGRITY INTACT Y N

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 - 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT-R1 Phase 3 DATE 2-21-2018 FIELD PERSON# Keith Heideman
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell/ Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY Core Laboratories LP

Sampler <u>Keith Heideman</u>	Analysis Required																	
	Signature <u>Keith</u>																	
SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	#HOLD									COMMENTS
✓ PT-ES-88-15.0-15.3	2-15-18	1335	15-15.5	1	S	1	U	NO	✓									
✓ PT-ES-88-25.0-25.3	2-15-18	1340	25-25.5	1	S	1	U	NO	✓									
✓ PT-ES-88-35.0-35.3	2-15-18	1405	35-35.5	1	S	1	U	NO	✓									#HOLD pending instruction by J. Donovan (Rambo)
✓ PT-ES-88-40.5-40.8	2-15-18	1410	40.5-40.8	1	S	1	U	NO	✓									
✓ PT-ES-88-44.0-44.5	2-15-18	1415	44-44.5	1	S	1	U	NO	✓									
✓ PT-ES-88-55.0-55.5	2-15-18	1420	55-55.5	1	S	1	U	NO	✓									
✓ PT-ES-88-61.0-61.5	2-15-18	1430	61-61.5	1	S	1	U	NO	✓									
✓ PT-ES-88-75.0-75.5	2-15-18	1440	75-75.5	1	S	1	U	NO	✓									
✓ PT-ES-88-85.0-85.5	2-15-18	1515	85-85.5	1	S	1	U	NO	✓									
✓ PT-ES-88-65.0-65.5	2-15-18	1435	65-65.5	1	S	1	U	NO	✓									
✓ PT-ES-88-85.0-85.5	2-15-18	1450	85-85.5	1	S	1	U	NO	✓									
✓ PT-ES-88-115.0-115.5	2-15-18	1605	115-115.5	1	S	1	U	NO	✓									
TOTAL																		

NO = NONE

RELINQUISHED BY <u>Keith Heideman (Fed Ex)</u>	TIME/DATE <u>2-21-18 @ 0800</u>	RECEIVED BY COMPANY <u>Jacey Bushy - Core Lab</u>	TIME/DATE <u>3-1-18 1354</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	48 HOURS	<u>NORMAL</u>
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		SAMPLE INTEGRITY INTACT <u>Y</u> N	

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 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT - R1 Phase 3 DATE 2-21-2018 FIELD PERSON# Keith Heidicorn
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY Core Laboratories LP

Sampler <u>Keith Heidicorn</u> Signature <u>Keith Heidicorn</u>		Analysis Required												COMMENTS											
SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	*HOLD																
✓ PT-ES-88-105.0-105.5	2-15-18	1535	105-105.5	-	S	1	U	NO	✓																
✓ PT-ES-88-118.5-119.0	2-15-18	1620	118.5-119	-	S	1	U	NO	✓																#HOLD pending instruction by J. Donovan (Ramboll)
TOTAL																									

NO = NONE

RELINQUISHED BY <u>Keith Heidicorn (FedEx)</u>	TIME/DATE <u>2-21-18 @ 0800</u>	RECEIVED BY COMPANY <u>Nancy Boring - Core Lab</u>	TIME/DATE <u>3-1-18 1354</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	48 HOURS	<u>NORMAL</u>
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		SAMPLE INTEGRITY INTACT <u>Y</u> N	

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UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID VERT-R1 Phase 3 DATE 2-21-2018 FIELD PERSON# Keith Heideman
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY Core Laboratories LP

Sampler Signature	Analysis Required													
	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	#HOLD				COMMENTS
<u>Keith Heideman</u>														
<u>Keith</u>														
	✓ PT-ES-9-15.0-15.3	2-20-18	1405	15-15.3	-	S	1	U	NO	✓				
	✓ PT-ES-9-25.0-25.3	2-20-18	1410	25-25.3	-	S	1	U	NO	✓				
	✓ PT-ES-9-35.0-35.3	2-20-18	1415	35.0-35.3	-	S	1	U	NO	✓				#HOLD pending instruction by J. Donovan (Ramboll)
	✓ PT-ES-9-45.0-45.3	2-20-18	1420	45-45.3	-	S	1	U	NO	✓				
	✓ PT-ES-9-55.0-55.5	2-20-18	1425	55-55.5	-	S	1	U	NO	✓				
	✓ PT-ES-9-65.0-65.5	2-20-18	1430	65-65.5	-	S	1	U	NO	✓				
	✓ PT-ES-9-75.0-75.5	2-20-18	1435	75-75.5	-	S	1	U	NO	✓				
	✓ PT-ES-9-85.0-85.5	2-20-18	1440	85-85.5	-	S	1	U	NO	✓				
	✓ PT-ES-9-95.0-95.5	2-20-18	1445	95-95.5	-	S	1	U	NO	✓				
	✓ PT-ES-9-105.0-105.5	2-20-18	1450	105-105.5	-	S	1	U	NO	✓				
	✓ PT-ES-9-115.0-115.5	2-20-18	1455	115-115.5	-	S	1	U	NO	✓				
	TOTAL													

NO = NONE

RELINQUISHED BY <u>Keith Heideman (FedEx)</u>	TIME/DATE <u>2-21-18 @ 0900</u>	RECEIVED BY COMPANY <u>Nacey Bishop - Core Lab</u>	TIME/DATE <u>3-1-18 1408</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	48 HOURS	<u>NORMAL</u>
					SAMPLE INTEGRITY INTACT <u>Y</u> N	

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RAMBOLL

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT-R1 Phase 3 DATE 2-21-2018 FIELD PERSON# Keith Heidcora
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY Core Laboratories LP

Sampler Signature	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	Analysis Required										COMMENTS			
										*HOLD													
<u>Keith Heidcora</u> <u>Keith</u>	<u>PT-ES-10-14.0-14.3</u>	<u>2-16-18</u>	<u>1345</u>	<u>14-14.3</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													
	<u>PT-ES-10-25.0-25.5</u>	<u>2-16-18</u>	<u>1350</u>	<u>25-25.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													
	<u>PT-ES-10-35.0-35.5</u>	<u>2-16-18</u>	<u>1355</u>	<u>35-35.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													<u>*HOLD pending</u>
	<u>PT-ES-10-45.0-45.5</u>	<u>2-16-18</u>	<u>1400</u>	<u>45-45.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													<u>instructions by</u>
	<u>PT-ES-10-55.0-55.5</u>	<u>2-16-18</u>	<u>1405</u>	<u>55-55.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													<u>J. Donovan (Ramboll)</u>
	<u>PT-ES-10-65.0-65.5</u>	<u>2-16-18</u>	<u>1410</u>	<u>65-65.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													
	<u>PT-ES-10-75.0-75.5</u>	<u>2-16-18</u>	<u>1415</u>	<u>75-75.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													
	<u>PT-ES-10-85.0-85.5</u>	<u>2-16-18</u>	<u>1430</u>	<u>85-85.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													
	<u>PT-ES-10-95.0-95.5</u>	<u>2-16-18</u>	<u>1440</u>	<u>95-95.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													
	<u>PT-ES-10-105.0-105.5</u>	<u>2-16-18</u>	<u>1450</u>	<u>105-105.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													
	<u>PT-ES-10-115.0-115.5</u>	<u>2-16-18</u>	<u>1455</u>	<u>115-115.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>U</u>	<u>NO</u>	<u>✓</u>													
	TOTAL																						

KH
2-21-18

RELINQUISHED BY <u>Keith Heidcora (FedEx)</u>	TIME/DATE <u>2-21-18 @ 0800</u>	RECEIVED BY COMPANY <u>Jacqy Bishop - Core Lab</u>	TIME/DATE <u>3/1/18 1401</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT <input checked="" type="radio"/> N	

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UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID VERT-RI Phase 3 DATE 2-21-2018 FIELD PERSON# Keith Heidecorn
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY Core Laboratories LP

Sampler Signature	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)R; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	Analysis Required										COMMENTS		
										#HOLD												
<u>Keith Heidecorn</u> <u>Keith</u>	✓ PT-ESB-14-130-13.3	2-18-18	1245	130-13.3	-	S	1	U	NO	✓												
	✓ PT-ESB-14-15.5-16.0	2-18-18	1250	15.5-16.0	-	S	1	U	NO	✓												
	✓ PT-ESB-14-21.0-21.5	2-18-18	1255	21.0-21.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-25.0-25.5	2-18-18	1300	25.0-25.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-35.0-35.5	2-18-18	1305	35.0-35.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-45.0-45.5	2-18-18	1310	45.0-45.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-55.0-55.5	2-18-18	1315	55.0-55.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-65.0-65.5	2-18-18	1320	65.0-65.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-75.0-75.5	2-18-18	1325	75-75.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-85.0-85.5	2-18-18	1330	85-85.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-105.0-105.5	2-18-18	1335	105-105.5	-	S	1	U	NO	✓												
	✓ PT-ESB-14-125.0-125.5	2-18-18	1340	125-125.5	-	S	1	U	NO	✓												
	TOTAL																					

NO = NONE

KH
2-21-18

#HOLD pending instruction by J. Donovan (RAMBOLL)

RELINQUISHED BY <u>Keith Heidecorn (FrdEr)</u>	TIME/DATE <u>2-21-18 @ 0900</u>	RECEIVED BY COMPANY <u>Haley Bixby - Core Lab</u>	TIME/DATE <u>3/1/18 1414</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	48 HOURS	<input checked="" type="radio"/> NORMAL
					SAMPLE INTEGRITY INTACT <input checked="" type="radio"/> N	

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UST PROJECT OR IS EDF REQUIRED? YES (NO) IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID VERT-R1 Phase 3 DATE 2-21-2018 FIELD PERSON# Keith Heidecorn
 PROJECT LOCATION Henderson, NV PROJECT MANAGER Ross Russell / Jessica Donovan
 PROJECT NUMBER 1690006943-038 LABORATORY Core Laboratories LP

Sampler Signature	Analysis Required										COMMENTS
	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	*HOLD	
<u>Keith Heidecorn</u> <u>Russell</u>	<u>PT-ESB-14-1450-145.5</u>	<u>2-18-18</u>	<u>1350</u>	<u>145-145.5</u>	<u>-</u>	<u>S</u>	<u>1</u>	<u>V</u>	<u>NO</u>	<u>✓</u>	<u>*HOLD pending instruction by J. Donovan (Ramboll)</u> <u>KH 2-21-18</u>
TOTAL											

NO = NONE

RELINQUISHED BY <u>Keith Heidecorn (FedEx)</u>	TIME/DATE <u>2-21-18 @ 0800</u>	RECEIVED BY COMPANY <u>Jacey Boring - Core Lab</u>	TIME/DATE <u>3/1/18 1414</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT <u>(Y)</u> N	

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To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 2 (sent 2/8/18)

Date: March 16, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
ES-12	11.0 - 11.5	PT-ES12-11.0-11.5	Glass jar	X	X (1)							X
ES-12	15.0 - 15.5	PT-ES12-15.0-15.5	Glass jar	X	X (1)							X
ES-12	21.0 - 21.5	PT-ES12-21.0-21.5	wrapped core	X	X	X	X	X				X
ES-12	28.0 - 28.5	PT-ES12-28.0-28.5	wrapped core	X	X	X	X	X	V	26 ft	2 ft	X
ES-12	35.0 - 35.5	PT-ES12-35.0-35.5	wrapped core	X	X	X	X	X				X
ES-12	42.0 - 42.5	PT-ES12-42.0-42.5	wrapped core	X	X	X	X	X				X
ES-12	55.0 - 55.5	PT-ES12-55.0-55.5	wrapped core	X	X	X	X	X				X
ES-12	75.0 - 75.5	PT-ES12-75.0-75.5	wrapped core	X	X	X	X	X	V	26 ft	49 ft	X
ES-12	85.0 - 85.5	PT-ES12-85.0-85.5	wrapped core	X	X	X	X	X				X
ES-12	95.0 - 95.5	PT-ES12-95.0-95.5	wrapped core	X	X	X	X	X	V	26 ft	69 ft	X
ES-12	105.4 - 106.0	PT-ES12-105.4-106.0	wrapped core	X	X	X	X	X				X
TB-G1	63.5 - 63.8	PT-TBG1-63.5-63.8	Glass jar	X	X (1)							X
TB-G1	66.0 - 66.5	PT-TBG1-66.0-66.5	wrapped core	X	X	X	X	X	V	65 ft	1 ft	X
TB-G1	69.5 - 70.0	PT-TBG1-69.5-70.0	wrapped core	X	X	X	X	X				X
TB-G1	77.5 - 78.0	PT-TBG1-77.5-78.0	wrapped core	X	X	X	X	X	V	65 ft	12.5 ft	X
TB-G1	87.5 - 88.0	PT-TBG1-87.5-88.0	wrapped core	X	X	X	X	X				X
TB-G1	117.5 - 118.0	PT-TBG1-117.5-118.0	wrapped core	X	X	X	X	X	V	65 ft	52.5 ft	X
TB-G1	127.5 - 128.0	PT-TBG1-127.5-128.0	wrapped core	X	X	X	X	X				X
TB-G1	139.5 - 140.0	PT-TBG1-139.5-140.0	wrapped core	X	X	X	X	X	V	65 ft	74.5 ft	X
TB-G1	142.0 - 142.5	PT-TBG1-142.0-142.5	wrapped core	X	X	X	X	X				X
TB-G1	144.5 - 145.0	PT-TBG1-144.5-145.0	wrapped core	X	X	X	X	X	V	65 ft	79.5 ft	X
TB-G1	146.0 - 146.3	PT-TBG1-146.0-146.3	Glass jar	X	X (1)							X
TB-G1	149.0 - 149.5	PT-TBG1-149.0-149.5	wrapped core	X	X	X	X	X				X
TB-G1	159.5 - 160.0	PT-TBG1-159.5-160.0	wrapped core	X	X	X	X	X	V	65 ft	94.5 ft	X
TB-G1	161.5 - 162.0	PT-TBG1-161.5-162.0	wrapped core	X	X	X	X	X				X

To: Larry Kunkel, Core Laboratories
3470 Landco Drive, Bakersfield, CA 93308

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST,
for Sample Shipment Group 2 (sent 2/8/18)

Date: March 16, 2018
Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
TB-G2	10.5 - 10.8	PT-TBG2-10.5-10.8	Glass jar	X	X (1)							X
TB-G2	19.5 - 19.8	PT-TBG2-19.5-19.8	Glass jar	X	X (1)							X
TB-G2	30.5 - 30.8	PT-TBG2-30.5-30.8	Glass jar	X	X (1)							X
TB-G2	41.0 - 41.3	PT-TBG2-41.0-41.3	Glass jar	X	X (1)							X
TB-G2	50.0 - 50.3	PT-TBG2-50.0-50.3	Glass jar	X	X (1)							X
TB-G2	59.0 - 59.3	PT-TBG2-59.0-59.3	Glass jar	X	X (1)							X
TB-G2	64.0 - 64.3	PT-TBG2-64.0-64.3	Glass jar	X	X (1)							X
TB-G2	67.0 - 67.3	PT-TBG2-67.0-67.3	Glass jar	X	X (1)							X
TB-G2	78.0 - 78.5	PT-TBG2-78.0-78.5	wrapped core	X	X	X	X	X				X
TB-G2	86.0 - 86.5	PT-TBG2-86.0-86.5	wrapped core	X	X	X	X	X				X
TB-G2	91.5 - 92.0	PT-TBG2-91.5-92.0	wrapped core	X	X	X	X	X				X
TB-G2	111.0 - 111.5	PT-TBG2-111.0-111.5	wrapped core	X	X	X	X	X				X
TB-G2	120.0 - 120.5	PT-TBG2-120.0-120.5	wrapped core	X	X	X	X	X				X
TB-G2	129.0 - 129.5	PT-TBG2-129.0-129.5	wrapped core	X	X	X	X	X				X
TB-G2	139.0 - 139.5	PT-TBG2-139.0-139.5	wrapped core	X	X	X	X	X				X
TB-G2	145.5 - 146.0	PT-TBG2-145.5-146.0	wrapped core	X	X	X	X	X				X
TB-G2	151.5 - 152.0	PT-TBG2-151.5-152.0	wrapped core	X	X	X	X	X				X

To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 2 (sent 2/8/18)

Date: March 16, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
TB-G5	11.0 - 11.3	PT-TBG5-11.0-11.3	Glass jar	X	X (1)							X
TB-G5	20.0 - 20.3	PT-TBG5-20.0-20.3	Glass jar	X	X (1)							X
TB-G5	30.0 - 30.3	PT-TBG5-30.0-30.3	Glass jar	X	X (1)							X
TB-G5	40.0 - 40.3	PT-TBG5-40.0-40.3	Glass jar	X	X (1)							X
TB-G5	50.0 - 50.3	PT-TBG5-50.0-50.3	Glass jar	X	X (1)							X
TB-G5	59.0 - 59.3	PT-TBG5-59.0-59.3	Glass jar	X	X (1)							X
TB-G5	62.5 - 62.8	PT-TBG5-62.5-62.8	Glass jar	X	X (1)							X
TB-G5	70.0 - 70.5	PT-TBG5-70.0-70.5	wrapped core	X	X	X	X	X	V	65.5 ft	0.5 ft	X
TB-G5	80.0 - 80.5	PT-TBG5-80.0-80.5	wrapped core	X	X	X	X	X				X
TB-G5	90.5 - 91.0	PT-TBG5-90.5-91.0	wrapped core	X	X	X	X	X	V	65.5 ft	25 ft	X
TB-G5	102.5 - 103.0	PT-TBG5-102.5-103.0	wrapped core	X	X	X	X	X				X
TB-G5	111.2 - 111.7	PT-TBG5-111.2-111.7	wrapped core	X	X	X	X	X	V	65.5 ft	45.7 ft	X
TB-G5	120.0 - 120.5	PT-TBG5-120.0-120.5	wrapped core	X	X	X	X	X				X
TB-G5	130.0 - 130.5	PT-TBG5-130.0-130.5	wrapped core	X	X	X	X	X	V	65.5 ft	64.5 ft	X
TB-G5	139.5 - 140.0	PT-TBG5-139.5-140.0	wrapped core	X	X	X	X	X				X
TB-G5	143.6 - 144.1	PT-TBG5-143.6-144.1	wrapped core	X	X	X	X	X	V	65.5 ft	78.1 ft	X
TB-G5	147.0 - 147.5	PT-TBG5-147.0-147.5	wrapped core	X	X	X	X	X				X
TB-G5	159.5 - 160.0	PT-TBG5-159.5-160.0	wrapped core	X	X	X	X	X	V	65.5 ft	94 ft	X
TOTALS:				60	41	41	41	41	15			60

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).

To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 3 (sent 2/21/18)

Date: March 19, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
ES-8B	15.0 - 15.3	PT-ES8B-15.0-15.3	Glass jar	X	X (1)							X
ES-8B	25.0 - 25.3	PT-ES8B-25.0-25.3	Glass jar	X	X (1)							X
ES-8B	35.0 - 35.3	PT-ES8B-35.0-35.3	Glass jar	X	X (1)							X
ES-8B	40.5 - 40.8	PT-ES8B-40.5-40.8	Glass jar	X	X (1)							X
ES-8B	44.0 - 44.5	PT-ES8B-44.0-44.5	wrapped core	X	X	X	X	X	V	44 ft	0 ft	X
ES-8B	55.0 - 55.5	PT-ES8B-55.0-55.5	wrapped core	X	X	X	X	X				X
ES-8B	61.0 - 61.5	PT-ES8B-61.0-61.5	wrapped core	X	X	X	X	X				X
ES-8B	65.0 - 65.5	PT-ES8B-65.0-65.5	wrapped core	X	X	X	X	X				X
ES-8B	75.0 - 75.5	PT-ES8B-75.0-75.5	wrapped core	X	X	X	X	X				X
ES-8B	85.0 - 85.5	PT-ES8B-85.0-85.5	wrapped core	X	X	X	X	X	V	59 ft	26 ft	X
ES-8B	95.0 - 95.5	PT-ES8B-95.0-95.5	wrapped core	X	X	X	X	X				X
ES-8B	105.0 - 105.5	PT-ES8B-105.0-105.5	wrapped core	X	X	X	X	X				X
ES-8B	115.0 - 115.5	PT-ES8B-115.0-115.5	wrapped core	X	X	X	X	X	V	59 ft	56 ft	X
ES-8B	118.5 - 119.0	PT-ES8B-118.5-119.0	wrapped core	X	X	X	X	X				X
ES-9	15.0 - 15.3	PT-ES9-15.0-15.3	Glass jar	X	X (1)							X
ES-9	25.0 - 25.3	PT-ES9-25.0-25.3	Glass jar	X	X (1)							X
ES-9	35.0 - 35.3	PT-ES9-35.0-35.3	Glass jar	X	X (1)							X
ES-9	45.0 - 45.3	PT-ES9-45.0-45.3	Glass jar	X	X (1)							X
ES-9	55.0 - 55.5	PT-ES9-55.0-55.5	wrapped core	X	X	X	X	X				X
ES-9	65.0 - 65.5	PT-ES9-65.0-65.5	wrapped core	X	X	X	X	X	V	64.5 ft	0.5 ft	X
ES-9	75.0 - 75.5	PT-ES9-75.0-75.5	wrapped core	X	X	X	X	X				X
ES-9	85.0 - 85.5	PT-ES9-85.0-85.5	wrapped core	X	X	X	X	X				X
ES-9	95.0 - 95.5	PT-ES9-95.0-95.5	wrapped core	X	X	X	X	X				X
ES-9	105.0 - 105.5	PT-ES9-105.0-105.5	wrapped core	X	X	X	X	X	V	64.5 ft	40.5 ft	X
ES-9	115.0 - 115.5	PT-ES9-115.0-115.5	wrapped core	X	X	X	X	X				X

To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST,
 for Sample Shipment Group 3 (sent 2/21/18)

Date: March 19, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
ES-10	14.0 - 14.3	PT-ES10-14.0-14.3	Glass jar	X	X (1)							X
ES-10	25.0 - 25.5	PT-ES10-25.0-25.5	wrapped core	X	X	X	X	X				X
ES-10	35.0 - 35.5	PT-ES10-35.0-35.5	wrapped core	X	X	X	X	X	V	26.5 ft	8.5 ft	X
ES-10	45.0 - 45.5	PT-ES10-45.0-45.5	wrapped core	X	X	X	X	X				X
ES-10	55.0 - 55.5	PT-ES10-55.0-55.5	wrapped core	X	X	X	X	X				X
ES-10	65.0 - 65.5	PT-ES10-65.0-65.5	wrapped core	X	X	X	X	X				X
ES-10	75.0 - 75.5	PT-ES10-75.0-75.5	wrapped core	X	X	X	X	X				X
ES-10	85.0 - 85.5	PT-ES10-85.0-85.5	wrapped core	X	X	X	X	X	V	26.5 ft	58.5 ft	X
ES-10	95.0 - 95.5	PT-ES10-95.0-95.5	wrapped core	X	X	X	X	X				X
ES-10	105.0 - 105.5	PT-ES10-105.0-105.5	wrapped core	X	X	X	X	X				X
ES-10	115.0 - 115.5	PT-ES10-115.0-115.5	wrapped core	X	X	X	X	X				X
ESB-14	13.0 - 13.3	PT-ESB14-13.0-13.3	Glass jar	X	X (1)							X
ESB-14	15.5 - 16.0	PT-ESB14-15.5-16.0	wrapped core	X	X	X	X	X				X
ESB-14	21.0 - 21.5	PT-ESB14-21.0-21.5	wrapped core	X	X	X	X	X	V	21 ft	0 ft	X
ESB-14	25.0 - 25.5	PT-ESB14-25.0-25.5	wrapped core	X	X	X	X	X				X
ESB-14	35.0 - 35.5	PT-ESB14-35.0-35.5	wrapped core	X	X	X	X	X	V	26 ft	9 ft	X
ESB-14	45.0 - 45.5	PT-ESB14-45.0-45.5	wrapped core	X	X	X	X	X	V	26 ft	19 ft	X
ESB-14	55.0 - 55.5	PT-ESB14-55.0-55.5	wrapped core	X	X	X	X	X				X
ESB-14	65.0 - 65.5	PT-ESB14-65.0-65.5	wrapped core	X	X	X	X	X	V	26 ft	39 ft	X
ESB-14	75.0 - 75.5	PT-ESB14-75.0-75.5	wrapped core	X	X	X	X	X				X
ESB-14	85.0 - 85.5	PT-ESB14-85.0-85.5	wrapped core	X	X	X	X	X	V	26 ft	59 ft	X
ESB-14	105.0 - 105.5	PT-ESB14-105.0-105.5	wrapped core	X	X	X	X	X				X
ESB-14	125.0 - 125.5	PT-ESB14-125.0-125.5	wrapped core	X	X	X	X	X				X
ESB-14	145.0 - 145.5	PT-ESB14-145.0-145.5	wrapped core	X	X	X	X	X				X
TOTALS:				49	49	39	39	39	12			49

To: Larry Kunkel, Core Laboratories
3470 Landco Drive, Bakersfield, CA 93308

Project:
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST,
for Sample Shipment Group 3 (sent 2/21/18)

Date: March 19, 2018
Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
 Project Name: NERT RI Phase 3
 Project Number: 1690006943-038

CL File Number: 1800558
 Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES-8B-15.0-15.3	Medium Grain Sand	1.4177	15.23	25.60	36.61	11.00	8.0	3.5	11.5
PT-ES-8B-25.0-25.3	Coarse Grain Sand	2.0058	22.85	27.22	28.72	7.34	9.2	4.6	13.9
PT-ES-8B-35.0-35.3	Coarse Grain Sand	1.9058	22.95	26.23	26.37	13.58	7.5	3.4	10.9
PT-ES-8B-40.5-40.8	Silt	0.0218	0.00	0.00	0.43	29.00	51.5	19.1	70.6
PT-ES-8B-44.0-44.5	Silt	0.0107	0.00	0.00	0.00	10.81	67.1	22.1	89.2
PT-ES-8B-55.0-55.5	Silt	0.0103	0.00	0.00	0.00	12.89	61.5	25.6	87.1
PT-ES-8B-61.0-61.5	Silt	0.0119	0.00	0.00	0.00	9.49	64.7	25.8	90.5
PT-ES-8B-65.0-65.5	Silt	0.0135	0.00	0.00	0.04	14.77	64.0	21.2	85.2
PT-ES-8B-75.0-75.5	Silt	0.0048	0.00	0.00	0.00	0.01	57.0	43.0	100.0
PT-ES-8B-85.0-85.5	Clay	0.0023	0.00	0.00	0.00	0.01	27.7	72.3	100.0
PT-ES-8B-95.0-95.5	Silt	0.0107	0.00	0.00	0.00	5.84	66.7	27.4	94.2
PT-ES-8B-105.0-105.5	Silt	0.0064	0.00	0.00	0.00	0.03	61.8	38.2	100.0
PT-ES-8B-115.0-115.5	Silt	0.0062	0.00	0.00	0.00	1.45	60.7	37.8	98.6
PT-ES-8B-118.5-119.0	Silt	0.0090	0.00	0.00	0.00	13.47	53.5	33.0	86.5



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES-9-15.0-15.3	Coarse Grain Sand	2.6356	21.97	41.61	22.73	5.71	5.9	2.1	8.0
PT-ES-9-25.0-25.3	Coarse Grain Sand	2.8074	27.31	38.69	20.15	7.10	4.4	2.3	6.8
PT-ES-9-35.0-35.3	Coarse Grain Sand	2.4600	40.32	25.08	17.10	4.17	7.9	5.4	13.3
PT-ES-9-45.0-45.3	Silt	0.0125	0.00	0.00	0.00	9.65	68.5	21.9	90.4
PT-ES-9-55.0-55.5	Silt	0.0072	0.00	0.00	0.00	3.89	61.5	34.6	96.1
PT-ES-9-65.0-65.5	Silt	0.0058	0.00	0.00	0.00	0.01	63.1	36.9	100.0
PT-ES-9-75.0-75.5	Silt	0.0048	0.00	0.00	0.00	0.01	56.5	43.5	100.0
PT-ES-9-85.0-85.5	Silt	0.0114	0.00	0.00	0.00	5.70	69.5	24.8	94.3
PT-ES-9-95.0-95.5	Silt	0.0050	0.00	0.00	0.00	0.00	58.2	41.8	100.0
PT-ES-9-105.0-105.5	Silt	0.0092	0.00	0.00	0.00	2.75	70.7	26.5	97.2
PT-ES-9-115.0-115.5	Silt	0.0068	0.00	0.00	0.00	1.98	65.2	32.8	98.0



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES-10-14.0-14.3	Gravel	4.3896	52.08	23.41	8.18	6.22	7.5	2.6	10.1
PT-ES-10-25.0-25.5	Clay	0.0031	0.00	0.00	0.00	0.00	41.0	59.0	100.0
PT-ES-10-35.0-35.5	Silt	0.0055	0.00	0.00	0.00	0.65	59.3	40.0	99.3
PT-ES-10-45.0-45.5	Silt	0.0050	0.00	0.00	0.00	0.00	57.9	42.1	100.0
PT-ES-10-55.0-55.5	Silt	0.0118	0.00	0.00	0.00	15.35	60.0	24.6	84.7
PT-ES-10-65.0-65.5	Clay	0.0032	0.00	0.00	0.00	0.00	42.0	58.0	100.0
PT-ES-10-75.0-75.5	Silt	0.0074	0.00	0.00	0.00	0.49	68.0	31.5	99.5
PT-ES-10-85.0-85.5	Silt	0.0088	0.00	0.00	0.00	5.01	66.6	28.3	95.0
PT-ES-10-95.0-95.5	Silt	0.0051	0.00	0.00	0.00	1.31	57.2	41.5	98.7
PT-ES-10-105.0-105.5	Silt	0.0078	0.00	0.00	0.00	7.65	60.8	31.6	92.3
PT-ES-10-115.0-115.5	Silt	0.0179	0.00	0.00	0.00	13.94	68.5	17.6	86.1



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES12-11.0-11.5	Coarse Grain Sand	2.2129	16.11	38.27	32.67	8.81	2.9	1.3	4.1
PT-ES12-15.0-15.5	Medium Grain Sand	1.4537	11.96	27.08	36.36	9.88	10.6	4.1	14.7
PT-ES12-21.0-21.5	Silt	0.0103	0.00	0.00	0.00	3.88	61.9	34.2	96.1
PT-ES12-28.0-28.5	Silt	0.0084	0.00	0.00	0.00	0.39	59.78	39.8	99.6
PT-ES12-35.0-35.5	Silt	0.0087	0.00	0.00	0.00	0.46	60.7	38.9	99.5
PT-ES12-42.0-42.5	Silt	0.0083	0.00	0.00	0.00	0.77	59.4	39.8	99.2
PT-ES12-55.0-55.5	Silt	0.0072	0.00	0.00	0.00	0.05	57.23	42.7	100.0
PT-ES12-75.0-75.5	Silt	0.0039	0.00	0.00	0.00	0.00	40.2	59.8	100.0
PT-ES12-85.0-85.5	Silt	0.0032	0.00	0.00	0.00	0.00	33.7	66.3	100.0
PT-ES12-95.0-95.5	Silt	0.0042	0.00	0.00	0.00	0.00	36.29	63.7	100.0
PT-ES12-105.4-106.0	Silt	0.0061	0.00	0.00	0.00	0.00	52.6	47.4	100.0



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ESB-14-13.0-13.3	Medium Grain Sand	0.9514	10.48	23.12	33.73	18.24	10.3	4.1	14.4
PT-ESB-14-15.5-16.0	Silt	0.0104	0.00	0.00	0.00	6.66	58.7	34.6	93.3
PT-ESB-14-21.0-21.5	Silt	0.0152	0.00	0.00	0.00	12.88	59.1	28.1	87.1
PT-ESB-14-25.0-25.5	Silt	0.0123	0.00	0.00	0.00	2.46	66.1	31.4	97.5
PT-ESB-14-35.0-35.5	Silt	0.0411	0.00	0.00	0.08	35.40	42.1	22.4	64.5
PT-ESB-14-45.0-45.5	Silt	0.0093	0.00	0.00	0.00	2.36	60.6	37.1	97.6
PT-ESB-14-55.0-55.5	Silt	0.0054	0.00	0.00	0.00	0.63	48.9	50.5	99.4
PT-ESB-14-65.0-65.5	Clay	0.0024	0.00	0.00	0.00	0.00	18.8	81.2	100.0
PT-ESB-14-75.0-75.5	Clay	0.0030	0.00	0.00	0.00	0.00	26.2	73.8	100.0
PT-ESB-14-85.0-85.5	Clay	0.0025	0.00	0.00	0.00	0.00	14.9	85.1	100.0
PT-ESB-14-105.0-105.5	Silt	0.0095	0.00	0.00	0.00	0.47	63.8	35.7	99.5
PT-ESB-14-125.0-125.5	Clay	0.0022	0.00	0.00	0.00	0.00	21.3	78.7	100.0
PT-ESB-14-145.0-145.5	Silt	0.0073	0.00	0.00	0.00	1.85	55.2	43.0	98.2



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-TBG1-63.5-63.8	Medium Grain Sand	0.7154	9.38	22.32	27.96	17.16	14.6	8.5	23.2
PT-TBG1-66.0-66.5	Silt	0.0520	0.00	0.00	0.06	40.32	47.3	12.3	59.6
PT-TBG1-69.5-70.0	Silt	0.0228	0.00	0.00	0.00	16.20	64.3	19.5	83.8
PT-TBG1-77.5-78.0	Silt	0.0258	0.00	0.00	0.00	15.52	66.16	18.3	84.5
PT-TBG1-87.5-89.0	Silt	0.0244	0.00	0.00	4.70	18.63	59.4	17.3	76.7
PT-TBG1-117.5-118.0	Silt	0.0178	0.00	0.00	0.00	7.18	69.8	23.1	92.8
PT-TBG1-127.5-128.0	Silt	0.0258	0.00	0.00	0.00	15.58	66.24	18.2	84.4
PT-TBG1-139.5-140.0	Silt	0.0149	0.00	0.00	0.00	7.19	66.7	26.1	92.8
PT-TBG1-142.0-142.5	Silt	0.0152	0.00	0.00	0.00	6.42	67.0	26.6	93.6
PT-TBG1-144.5-145.0	Silt	0.0170	0.00	0.00	0.00	6.62	70.50	22.9	93.4
PT-TBG1-146.0-146.5	Silt	0.0213	0.00	0.00	0.00	11.03	68.4	20.6	89.0
PT-TBG1-149.0-149.5	Silt	0.0188	0.00	0.00	0.00	12.18	65.3	22.5	87.8
PT-TBG1-159.5-160.0	Silt	0.0141	0.00	0.00	0.00	2.96	71.53	25.5	97.0
PT-TBG1-161.5-162.0	Silt	0.0135	0.00	0.00	0.00	6.44	65.3	28.2	93.6



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1800558
Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-TBG2-10.5-10.8	Medium Grain Sand	1.2657	16.24	28.07	27.69	14.51	10.0	3.5	13.5
PT-TBG2-19.5-19.8	Medium Grain Sand	1.1806	5.89	21.84	48.30	12.82	8.2	3.0	11.1
PT-TBG2-30.5-30.8	Medium Grain Sand	1.2571	11.30	29.14	33.14	12.17	10.9	3.3	14.2
PT-TBG2-41.0-41.3	Medium Grain Sand	1.5047	12.93	32.10	27.52	8.65	13.5	5.3	18.8
PT-TBG2-50.0-50.3	Coarse Grain Sand	2.2777	19.21	36.00	25.93	8.51	7.1	3.2	10.3
PT-TBG2-59.0-59.3	Medium Grain Sand	1.3441	12.89	24.99	42.89	10.80	5.7	2.7	8.4
PT-TBG2-64.0-64.3	Coarse Grain Sand	2.4342	18.12	42.43	30.72	4.84	2.8	1.1	3.9
PT-TBG2-67.0-67.3	Silt	0.0237	0.00	0.00	0.00	13.37	69.6	17.1	86.6
PT-TBG2-78.0-78.5	Silt	0.0263	0.00	0.00	0.00	19.17	61.8	19.0	80.8
PT-TBG2-86.0-86.5	Silt	0.0253	0.00	0.00	0.02	17.10	64.4	18.4	82.9
PT-TBG2-91.5-92.0	Silt	0.0192	0.00	0.00	0.01	10.17	70.3	19.5	89.8
PT-TBG2-111.0-111.5	Silt	0.0183	0.00	0.00	0.00	8.48	68.2	23.3	91.5
PT-TBG2-120.0-120.5	Silt	0.0200	0.00	0.00	0.00	11.13	67.9	20.9	88.9
PT-TBG2-129.0-129.5	Silt	0.0153	0.00	0.00	0.00	7.72	71.1	21.1	92.3
PT-TBG2-139.0-139.5	Silt	0.0098	0.00	0.00	0.00	4.76	65.0	30.2	95.2
PT-TBG2-145.5-146.0	Silt	0.0139	0.00	0.00	0.00	12.73	62.9	24.4	87.3
PT-TBG2-151.5-152.0	Silt	0.0122	0.00	0.00	0.00	3.59	68.2	28.2	96.4



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
 Project Name: NERT RI Phase 3
 Project Number: 1690006943-038

CL File Number: 1800558
 Date: 5/23/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-TBG5-11.0-11.3	Medium Grain Sand	1.3214	7.50	26.87	44.80	12.55	5.9	2.4	8.3
PT-TBG5-20.0-20.3	Coarse Grain Sand	1.9558	11.65	37.58	34.28	9.05	5.8	1.6	7.4
PT-TBG5-30.0-30.3	Medium Grain Sand	1.6728	11.75	32.23	39.77	8.59	5.3	2.3	7.6
PT-TBG5-40.0-40.3	Medium Grain Sand	0.6395	5.90	13.31	37.99	15.95	20.3	6.5	26.9
PT-TBG5-50.0-50.3	Medium Grain Sand	0.9510	4.31	19.70	41.30	14.09	14.9	5.7	20.6
PT-TBG5-59.0-59.3	Medium Grain Sand	1.1753	12.81	19.89	40.59	16.06	7.6	3.0	10.6
PT-TBG5-62.5-62.8	Medium Grain Sand	1.3713	24.30	24.59	31.32	10.41	6.9	2.4	9.4
PT-TBG5-70.0-70.5	Silt	0.0049	0.00	0.00	0.00	0.00	57.4	42.6	100.0
PT-TBG5-80.0-80.5	Silt	0.0090	0.00	0.00	0.00	4.44	66.2	29.4	95.6
PT-TBG5-90.5-91.0	Silt	0.0123	0.00	0.00	0.00	12.76	62.6	24.7	87.2
PT-TBG5-102.5-103.0	Silt	0.0085	0.00	0.00	0.00	1.65	69.3	29.1	98.4
PT-TBG5-111.2-111.7	Silt	0.0184	0.00	0.00	0.00	25.22	54.5	20.2	74.8
PT-TBG5-120.0-120.5	Silt	0.0132	0.00	0.00	0.00	12.83	63.6	23.6	87.2
PT-TBG5-130.0-130.5	Silt	0.0126	0.00	0.00	0.00	12.66	63.2	24.1	87.3
PT-TBG5-139.5-140.0	Silt	0.0105	0.00	0.00	0.00	7.34	66.9	25.8	92.7
PT-TBG5-143.6-144.1	Silt	0.0062	0.00	0.00	0.00	1.25	61.4	37.4	98.8
PT-TBG5-147.0-147.5	Silt	0.0093	0.00	0.00	0.00	6.11	65.3	28.6	93.9
PT-TBG5-159.5-160.0	Silt	0.0079	0.00	0.00	0.00	8.32	60.1	31.5	91.7



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June 29, 2018

Jessica Donovan
Ramboll US Corporation
2200 Powell Street, Suite 700
Emeryville, CA 94608

Subject: Petrophysical Properties
File No.: 1801096

Dear Ms. Donovan:

Enclosed are final data for the Group 4 set of samples submitted to our laboratory from project LePetXXVII: Nert RI Phase 3 in Henderson, Nevada.

Grain size analysis, Atterberg Limits, Moisture Content, Density, Porosity, Hydraulic Conductivity, and TOC were performed on requested samples where there was suitable recovery. Appropriate ASTM, EPA or API methodologies were used for this project and SOP's are available on request. The samples for this project are currently in storage and will be retained for thirty days past completion of testing at no charge. At the end of thirty days, the samples will be disposed. You may contact me regarding continued storage, disposal, or return of the samples.

Thank you for this opportunity to be of service to Ramboll US Corporation. Please do not hesitate to contact us at (661-325-5657) if you have any questions regarding these results or if we can be of any additional service.

Sincerely,
Core Laboratories

Michael Carter
Core Analyst

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, expressed or implied, as to the productivity, proper operations or profitability, however, of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 1690006943-038

CL File Number: 1801096

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Table 1 Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

Sample ID.	Depth ft.	Sample Date	Sample ¹ Orientation	METHODS:	API RP40	API RP40	API RP 40		
				ASTM D2216	D5550	ASTM D425M			
				Moisture Content	Density		Porosity ²		
				% dry weight	Dry Bulk g/cm ³	Grain gm/cc	Total %	Effective ³ %Vb ⁴	
PT-ES-15-65.0-65.5	65.20	03/20/18	V		61.36	0.99	2.65	62.77	5.92
PT-ES-15-74.2-74.7	74.50	03/20/18	V		37.17	1.30	2.69	51.73	1.37
PT-ES-15-84.5-85.0	84.80	03/20/18	V		35.99	1.41	2.64	46.59	1.85
PT-ES-15-94.5-95.0	94.80	03/20/18	V		33.96	1.50	2.60	42.38	1.84
PT-ES-15-104.5-105.0	104.70	03/20/18	V		40.75	1.35	2.64	48.88	3.23
PT-ES-15-118.5-119.0	118.70	03/20/18	V		51.04	1.10	2.60	57.72	6.99
PT-ES-17-55.5-56.0	55.60	03/19/18	V		34.02	1.42	2.64	46.04	2.78
PT-ES-17-74.5-75.0	74.70	03/19/18	V		34.15	1.46	2.65	45.05	4.84
PT-ES-25B-25.0-25.5	25.30	03/06/18	V		25.58	1.45	2.60	44.08	14.18
PT-ES-25B-35.0-35.6	35.20	03/06/18	V		34.25	1.45	2.61	44.26	1.69
PT-ES-25B-45.2-45.7	45.40	03/06/18	V		46.51	1.20	2.65	54.79	2.07
PT-ES-25B-55.0-55.4	55.20	03/06/18	V		30.32	1.54	2.66	42.25	3.24
PT-ES-25B-65.0-65.5	65.20	03/06/18	V		43.23	1.26	2.66	52.73	2.14
PT-ES-25B-76.5-77.0	76.70	03/06/18	V		36.07	1.35	2.66	49.31	1.15
PT-ES-25B-85.5-86.0	85.70	03/06/18	V		39.07	1.33	2.59	48.85	2.80
PT-ES-25B-96.0-96.5	96.30	03/06/18	V		33.72	1.43	2.63	45.41	1.30
PT-ES-25B-106.0-106.5	106.30	03/06/18	V		36.84	1.36	2.60	47.76	1.49
PT-ES-25B-119.0-119.5	119.30	03/06/18	V		28.50	1.53	2.62	41.55	1.05
PT-ES-26-45.0-45.5	45.20	03/06/18	V		121.91	0.61	2.53	75.66	14.74
PT-ES-26-55.0-55.5	55.30	03/06/18	V		101.60	0.71	2.57	72.39	15.57
PT-ES-26-65.0-65.5	65.20	03/06/18	V		74.17	0.85	2.67	68.13	6.79
PT-ES-26-75.0-75.5	75.30	03/06/18	V		67.14	0.95	2.63	63.88	16.36
PT-ES-26-85.0-85.5	85.20	03/06/18	V		36.08	1.37	2.60	47.31	3.64



Table 1 Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

Sample ID.	Depth ft.	Sample Date	Sample ¹ Orientation	METHODS:	API RP40 ASTM D2216	API RP40 D5550	API RP 40 ASTM D425M		
				Moisture Content % dry weight	Density		Porosity ²		
					Dry Bulk g/cm ³	Grain gm/cc	Total %	Effective ³ %Vb ⁴	
PT-ES-26-95.0-95.5	95.30	03/06/18	V		30.91	1.40	2.58	45.63	9.81
PT-ES-26104.5-105.0	104.80	03/06/18	V		25.46	1.59	2.66	46.99	1.45
PT-ES-26-114.5-115.0	114.70	03/06/18	V		37.19	1.38	2.63	47.66	1.32
PT-ES-27-55.0-55.5	55.30	03/07/18	V		29.38	1.41	2.67	47.21	6.28
PT-ES-27-65.0-65.5	65.30	03/07/18	V		60.36	0.99	2.64	62.55	8.66
PT-ES-27-75.0-75.5	75.30	03/07/18	V		31.41	1.41	2.65	46.74	12.07
PT-ES-27-85.0-85.5	85.20	03/07/18	V		34.86	1.32	2.67	50.46	15.24
PT-ES-27-96.0-96.5	96.30	03/07/18	V		42.64	1.21	2.65	54.31	6.05
PT-ES-27-106.0-106.5	106.30	03/07/18	V		46.57	1.14	2.65	57.09	4.33
PT-ES-27-113.7-114.2	113.90	03/07/18	V		39.68	1.24	2.64	52.89	3.81
PT-ESB-18-25.0-25.5	55.20	02/27/18	V		45.25	1.19	2.62	54.59	5.45
PT-ESB-18-64.5-65.0	64.70	02/27/18	V		41.64	1.25	2.64	52.54	1.55
PT-ESB-18-74.5-75.0	74.70	02/27/18	V		23.75	1.59	2.57	38.07	2.79
PT-ESB-18-85.0-85.5	85.20	02/27/18	V		22.90	1.59	2.55	37.80	6.55
PT-ESB-18-95.0-95.5	95.20	02/27/18	V		26.92	1.47	2.55	42.40	5.29
PT-ESB-18-104.5-105.0	104.70	02/27/18	V		39.10	1.28	2.60	50.81	2.39
PT-ESB-18-115.0-115.5	115.20	02/27/18	V		21.52	1.63	2.52	35.47	4.44
PT-ESB-18-124.5-125.0	124.70	02/27/18	V		31.79	1.43	2.64	45.86	2.78
PT-ESB-18-134.5-135.0	134.70	02/27/18	V		36.00	1.35	2.66	49.11	2.87
PT-ESB-18-144.5-145.0	144.70	02/27/18	V		23.08	1.56	2.46	36.88	0.66

(1) Sample Orientation: H = horizontal; V = vertical.

(2) Total Porosity = no pore fluids in place; all interconnected pore channels.

(3) Effective Porosity = drainage porosity.

(4) Vb = Bulk Volume, cc.



Table 2 HYDRAULIC CONDUCTIVITY

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

Sample ID.	Depth, ft.	Sample Orientation ¹	METHODS: API RP 40; ASTM D5084; EPA 9100	
			100 psi Net Confining Stress	
			Effective ^{2,3} Permeability to Water, millidarcy	Saturated Hydraulic Conductivity, ^{2,3} cm/s
PT-ES-15-65.0-65.5	65.20	V	0.016	1.67E-08
PT-ES-15-104.5-105.0	104.70	V	0.038	4.11E-08
PT-ES-15-118.5-119.0	118.70	V	<0.001	<10E-10
PT-ES-17-55.5-56.0	55.60	V	0.005	5.39E-09
PT-ES-17-74.5-75.0	74.70	V	<0.001	<10E-10
PT-ES-25B-25.0-25.5	25.30	V	211.138	2.27E-04
PT-ES-25B-55.0-55.4	55.20	V	<0.001	<10E-10
PT-ES-25B-85.5-86.0	85.70	V	<0.001	<10E-10
PT-ES-26-45.0-45.5	45.20	V	0.131	1.47E-07
PT-ES-26-85.0-85.5	85.20	V	0.047	5.17E-08
PT-ES-26-114.5-115.0	114.70	V	<0.001	<10E-10
PT-ES-27-55.0-55.5	55.30	V	0.106	1.17E-07
PT-ES-27-85.0-85.5	85.20	V	1.028	1.08E-06
PT-ES-27-113.7-114.2	113.90	V	0.040	4.58E-08
PT-ESB18-55.0-55.6	55.20	V	0.002	2.10E-09
PT-ESB18-85.0-85.5	85.20	V	0.068	7.10E-08
PT-ESB18-115.0-115.5	115.20	V	<0.001	<10E-10
PT-ESB18-144.5-145.0	144.70	V	0.030	3.31E-08

(1) Sample Orientation: H = horizontal; V = vertical

(2) Native State or Effective = With as-received pore fluids in place.

(3) Permeability to water and hydraulic conductivity measured at saturated conditions.



Table 3 TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-ES-15-14.5-14.8	14.5-14.8	03/20/18	V		2900	2.90E-03
PT-ES-15-24.5-24.8	24.5-24.8	03/20/18	V		3100	3.10E-03
PT-ES-15-35.0-35.5	35-35.5	03/20/18	V		1700	1.70E-03
PT-ES-1544.5-44.8	44.5-44.8	03/20/18	V		3400	3.40E-03
PT-ES-15-54.7-55.0	54.7-55	03/20/18	V		3900	3.90E-03
PT-ES-15-65.0-65.5	65-65.5	03/20/18	V		4600	4.60E-03
PT-ES-15-74.2-74.7	74.2-74.7	03/20/18	V		3800	3.80E-03
PT-ES-15-84.5-85.0	84.5-85	03/20/18	V		6100	6.10E-03
PT-ES-15-94.5-95.0	94.5-95	03/20/18	V		5400	5.40E-03
PT-ES-15-104.5-105.0	104.5-105	03/20/18	V		6500	6.50E-03
PT-ES-15-112.0-112.3	112-112.3	03/20/18	V		4900	4.90E-03
PT-ES-15-118.5-119.0	118.5-119	03/20/18	V		4400	4.40E-03
PT-ES-17-55.5-56.0	55.5-56	03/19/18	V		4200	4.20E-03
PT-ES-17-74.5-75.0	74.5-75	03/19/18	V		7600	7.60E-03
PT-ES-25B-15.0-15.5	15-15.5	03/06/18	V		2400	2.40E-03
PT-ES-25B-25.0-25.5	25-25.5	03/06/18	V		2400	2.40E-03
PT-ES-25B-35.0-35.6	35-35.6	03/06/18	V		4800	4.80E-03
PT-ES-25B-45.2-45.7	45.2-45.7	03/06/18	V		10900	1.09E-02
PT-ES-25B-55.0-55.4	55-55.4	03/06/18	V		9200	9.20E-03
PT-ES-25B-65.0-65.5	65-65.5	03/06/18	V		14700	1.47E-02
PT-ES-25B-76.5-77.0	76.5-77	03/06/18	V		6400	6.40E-03
PT-ES-25B-85.5-86.0	85.5-86	03/06/18	V		8900	8.90E-03
PT-ES-25B-96.0-96.5	96-96.5	03/06/18	V		9500	9.50E-03



Table 3 TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

Sample ID.	Depth ft.	Sample Date	METHODS:		Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
			Sample ¹ Orientation	Walkley-Black		
PT-ES-25B-106.0-106.5	106-106.5	03/06/18	V		7200	7.20E-03
PT-ES-25B-119.0-119.5	119-119.5	03/06/18	V		7300	7.30E-03
PT-ES-26-15.0-15.3	15-15.3	03/06/18	V		9400	9.40E-03
PT-ES-26-25.0-25.3	25-25.3	03/06/18	V		6200	6.20E-03
PT-ES-26-35.0-35.5	35-35.5	03/06/18	V		6500	6.50E-03
PT-ES-26-45.0-45.5	45-45.5	03/06/18	V		8200	8.20E-03
PT-ES-26-55.0-55.5	55-55.5	03/06/18	V		6000	6.00E-03
PT-ES-26-65.0-65.5	65-65.5	03/06/18	V		5400	5.40E-03
PT-ES-26-75.0-75.5	75-75.5	03/06/18	V		5900	5.90E-03
PT-ES-26-85.0-85.5	85-85.5	03/06/18	V		5900	5.90E-03
PT-ES-26-95.0-95.5	95-95.5	03/06/18	V		6400	6.40E-03
PT-ES-26104.5-105.0	104.5-105	03/06/18	V		5200	5.20E-03
PT-ES-26-114.5-115.0	114.5-115.0	03/06/18	V		8000	8.00E-03
PT-ES-27-16.0-16.3	16-16.3	03/07/18	V		4500	4.50E-03
PT-ES-27-25.0-25.3	25-25.3	03/07/18	V		4900	4.90E-03
PT-ES-27-35.0-35.3	35-35.3	03/07/18	V		3500	3.50E-03
PT-ES-27-45.0-45.3	45-45.3	03/07/18	V		6900	6.90E-03
PT-ES-27-55.0-55.5	55-55.5	03/07/18	V		4600	4.60E-03
PT-ES-27-65.0-65.5	65-65.5	03/07/18	V		4600	4.60E-03
PT-ES-27-75.0-75.5	75-75.5	03/07/18	V		4900	4.90E-03
PT-ES-27-85.0-85.5	85-85.5	03/07/18	V		5600	5.60E-03
PT-ES-27-96.0-96.5	96-96.5	03/07/18	V		4300	4.30E-03
PT-ES-27-106.0-106.5	106-106.5	03/07/18	V		6400	6.40E-03



Table 3 TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

METHODS:				Walkley-Black	
Sample ID.	Depth ft.	Sample Date	Sample ¹ Orientation	Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
PT-ES-27-113.7-114.2	113.7-114.2	03/07/18	V	5200	5.20E-03
PT-ESB-18-14.5-15.0	14.5-15	02/27/18	V	3700	3.70E-03
PT-ESB-18-25.0-25.5	25-25.5	02/27/18	V	3400	3.40E-03
PT-ESB-18-35.0-35.5	35-35.5	02/27/18	V	3800	3.80E-03
PT-ESB-18-45.0-45.5	45-45.5	02/27/18	V	8600	8.60E-03
PT-ESB-18-55.0-55.5	55-55.5	02/27/18	V	6200	6.20E-03
PT-ESB-18-64.5-65.0	64.5-65	02/27/18	V	7100	7.10E-03
PT-ESB-18-74.5-75.0	74.5-75	02/27/18	V	9800	9.80E-03
PT-ESB-18-85.0-85.5	85-85.5	02/27/18	V	10600	1.06E-02
PT-ESB-18-95.0-95.5	95-95.5	02/27/18	V	5800	5.80E-03
PT-ESB-18-104.5-105.0	104.5-105	02/27/18	V	4900	4.90E-03
PT-ESB-18-115.0-115.5	115-115.5	02/27/18	V	4700	4.70E-03
PT-ESB-18-124.5-125.0	124.5-125	02/27/18	V	5900	5.90E-03
PT-ESB-18-134.5-135.0	134.5-135	02/27/18	V	6200	6.20E-03
PT-ESB-18-144.5-145.0	144.5-145	02/27/18	V	13900	1.39E-02

(1) Sample Orientation: H = horizontal; V = vertical.



Table 4
ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI			
PT-ES-15-14.5-14.8	14.5-14.8		Non-Plastic		GP	Poorly graded gravel with sand	Sand
PT-ES-15-24.5-24.8	24.5-24.8		Non-Plastic		GP	Poorly graded gravel with sand	Sand
PT-ES-15-35.0-35.5	35-35.5		Non-Plastic		GP	Poorly graded gravel with sand	Sand
PT-ES-1544.5-44.8	44.5-44.8		Non-Plastic		GP-GM	Poorly graded gravel with silt and sand	Sand
PT-ES-15-54.7-55.0	54.7-55	18	15	3	GP	Poorly graded gravel with sand	Sand
PT-ES-15-65.0-65.5	65-65.5	100*	47	53	MH	Elastic Silt	Silt Loam
PT-ES-15-74.2-74.7	74.2-74.7	80	56	24	MH	Elastic Silt	Silty Clay
PT-ES-15-84.5-85.0	84.5-85	61	34	27	MH	Elastic Silt	Silty Clay Loam
PT-ES-15-94.5-95.0	94.5-95	59	43	16	MH	Elastic Silt	Silt Loam
PT-ES-15-104.5-105.0	104.5-105	77	45	32	MH	Elastic Silt	Silt Loam
PT-ES-15-112.0-112.3	112-112.3	41	35	6	ML	Silt	Silt Loam
PT-ES-15-118.5-119.0	118.5-119	120*	54	66	MH	Elastic Silt	Silty Clay Loam
PT-ES-17-55.5-56.0	55.5-56	62	41	21	MH	Elastic Silt	Silt Loam
PT-ES-17-74.5-75.0	74.5-75	54	36	18	MH	Elastic Silt	Silt Loam
PT-ES-25B-15.0-15.5	15-15.5	104*	85	19	MH	Elastic Silt	Silty Clay
PT-ES-25B-25.0-25.5	25-25.5	110*	77	33	MH	Elastic Silt	Silt Loam
PT-ES-25B-35.0-35.6	35-35.6	109*	74	35	MH	Elastic Silt	Silt Loam
PT-ES-25B-45.2-45.7	45.2-45.7	118*	44	74	CH	Fat Clay	Silty Clay
PT-ES-25B-55.0-55.4	55-55.4	97	66	31	MH	Elastic Silt	Silt Loam
PT-ES-25B-65.0-65.5	65-65.5	92	45	47	MH	Elastic Silt	Silty Clay
PT-ES-25B-76.5-77.0	76.5-77	98	55	43	MH	Elastic Silt	Silty Clay
PT-ES-25B-85.5-86.0	85.5-86	98	59	39	MH	Elastic Silt	Silty Clay Loam



**Table 4
ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA**

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI			
PT-ES-25B-96.0-96.5	96-96.5	103*	62	41	MH	Elastic Silt	Silty Clay
PT-ES-25B-106.0-106.5	106-106.5	88	39	49	MH	Elastic Silt	Silt Loam
PT-ES-25B-119.0-119.5	119-119.5	62	42	20	MH	Elastic Silt	Silt Loam
PT-ES-26-15.0-15.3	15-15.3	61	49	12	MH	Elastic Silt	Silty Clay Loam
PT-ES-26-25.0-25.3	25-25.3	116*	87	29	MH	Elastic Silt	Silt Loam
PT-ES-26-35.0-35.5	35-35.5	103*	44	59	MH	Elastic Silt	Silt Loam
PT-ES-26-45.0-45.5	45-45.5	129*	111	18	MH	Elastic Silt with Sand	Silt Loam
PT-ES-26-55.0-55.5	55-55.5	123*	98	25	MH	Elastic Silt	Silty Clay Loam
PT-ES-26-65.0-65.5	65-65.5	103*	78	25	MH	Elastic Silt	Silt Loam
PT-ES-26-75.0-75.5	75-75.5	73	65	8	MH	Elastic Silt	Silty Clay Loam
PT-ES-26-85.0-85.5	85-85.5	81	45	36	MH	Elastic Silt	Silt Loam
PT-ES-26-95.0-95.5	95-95.5	87	41	46	MH	Elastic Silt	Silty Clay Loam
PT-ES-26104.5-105.0	104.5-105	83	31	52	CH	Fat Clay with Sand	Silt Loam
PT-ES-26-114.5-115.0	114.5-115.0	86	68	18	MH	Elastic Silt	Silt Loam
PT-ES-27-16.0-16.3	16-16.3	24	22	2	GP	Poorly graded gravel with sand	Sand
PT-ES-27-25.0-25.3	25-25.3	21	20	1	GP-GM	Poorly graded gravel with silt and sand	Sand
PT-ES-27-35.0-35.3	35-35.3	24	21	3	GP-GM	Poorly graded gravel with silt and sand	Sand
PT-ES-27-45.0-45.3	45-45.3	130*	95	35	MH	Elastic Silt	Silt Loam
PT-ES-27-55.0-55.5	55-55.5	57	44	13	MH	Elastic Silt	Silt Loam
PT-ES-27-65.0-65.5	65-65.5	83	61	22	MH	Elastic Silt	Silt Loam
PT-ES-27-75.0-75.5	75-75.5	41	27	14	ML	Sandy Silt	Silt Loam
PT-ES-27-85.0-85.5	85-85.5	76	62	14	MH	Sandy Elastic Silt	Sandy Loam



**Table 4
ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA**

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1801096EN

Project Name : Nevada Environmental Response Trust (NERT)

Project Number : 1690006943-038

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI			
PT-ES-27-96.0-96.5	96-96.5	123*	49	74	MH	Elastic Silt	Silt Loam
PT-ES-27-106.0-106.5	106-106.5	61	41	20	MH	Elastic Silt	Silt Loam
PT-ES-27-113.7-114.2	113.7-114.2	75	48	27	MH	Elastic Silt	Silt Loam
PT-ESB-18-14.5-15.0	14.5-15	25	24	1	GP-GM	Poorly graded gravel with silt and sand	Sand
PT-ESB-18-25.0-25.5	25-25.5	23	21	2	GP	Poorly graded gravel with sand	Sand
PT-ESB-18-35.0-35.5	35-35.5	22	22	0	GP-GM	Poorly graded gravel with silt and sand	Sand
PT-ESB-18-45.0-45.5	45-45.5	100*	74	26	MH	Elastic Silt	Silty Clay Loam
PT-ESB-18-55.0-55.5	55-55.5	90	57	33	MH	Elastic Silt	Silty Clay Loam
PT-ESB-18-64.5-65.0	64.5-65	135*	72	63	MH	Elastic Silt	Silt Loam
PT-ESB-18-74.5-75.0	74.5-75	64	44	20	MH	Elastic Silt	Silt Loam
PT-ESB-18-85.0-85.5	85-85.5	97	73	24	MH	Elastic Silt	Silt Loam
PT-ESB-18-95.0-95.5	95-95.5	115*	59	56	MH	Elastic Silt	Silty Clay
PT-ESB-18-104.5-105.0	104.5-105	92	54	38	MH	Elastic Silt	Silty Clay Loam
PT-ESB-18-115.0-115.5	115-115.5	54	35	19	MH	Elastic Silt	Silty Clay Loam
PT-ESB-18-124.5-125.0	124.5-125	97	52	45	MH	Elastic Silt	Silty Clay Loam
PT-ESB-18-134.5-135.0	134.5-135	96	47	49	MH	Elastic Silt	Silty Clay
PT-ESB-18-144.5-145.0	144.5-145	102*	55	47	MH	Elastic Silt	Silt Loam

USCS: Unified Soil Classification System

USDA: US Department of Agriculture

SCS: Soil Conservation Service

* Grain size analysis indicates swelling clays.

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.

(2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.



Table 5 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ES15-14.5-14.8	gran	2.2368	54.10	22.16	11.13	5.49	2.93	1.75	1.85	0.60	2.5
PT-ES15-24.5-24.8	gran	2.9144	68.31	13.83	7.48	3.38	1.87	1.47	2.85	0.82	3.7
PT-ES15-35.0-35.3	gran	2.8535	66.34	16.84	7.57	3.08	1.47	1.08	2.66	0.96	3.6
PT-ES15-44.5-44.8	gran	3.2829	69.99	10.69	5.96	3.34	1.70	1.56	5.08	1.68	6.8
PT-ES15-54.7-55.0	gran	3.1828	73.63	15.78	6.53	1.63	0.49	0.32	1.08	0.53	1.6
PT-ES15-65.0-65.5	silt	0.0080	0.00	0.00	0.00	0.00	0.00	0.10	74.14	25.76	99.9
PT-ES15-74.2-74.7	silt	0.0048	0.00	0.00	0.00	0.00	0.00	0.00	57.03	42.97	100.0
PT-ES15-84.5-85.0	silt	0.0061	0.00	0.00	0.00	0.00	0.00	0.00	65.45	34.55	100.0
PT-ES15-94.5-95.0	silt	0.0130	0.00	0.00	0.00	0.00	0.00	5.31	75.11	19.58	94.7
PT-ES15-104.5-105.0	silt	0.0108	0.00	0.00	0.00	0.00	0.00	0.58	75.83	23.60	99.42
PT-ES15-112.0-112.3	silt	0.0117	0.00	0.00	0.00	0.00	0.00	8.07	67.23	24.70	91.9
PT-ES15-118.5-119.0	silt	0.0066	0.00	0.00	0.00	0.00	0.00	0.03	64.02	35.95	100.0



Table 6
SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ES17-55.5-56.0	silt	0.0116	0.00	0.00	0.00	0.00	0.00	2.94	72.29	24.77	97.1
PT-ES17-74.5-75.0	silt	0.0095	0.00	0.00	0.00	0.00	0.00	2.39	73.64	23.97	97.6



Table 7 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ES25B-15.0-15.5	silt	0.0049	0.00	0.00	0.00	0.00	0.00	0.00	57.54	42.46	100.0
PT-ES25B-25.0-25.5	silt	0.0156	0.00	0.00	0.00	0.00	0.85	14.40	65.19	19.56	84.7
PT-ES25B-35.0-35.6	silt	0.0121	0.00	0.00	0.00	0.00	0.00	4.58	72.35	23.07	95.4
PT-ES25B-45.2-45.7	silt	0.0056	0.00	0.00	0.00	0.00	0.00	0.00	56.88	43.12	100.0
PT-ES25B-55.0-55.4	silt	0.0109	0.00	0.00	0.00	0.00	0.00	5.20	67.87	26.93	94.8
PT-ES25B-65.0-65.5	clay	0.0033	0.00	0.00	0.00	0.00	0.00	0.00	45.83	54.17	100.0
PT-ES25B-76.5-77.0	silt	0.0040	0.00	0.00	0.00	0.00	0.00	0.00	51.27	48.73	100.0
PT-ES25B-85.5-86.0	silt	0.0088	0.00	0.00	0.00	0.00	0.00	3.37	67.07	29.56	96.6
PT-ES25B-96.0-96.5	silt	0.0048	0.00	0.00	0.00	0.00	0.00	0.00	57.18	42.82	100.0
PT-ES25B-106.0-106.5	silt	0.0134	0.00	0.00	0.00	0.00	0.09	7.95	71.37	20.59	91.97
PT-ES25B-119.0-119.5	silt	0.0130	0.00	0.00	0.00	0.00	0.01	8.54	71.10	20.36	91.5



Table 8 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ES26-15.0-15.3	silt	0.0052	0.00	0.00	0.00	0.00	0.00	0.00	62.85	37.15	100.0
PT-ES26-25.0-25.3	silt	0.0107	0.00	0.00	0.00	0.00	0.00	3.89	73.32	22.80	96.1
PT-ES26-35.0-35.3	silt	0.0150	0.00	0.00	0.00	0.00	0.35	12.46	68.80	18.38	87.2
PT-ES26-45.0-45.5	silt	0.0186	0.00	0.00	0.00	0.61	6.06	13.25	65.30	14.78	80.1
PT-ES26-55.0-55.5	silt	0.0062	0.00	0.00	0.00	0.00	0.00	0.02	66.07	33.91	100.0
PT-ES26-65.0-65.5	silt	0.0095	0.00	0.00	0.00	0.00	0.00	2.44	74.91	22.65	97.6
PT-ES26-75.0-75.5	silt	0.0067	0.00	0.00	0.00	0.00	0.00	0.08	65.36	34.56	99.9
PT-ES26-85.0-85.5	silt	0.0112	0.00	0.00	0.00	0.00	0.00	4.07	72.07	23.87	95.9
PT-ES26-95.0-95.5	silt	0.0072	0.00	0.00	0.00	0.00	0.00	0.05	67.04	32.91	99.9
PT-ES26-104.5-105.0	silt	0.0243	0.00	0.00	0.00	0.66	7.74	18.10	59.27	14.23	73.50
PT-ES26-114.5-115.0	silt	0.0130	0.00	0.00	0.00	0.00	0.00	9.68	71.69	18.63	90.3



Table 9 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ES27-16.0-16.3	gran	2.2535	55.85	24.33	9.33	3.84	1.60	1.55	2.47	1.02	3.5
PT-ES27-25.0-25.3	vcgr	1.9831	49.73	19.96	12.28	5.58	3.07	2.44	4.96	1.97	6.9
PT-ES27-35.0-35.3	vcgr	2.1377	52.98	22.33	11.24	4.43	1.70	1.40	4.01	1.90	5.9
PT-ES27-45.0-45.3	silt	0.0179	0.00	0.00	0.00	0.00	2.26	13.34	67.40	17.01	84.4
PT-ES27-55.0-55.5	silt	0.0264	0.00	0.05	4.23	2.66	5.77	15.12	60.95	11.22	72.2
PT-ES27-65.0-65.5	silt	0.0162	0.00	0.00	0.00	0.00	0.31	10.05	72.07	17.58	89.6
PT-ES27-75.0-75.5	silt	0.0404	0.00	4.54	3.41	3.56	8.64	18.18	52.25	9.44	61.7
PT-ES27-85.0-85.5	silt	0.0517	0.00	6.96	1.19	2.70	12.05	21.75	49.47	5.88	55.3
PT-ES27-96.0-96.5	silt	0.0182	0.00	0.00	0.00	0.00	1.45	11.08	72.78	14.68	87.5
PT-ES27-106.0-106.5	silt	0.0126	0.00	0.00	0.00	0.00	0.00	6.34	73.04	20.62	93.66
PT-ES27-113.7-114.2	silt	0.0111	0.00	0.00	0.00	0.00	0.00	7.37	65.88	26.75	92.6



Table 10 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
PT-ESB18-14.5-15.0	gran	3.1355	63.59	14.35	8.64	4.33	2.18	1.62	4.01	1.30	5.3
PT-ESB18-25.0-25.5	gran	2.6654	64.22	16.02	9.21	3.72	1.88	1.40	2.60	0.95	3.5
PT-ESB18-35.0-35.5	gran	2.7778	59.85	16.99	8.90	4.44	2.48	1.66	4.03	1.66	5.7
PT-ESB18-45.0-45.5	silt	0.0067	0.00	0.00	0.00	0.00	0.00	0.05	66.65	33.30	99.9
PT-ESB18-55.0-55.6	silt	0.0064	0.00	0.00	0.00	0.00	0.00	0.02	67.36	32.62	100.0
PT-ESB18-64.5-65.0	silt	0.0117	0.00	0.00	0.00	0.00	0.00	6.66	69.34	23.99	93.3
PT-ESB18-74.5-75.0	silt	0.0096	0.00	0.00	0.00	0.00	0.00	1.00	73.97	25.03	99.0
PT-ESB18-85.0-85.5	silt	0.0169	0.00	0.00	0.00	0.00	0.48	11.21	71.74	16.57	88.3
PT-ESB18-95.0-95.5	silt	0.0043	0.00	0.00	0.00	0.00	0.00	0.00	53.03	46.97	100.0
PT-ESB18-104.5-105.0	silt	0.0077	0.00	0.00	0.00	0.00	0.00	0.13	69.66	30.21	99.87
PT-ESB18-115.0-115.5	silt	0.0079	0.00	0.00	0.00	0.00	0.00	2.01	65.77	32.22	98.0
PT-ESB18-124.5-125.0	silt	0.0053	0.00	0.00	0.00	0.00	0.00	0.00	60.47	39.53	100.0
PT-ESB18-134.5-135.0	clay	0.0033	0.00	0.00	0.00	0.00	0.00	0.00	43.08	56.92	100.0
PT-ESB18-144.5-145.0	silt	0.0103	0.00	0.00	0.00	0.00	0.00	3.95	71.57	24.48	96.1



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 1690006943-038

CL File Number: 1801096

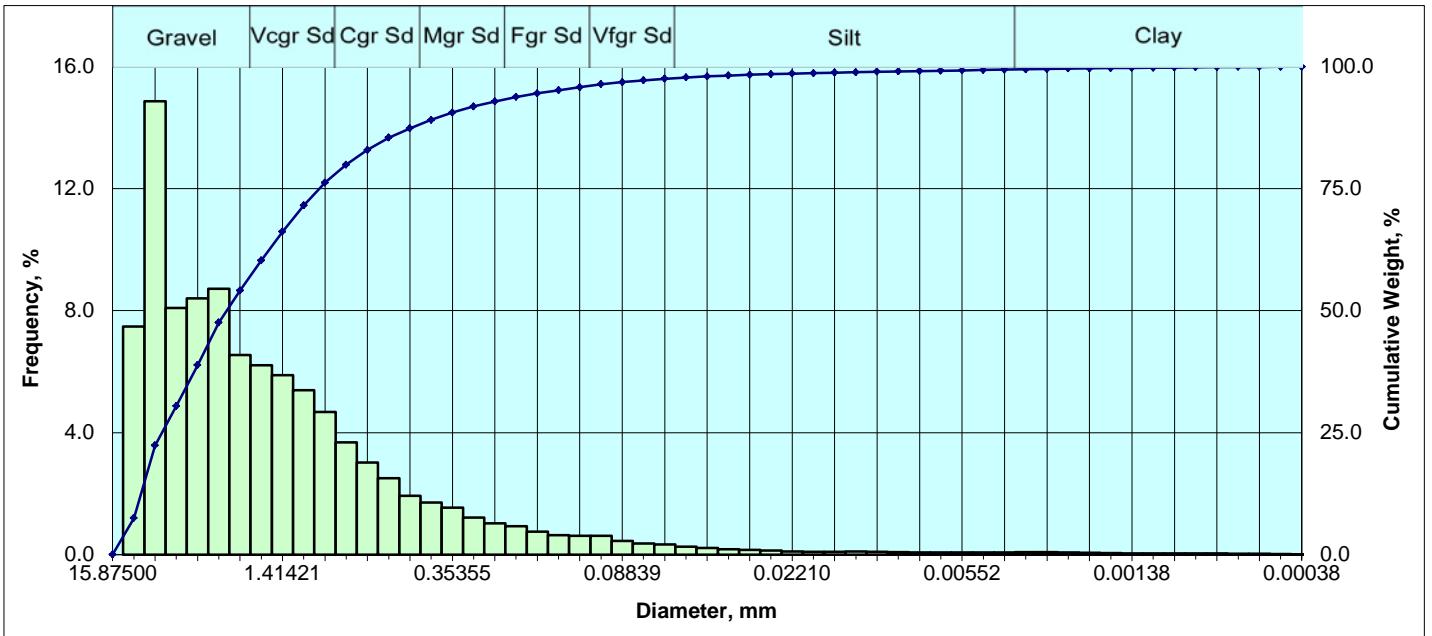
APPENDIX 1

Particle Distribution Plots

Boring ES-15



Sieve and Laser Particle Size Analysis

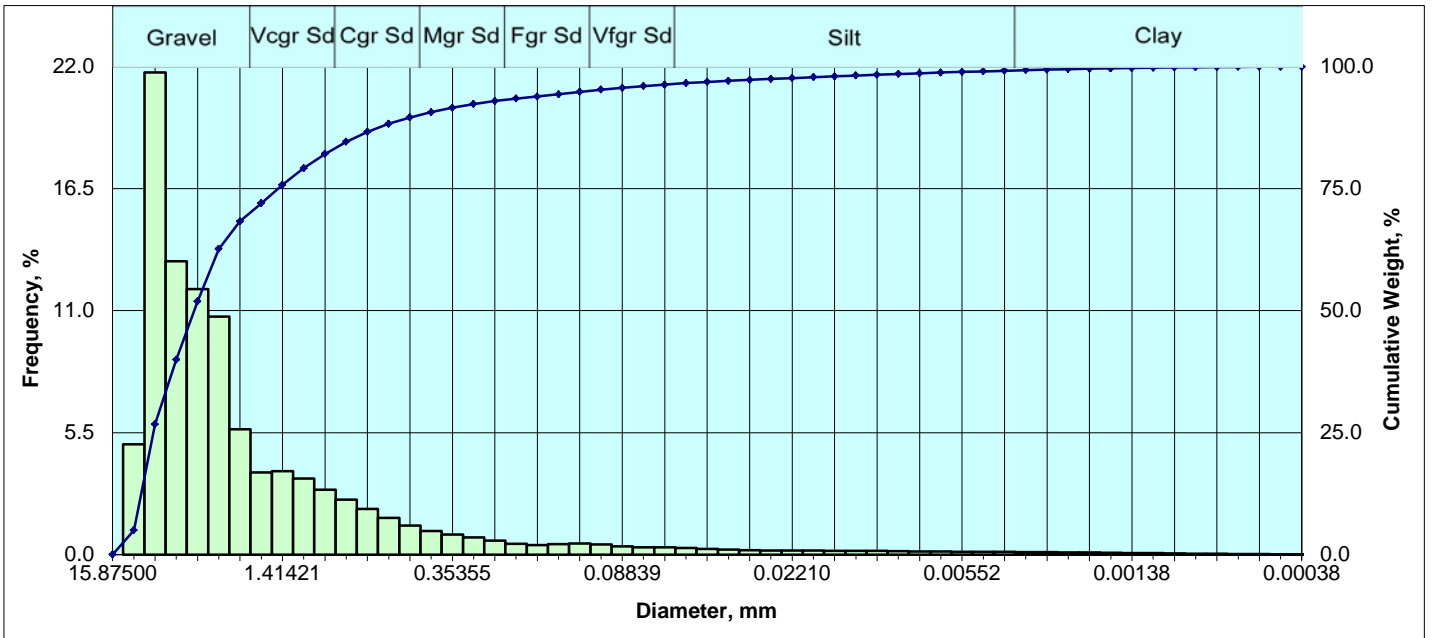


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	0.000	0.000
		0.375000	9.525000	-3.25	7.479	7.479
	5	0.157480	4.00000	-2.00	14.871	22.350
	6	0.132425	3.36359	-1.75	8.086	30.436
	7	0.111355	2.82843	-1.50	8.400	38.836
V Crse Sand	8	0.093638	2.37841	-1.25	8.715	47.550
	10	0.078740	2.00000	-1.00	6.547	54.097
	12	0.066212	1.68179	-0.75	6.209	60.306
	14	0.055678	1.41421	-0.50	5.880	66.187
Coarse Sand	16	0.046819	1.18921	-0.25	5.390	71.577
	18	0.039370	1.00000	0.00	4.679	76.256
	20	0.033106	0.84090	0.25	3.681	79.937
Medium Sand	25	0.027839	0.70711	0.50	3.017	82.954
	30	0.023410	0.59460	0.75	2.502	85.456
	35	0.019685	0.50000	1.00	1.930	87.385
	40	0.016553	0.42045	1.25	1.709	89.094
Fine Sand	45	0.013919	0.35355	1.50	1.538	90.632
	50	0.011705	0.29730	1.75	1.218	91.851
	60	0.009843	0.25000	2.00	1.023	92.873
	70	0.008277	0.21022	2.25	0.930	93.803
V. Fine Sand	80	0.006960	0.17678	2.50	0.752	94.555
	100	0.005852	0.14865	2.75	0.631	95.187
	120	0.004921	0.12500	3.00	0.613	95.800
	140	0.004138	0.10511	3.25	0.612	96.413
Silt	170	0.003480	0.08839	3.50	0.447	96.859
	200	0.002926	0.07433	3.75	0.358	97.218
	230	0.002461	0.06250	4.00	0.330	97.547
	270	0.002069	0.05256	4.25	0.260	97.807
	325	0.001740	0.04419	4.50	0.216	98.023
	400	0.001463	0.03716	4.75	0.177	98.200
	450	0.001230	0.03125	5.00	0.155	98.355
	500	0.001035	0.02628	5.25	0.136	98.491
	635	0.000870	0.02210	5.50	0.106	98.596
		0.000732	0.01858	5.75	0.091	98.687
Clay		0.000615	0.01562	6.00	0.094	98.781
		0.000517	0.01314	6.25	0.098	98.878
		0.000435	0.01105	6.50	0.091	98.970
		0.000366	0.00929	6.75	0.081	99.050
		0.000308	0.00781	7.00	0.072	99.123
		0.000259	0.00657	7.25	0.069	99.191
		0.000217	0.00552	7.50	0.068	99.259
		0.000183	0.00465	7.75	0.069	99.329
		0.000154	0.00391	8.00	0.073	99.402
		0.000129	0.00328	8.25	0.076	99.478
		0.000109	0.00276	8.50	0.076	99.554
		0.000091	0.00232	8.75	0.071	99.624
		0.000077	0.00195	9.00	0.061	99.685
		0.000065	0.00164	9.25	0.050	99.736
		0.000054	0.00138	9.50	0.042	99.778
	0.000046	0.00116	9.75	0.037	99.815	
	0.000038	0.00098	10.00	0.036	99.851	
	0.000032	0.00082	10.25	0.037	99.888	
	0.000027	0.00069	10.50	0.037	99.925	
	0.000023	0.00058	10.75	0.033	99.958	
	0.000019	0.00049	11.00	0.025	99.983	
	0.000016	0.00041	11.25	0.014	99.997	
	0.000015	0.00038	11.50	0.003	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.0881	0.0881	0.0881	
(mm)	2.2368	2.2368	2.2368	
Mean	Granule sized			
(in)	0.0953	0.0807	0.0831	
(mm)	2.4211	2.0488	2.1096	
Sorting	Poor			
	1.900	1.634	1.758	
Skewness	Finely skewed			
	0.892	0.445	0.156	
Kurtosis	Lepokurtic			
	0.167	0.901	1.375	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
54.10	43.45	1.85	0.60	2.45
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.4579	11.6297	-3.5397	
10	0.3381	8.5883	-3.1024	
16	0.2504	6.3592	-2.6688	
25	0.1493	3.7914	-1.9227	
30	0.1338	3.3979	-1.7646	
50	0.0881	2.2368	-1.1615	
60	0.0668	1.6975	-0.7634	
75	0.0414	1.0508	-0.0715	
84	0.0260	0.6601	0.5993	
90	0.0150	0.3811	1.3919	
95	0.0062	0.1570	2.6714	



Sieve and Laser Particle Size Analysis

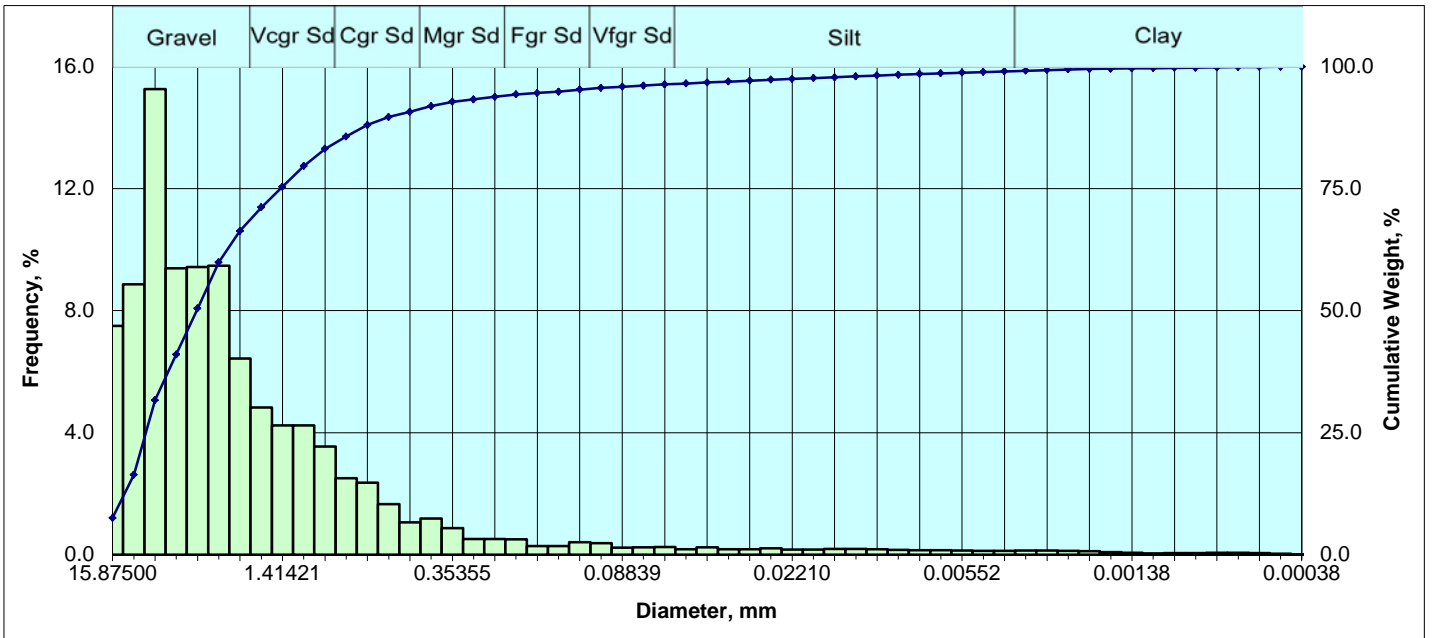


Particle Size Distribution							
	Diameter				Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]	
Granule		0.625000	15.87500	-3.99	0.000	0.000	
		0.375000	9.525000	-3.25	4.978	4.978	
	5	0.157480	4.000000	-2.00	21.737	26.716	
	6	0.132425	3.36359	-1.75	13.229	39.944	
	7	0.111355	2.82843	-1.50	11.979	51.924	
V Crse Sand	8	0.093638	2.37841	-1.25	10.730	62.654	
	10	0.078740	2.00000	-1.00	5.653	68.306	
	12	0.066212	1.68179	-0.75	3.708	72.014	
	14	0.055678	1.41421	-0.50	3.764	75.778	
	16	0.046819	1.18921	-0.25	3.431	79.209	
Coarse Sand	18	0.039370	1.00000	0.00	2.924	82.133	
	20	0.033106	0.84090	0.25	2.471	84.603	
	25	0.027839	0.70711	0.50	2.055	86.659	
	30	0.023410	0.59460	0.75	1.651	88.310	
	35	0.019685	0.50000	1.00	1.303	89.613	
Medium Sand	40	0.016553	0.42045	1.25	1.069	90.682	
	45	0.013919	0.35355	1.50	0.909	91.591	
	50	0.011705	0.29730	1.75	0.774	92.365	
	60	0.009843	0.25000	2.00	0.625	92.990	
	70	0.008277	0.21022	2.25	0.484	93.474	
Fine Sand	80	0.006960	0.17678	2.50	0.423	93.897	
	100	0.005852	0.14865	2.75	0.466	94.363	
	120	0.004921	0.12500	3.00	0.501	94.864	
	140	0.004138	0.10511	3.25	0.450	95.314	
	170	0.003480	0.08839	3.50	0.371	95.685	
V. Fine Sand	200	0.002926	0.07433	3.75	0.331	96.016	
	230	0.002461	0.06250	4.00	0.322	96.339	
	270	0.002069	0.05256	4.25	0.301	96.639	
	325	0.001740	0.04419	4.50	0.257	96.897	
	400	0.001463	0.03716	4.75	0.219	97.115	
Silt	450	0.001230	0.03125	5.00	0.198	97.314	
	500	0.001035	0.02628	5.25	0.188	97.502	
	635	0.000870	0.02210	5.50	0.181	97.683	
		0.000732	0.01858	5.75	0.176	97.859	
		0.000615	0.01562	6.00	0.175	98.034	
		0.000517	0.01314	6.25	0.173	98.207	
		0.000435	0.01105	6.50	0.165	98.371	
		0.000366	0.00929	6.75	0.154	98.525	
		0.000308	0.00781	7.00	0.144	98.669	
		0.000259	0.00657	7.25	0.136	98.805	
		0.000217	0.00552	7.50	0.131	98.936	
		0.000183	0.00465	7.75	0.126	99.062	
		0.000154	0.00391	8.00	0.122	99.184	
	Clay		0.000129	0.00328	8.25	0.117	99.301
			0.000109	0.00276	8.50	0.110	99.410
		0.000091	0.00232	8.75	0.101	99.511	
		0.000077	0.00195	9.00	0.091	99.602	
		0.000065	0.00164	9.25	0.080	99.682	
		0.000054	0.00138	9.50	0.070	99.751	
		0.000046	0.00116	9.75	0.060	99.811	
		0.000038	0.00098	10.00	0.051	99.863	
		0.000032	0.00082	10.25	0.043	99.906	
		0.000027	0.00069	10.50	0.035	99.941	
		0.000023	0.00058	10.75	0.027	99.969	
		0.000019	0.00049	11.00	0.019	99.987	
		0.000016	0.00041	11.25	0.010	99.998	
		0.000015	0.00038	11.50	0.002	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.1147	0.1147	0.1147	
(mm)	2.9144	2.9144	2.9144	
Mean	Granule sized			
(in)	0.1163	0.0958	0.1017	
(mm)	2.9528	2.4321	2.5833	
Sorting	Poor			
	1.737	1.467	1.691	
Skewness	Strongly fine skewed			
	0.876	0.991	0.319	
Kurtosis	Very leptokurtic			
	0.191	1.155	1.626	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
68.31	28.03	2.85	0.82	3.66
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3748	9.5195	-3.2509	
10	0.3247	8.2486	-3.0441	
16	0.2647	6.7236	-2.7492	
25	0.1746	4.4361	-2.1493	
30	0.1513	3.8420	-1.9419	
50	0.1147	2.9144	-1.5432	
60	0.0980	2.4897	-1.3160	
75	0.0579	1.4695	-0.5554	
84	0.0346	0.8798	0.1848	
90	0.0186	0.4712	1.0856	
95	0.0047	0.1190	3.0712	



Sieve and Laser Particle Size Analysis

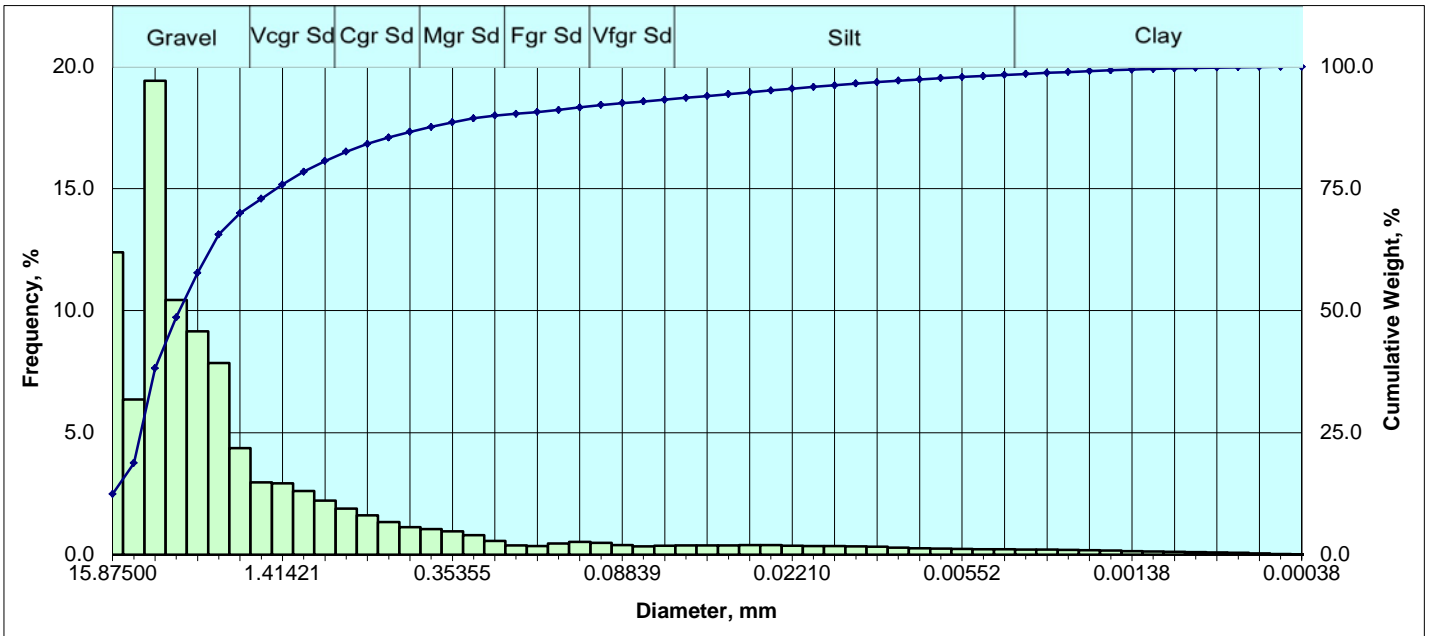


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	7.498	7.498
		0.375000	9.525000	-3.25	8.868	16.366
	5	0.157480	4.00000	-2.00	15.264	31.630
	6	0.132425	3.36359	-1.75	9.385	41.015
	7	0.111355	2.82843	-1.50	9.427	50.443
V Crse Sand	8	0.093638	2.37841	-1.25	9.469	59.911
	10	0.078740	2.00000	-1.00	6.430	66.341
	12	0.066212	1.68179	-0.75	4.819	71.160
	14	0.055678	1.41421	-0.50	4.238	75.399
Coarse Sand	16	0.046819	1.18921	-0.25	4.233	79.632
	18	0.039370	1.00000	0.00	3.548	83.179
	20	0.033106	0.84090	0.25	2.507	85.687
Medium Sand	25	0.027839	0.70711	0.50	2.358	88.045
	30	0.023410	0.59460	0.75	1.654	89.698
	35	0.019685	0.50000	1.00	1.056	90.754
	40	0.016553	0.42045	1.25	1.184	91.938
Fine Sand	45	0.013919	0.35355	1.50	0.863	92.801
	50	0.011705	0.29730	1.75	0.514	93.316
	60	0.009843	0.25000	2.00	0.514	93.829
	70	0.008277	0.21022	2.25	0.495	94.324
V. Fine Sand	80	0.006960	0.17678	2.50	0.285	94.609
	100	0.005852	0.14865	2.75	0.283	94.892
	120	0.004921	0.12500	3.00	0.405	95.297
	140	0.004138	0.10511	3.25	0.376	95.673
Silt	170	0.003480	0.08839	3.50	0.228	95.902
	200	0.002926	0.07433	3.75	0.234	96.136
	230	0.002461	0.06250	4.00	0.245	96.381
	270	0.002069	0.05256	4.25	0.172	96.553
	325	0.001740	0.04419	4.50	0.234	96.787
	400	0.001463	0.03716	4.75	0.175	96.962
	450	0.001230	0.03125	5.00	0.171	97.133
	500	0.001035	0.02628	5.25	0.204	97.337
	635	0.000870	0.02210	5.50	0.167	97.504
		0.000732	0.01858	5.75	0.162	97.666
Clay		0.000615	0.01562	6.00	0.182	97.848
		0.000517	0.01314	6.25	0.187	98.035
		0.000435	0.01105	6.50	0.175	98.211
		0.000366	0.00929	6.75	0.156	98.367
		0.000308	0.00781	7.00	0.145	98.512
		0.000259	0.00657	7.25	0.141	98.652
		0.000217	0.00552	7.50	0.134	98.787
		0.000183	0.00465	7.75	0.126	98.913
		0.000154	0.00391	8.00	0.125	99.037
		0.000129	0.00328	8.25	0.130	99.168
		0.000109	0.00276	8.50	0.134	99.302
		0.000091	0.00232	8.75	0.127	99.429
		0.000077	0.00195	9.00	0.106	99.536
		0.000065	0.00164	9.25	0.079	99.615
		0.000054	0.00138	9.50	0.056	99.670
	0.000046	0.00116	9.75	0.043	99.714	
	0.000038	0.00098	10.00	0.043	99.757	
	0.000032	0.00082	10.25	0.050	99.808	
	0.000027	0.00069	10.50	0.057	99.864	
	0.000023	0.00058	10.75	0.056	99.921	
	0.000019	0.00049	11.00	0.046	99.967	
	0.000016	0.00041	11.25	0.027	99.994	
	0.000015	0.00038	11.50	0.006	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.1123	0.1123	0.1123	
(mm)	2.8535	2.8535	2.8535	
Mean	Granule sized			
(in)	0.1543	0.1199	0.1173	
(mm)	3.9196	3.0459	2.9804	
Sorting	#/N/A			
	2.109	1.684	**	
Skewness	#/N/A			
	1.064	**	**	
Kurtosis	#/N/A			
	0.184	**	**	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
66.34	30.04	2.66	0.96	3.62
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	**	**	**	
10	0.5545	14.0836	-3.8159	
16	0.3853	9.7871	-3.2909	
25	0.2520	6.3998	-2.6780	
30	0.1807	4.5900	-2.1985	
50	0.1123	2.8535	-1.5128	
60	0.0934	2.3732	-1.2468	
75	0.0567	1.4394	-0.5255	
84	0.0373	0.9479	0.0771	
90	0.0223	0.5676	0.8171	
95	0.0056	0.1423	2.8125	



Sieve and Laser Particle Size Analysis

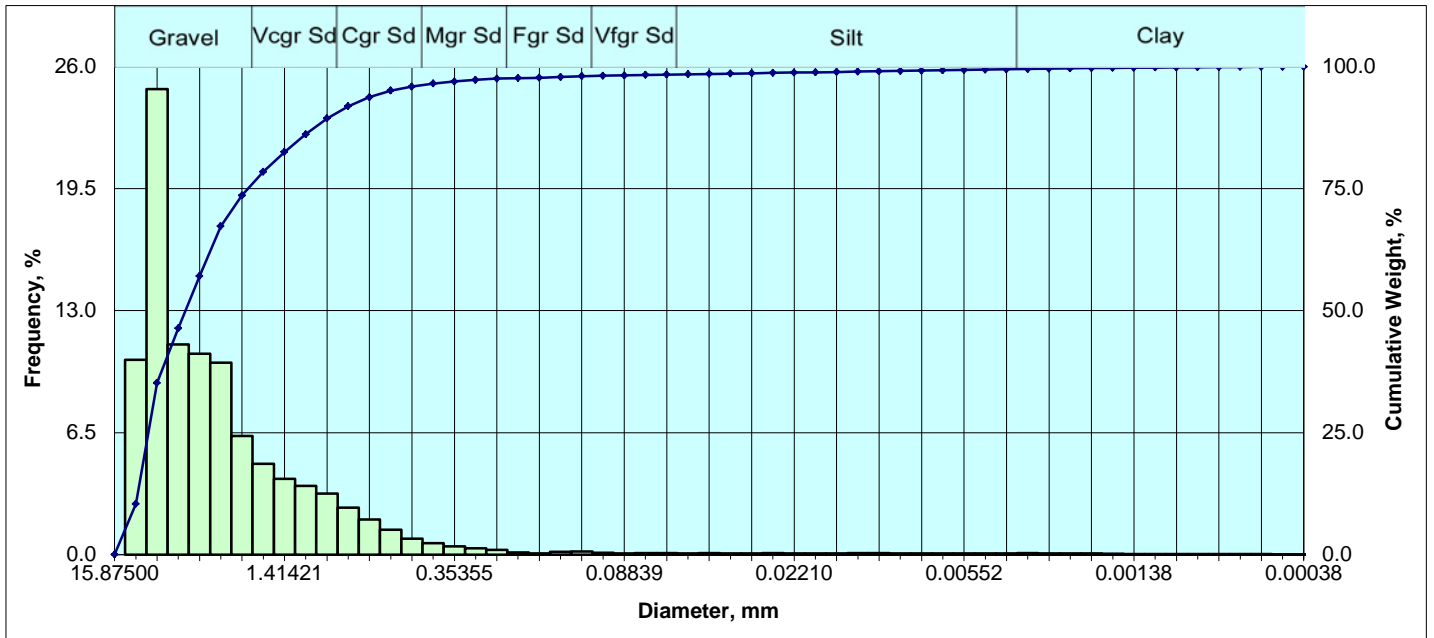


	Particle Size Distribution					
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	12.395	12.395
		0.375000	9.525000	-3.25	6.360	18.755
	5	0.157480	4.00000	-2.00	19.425	38.180
	6	0.132425	3.36359	-1.75	10.441	48.621
	7	0.111355	2.82843	-1.50	9.148	57.768
V Crse Sand	8	0.093638	2.37841	-1.25	7.854	65.623
	10	0.078740	2.00000	-1.00	4.368	69.990
	12	0.066212	1.68179	-0.75	2.956	72.946
	14	0.055678	1.41421	-0.50	2.920	75.866
Coarse Sand	16	0.046819	1.18921	-0.25	2.605	78.471
	18	0.039370	1.00000	0.00	2.206	80.678
	20	0.033106	0.84090	0.25	1.891	82.568
Medium Sand	25	0.027839	0.70711	0.50	1.611	84.179
	30	0.023410	0.59460	0.75	1.331	85.510
	35	0.019685	0.50000	1.00	1.126	86.636
Fine Sand	40	0.016553	0.42045	1.25	1.039	87.675
	45	0.013919	0.35355	1.50	0.958	88.633
	50	0.011705	0.29730	1.75	0.790	89.423
V. Fine Sand	60	0.009843	0.25000	2.00	0.558	89.981
	70	0.008277	0.21022	2.25	0.381	90.362
	80	0.006960	0.17678	2.50	0.349	90.710
Silt	100	0.005852	0.14865	2.75	0.449	91.159
	120	0.004921	0.12500	3.00	0.524	91.683
	140	0.004138	0.10511	3.25	0.478	92.161
Clay	170	0.003480	0.08839	3.50	0.383	92.544
	200	0.002926	0.07433	3.75	0.342	92.886
	230	0.002461	0.06250	4.00	0.361	93.247
	270	0.002069	0.05256	4.25	0.381	93.628
	325	0.001740	0.04419	4.50	0.379	94.007
	400	0.001463	0.03716	4.75	0.378	94.385
	450	0.001230	0.03125	5.00	0.387	94.772
	500	0.001035	0.02628	5.25	0.383	95.155
	635	0.000870	0.02210	5.50	0.361	95.516
		0.000732	0.01858	5.75	0.344	95.861
		0.000615	0.01562	6.00	0.344	96.205
		0.000517	0.01314	6.25	0.342	96.547
		0.000435	0.01105	6.50	0.319	96.866
		0.000366	0.00929	6.75	0.288	97.154
		0.000308	0.00781	7.00	0.261	97.415
	0.000259	0.00657	7.25	0.242	97.657	
	0.000217	0.00552	7.50	0.229	97.886	
	0.000183	0.00465	7.75	0.221	98.106	
	0.000154	0.00391	8.00	0.216	98.323	
	0.000129	0.00328	8.25	0.211	98.534	
	0.000109	0.00276	8.50	0.203	98.737	
	0.000091	0.00232	8.75	0.192	98.929	
	0.000077	0.00195	9.00	0.177	99.106	
	0.000065	0.00164	9.25	0.160	99.266	
	0.000054	0.00138	9.50	0.145	99.411	
	0.000046	0.00116	9.75	0.131	99.542	
	0.000038	0.00098	10.00	0.117	99.658	
	0.000032	0.00082	10.25	0.103	99.761	
	0.000027	0.00069	10.50	0.087	99.849	
	0.000023	0.00058	10.75	0.069	99.918	
	0.000019	0.00049	11.00	0.049	99.967	
	0.000016	0.00041	11.25	0.026	99.994	
	0.000015	0.00038	11.50	0.006	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.1292	0.1292	0.1292	
(mm)	3.2829	3.2829	3.2829	
Mean	Granule sized			
(in)	0.1819	0.1172	0.1211	
(mm)	4.6212	2.9770	3.0757	
Sorting	#/N/A			
	2.278	2.044	**	
Skewness	#/N/A			
	1.036	**	**	
Kurtosis	#/N/A			
	**	**	**	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
69.99	23.26	5.08	1.68	6.75
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[φ]	
5	**	**	**	
10	**	**	**	
16	0.4833	12.2754	-3.6177	
25	0.3051	7.7487	-2.9540	
30	0.2491	6.3266	-2.6614	
50	0.1292	3.2829	-1.7150	
60	0.1063	2.7006	-1.4333	
75	0.0588	1.4936	-0.5788	
84	0.0284	0.7220	0.4700	
90	0.0098	0.2480	2.0116	
95	0.0011	0.0283	5.1435	



Sieve and Laser Particle Size Analysis

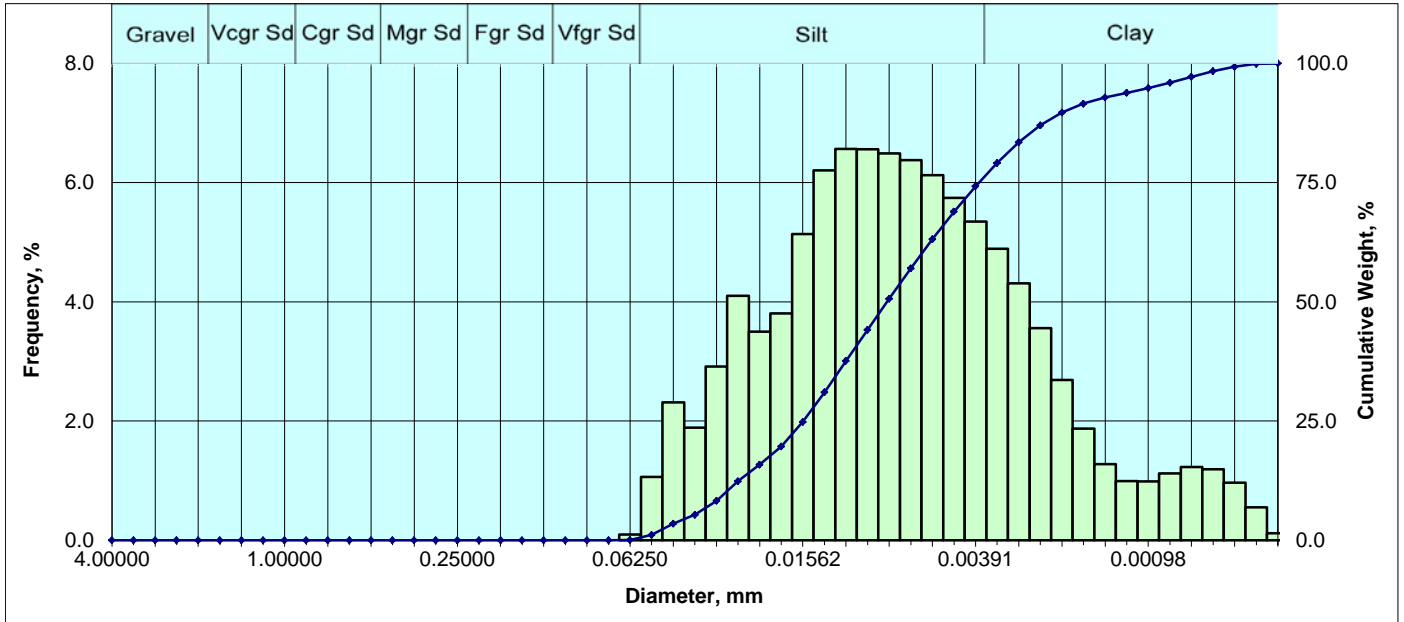


	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	0.000	0.000
		0.375000	9.525000	-3.25	10.375	10.375
	5	0.157480	4.00000	-2.00	24.809	35.184
	6	0.132425	3.36359	-1.75	11.198	46.382
	7	0.111355	2.82843	-1.50	10.710	57.092
V Crse Sand	8	0.093638	2.37841	-1.25	10.222	67.314
	10	0.078740	2.00000	-1.00	6.317	73.631
	12	0.066212	1.68179	-0.75	4.836	78.467
	14	0.055678	1.41421	-0.50	4.037	82.503
Coarse Sand	16	0.046819	1.18921	-0.25	3.656	86.159
	18	0.039370	1.00000	0.00	3.252	89.412
	20	0.033106	0.84090	0.25	2.500	91.912
Medium Sand	25	0.027839	0.70711	0.50	1.871	93.783
	30	0.023410	0.59460	0.75	1.320	95.103
	35	0.019685	0.50000	1.00	0.839	95.942
	40	0.016553	0.42045	1.25	0.614	96.556
Fine Sand	45	0.013919	0.35355	1.50	0.430	96.986
	50	0.011705	0.29730	1.75	0.337	97.323
	60	0.009843	0.25000	2.00	0.249	97.573
V. Fine Sand	70	0.008277	0.21022	2.25	0.108	97.681
	80	0.006960	0.17678	2.50	0.069	97.750
	100	0.005852	0.14865	2.75	0.146	97.896
	120	0.004921	0.12500	3.00	0.170	98.065
Silt	140	0.004138	0.10511	3.25	0.100	98.165
	170	0.003480	0.08839	3.50	0.063	98.228
	200	0.002926	0.07433	3.75	0.087	98.316
	230	0.002461	0.06250	4.00	0.071	98.387
	270	0.002069	0.05256	4.25	0.070	98.457
	325	0.001740	0.04419	4.50	0.083	98.540
	400	0.001463	0.03716	4.75	0.061	98.601
	450	0.001230	0.03125	5.00	0.065	98.667
	500	0.001035	0.02628	5.25	0.075	98.741
	635	0.000870	0.02210	5.50	0.062	98.803
Clay		0.000732	0.01858	5.75	0.059	98.862
		0.000615	0.01562	6.00	0.067	98.929
		0.000517	0.01314	6.25	0.073	99.002
		0.000435	0.01105	6.50	0.072	99.074
		0.000366	0.00929	6.75	0.067	99.141
		0.000308	0.00781	7.00	0.064	99.205
		0.000259	0.00657	7.25	0.064	99.269
		0.000217	0.00552	7.50	0.065	99.334
		0.000183	0.00465	7.75	0.066	99.400
		0.000154	0.00391	8.00	0.069	99.468
		0.000129	0.00328	8.25	0.071	99.539
		0.000109	0.00276	8.50	0.070	99.609
		0.000091	0.00232	8.75	0.064	99.673
		0.000077	0.00195	9.00	0.054	99.727
		0.000065	0.00164	9.25	0.043	99.770
	0.000054	0.00138	9.50	0.034	99.805	
	0.000046	0.00116	9.75	0.030	99.835	
	0.000038	0.00098	10.00	0.030	99.865	
	0.000032	0.00082	10.25	0.032	99.897	
	0.000027	0.00069	10.50	0.033	99.929	
	0.000023	0.00058	10.75	0.030	99.960	
	0.000019	0.00049	11.00	0.024	99.984	
	0.000016	0.00041	11.25	0.013	99.997	
	0.000015	0.00038	11.50	0.003	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.1253	0.1253	0.1253	
(mm)	3.1828	3.1828	3.1828	
Mean	Granule sized			
(in)	0.1610	0.1302	0.1285	
(mm)	4.0890	3.3071	3.2651	
Sorting	Poor			
	1.812	1.323	1.329	
Skewness	Near symmetrical			
	1.087	0.147	0.023	
Kurtosis	Mesokurtic			
	0.248	0.666	1.054	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
73.63	24.76	1.08	0.53	1.61
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.5045	12.8148	-3.6797	
10	0.3840	9.7546	-3.2861	
16	0.3257	8.2723	-3.0483	
25	0.2468	6.2680	-2.6480	
30	0.2029	5.1545	-2.3658	
50	0.1253	3.1828	-1.6703	
60	0.1063	2.7004	-1.4332	
75	0.0752	1.9099	-0.9335	
84	0.0521	1.3221	-0.4028	
90	0.0379	0.9626	0.0551	
95	0.0238	0.6034	0.7288	



Sieve and Laser Particle Size Analysis

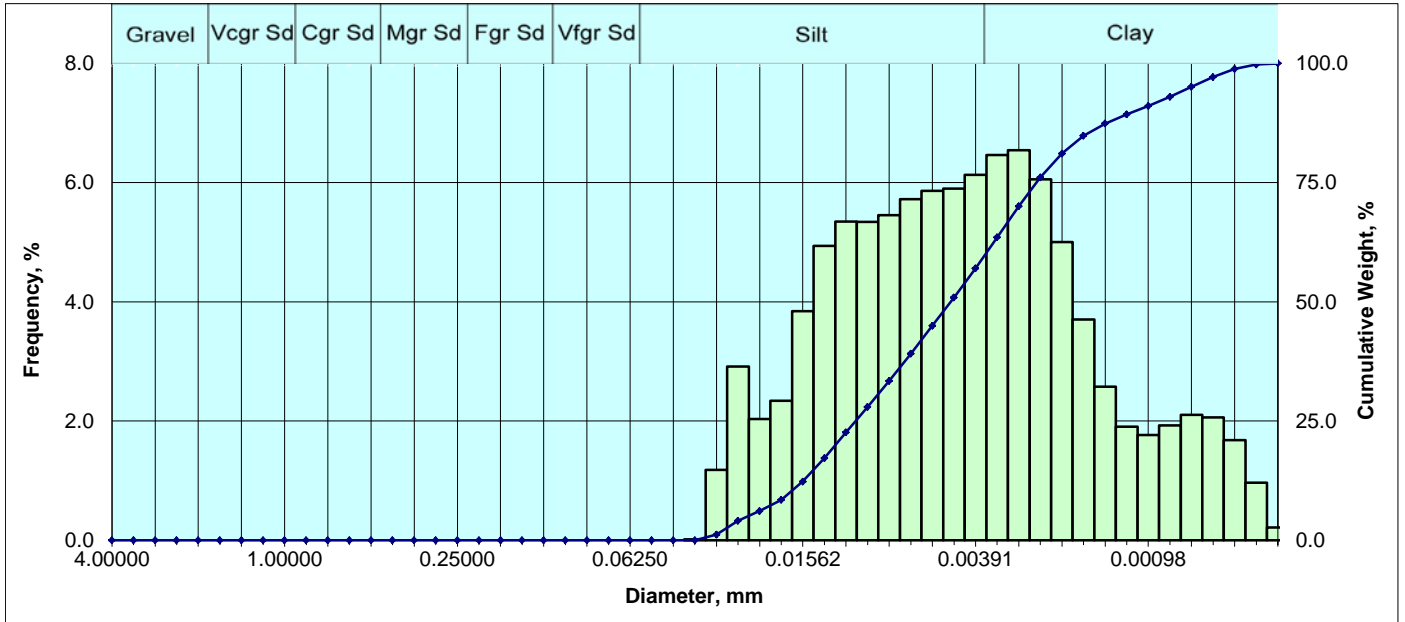


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.097	0.10
	Silt	270	0.002069	0.05256	4.25	1.064
325		0.001740	0.04419	4.50	2.315	3.48
400		0.001463	0.03716	4.75	1.891	5.37
450		0.001230	0.03125	5.00	2.916	8.28
500		0.001035	0.02628	5.25	4.101	12.38
635		0.000870	0.02210	5.50	3.499	15.88
		0.000732	0.01858	5.75	3.808	19.69
		0.000615	0.01562	6.00	5.139	24.83
		0.000517	0.01314	6.25	6.205	31.04
		0.000435	0.01105	6.50	6.565	37.60
		0.000366	0.00929	6.75	6.557	44.16
		0.000308	0.00781	7.00	6.487	50.65
		0.000259	0.00657	7.25	6.376	57.02
	0.000217	0.00552	7.50	6.125	63.15	
	0.000183	0.00465	7.75	5.746	68.89	
	0.000154	0.00391	8.00	5.344	74.24	
Clay		0.000129	0.00328	8.25	4.891	79.13
		0.000109	0.00276	8.50	4.312	83.44
		0.000091	0.00232	8.75	3.558	87.00
		0.000077	0.00195	9.00	2.691	89.69
		0.000065	0.00164	9.25	1.875	91.56
		0.000054	0.00138	9.50	1.278	92.84
		0.000046	0.00116	9.75	0.991	93.83
		0.000038	0.00098	10.00	0.988	94.82
		0.000032	0.00082	10.25	1.120	95.94
		0.000027	0.00069	10.50	1.229	97.17
		0.000023	0.00058	10.75	1.194	98.36
		0.000019	0.00049	11.00	0.965	99.33
		0.000016	0.00041	11.25	0.551	99.88
		0.000015	0.00038	11.50	0.121	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0080	0.0080	0.0080
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0097	0.0077	0.0078
Sorting	Poor		
	2.021	1.515	1.566
Skewness	Near symmetrical		
	0.967	0.260	0.090
Kurtosis	Mesokurtic		
	0.215	0.762	1.078
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	0.10	74.14	25.76
Percentile [Weight, %]			
		Particle Diameter	
		[in.]	[mm]
		[φ]	
5	0.0015	0.0385	4.6979
10	0.0011	0.0292	5.0994
16	0.0009	0.0220	5.5070
25	0.0006	0.0156	6.0063
30	0.0005	0.0136	6.2052
50	0.0003	0.0080	6.9731
60	0.0002	0.0061	7.3662
75	0.0001	0.0038	8.0363
84	0.0001	0.0027	8.5366
90	0.0001	0.0019	9.0386
95	0.0000	0.0010	10.0373



Sieve and Laser Particle Size Analysis

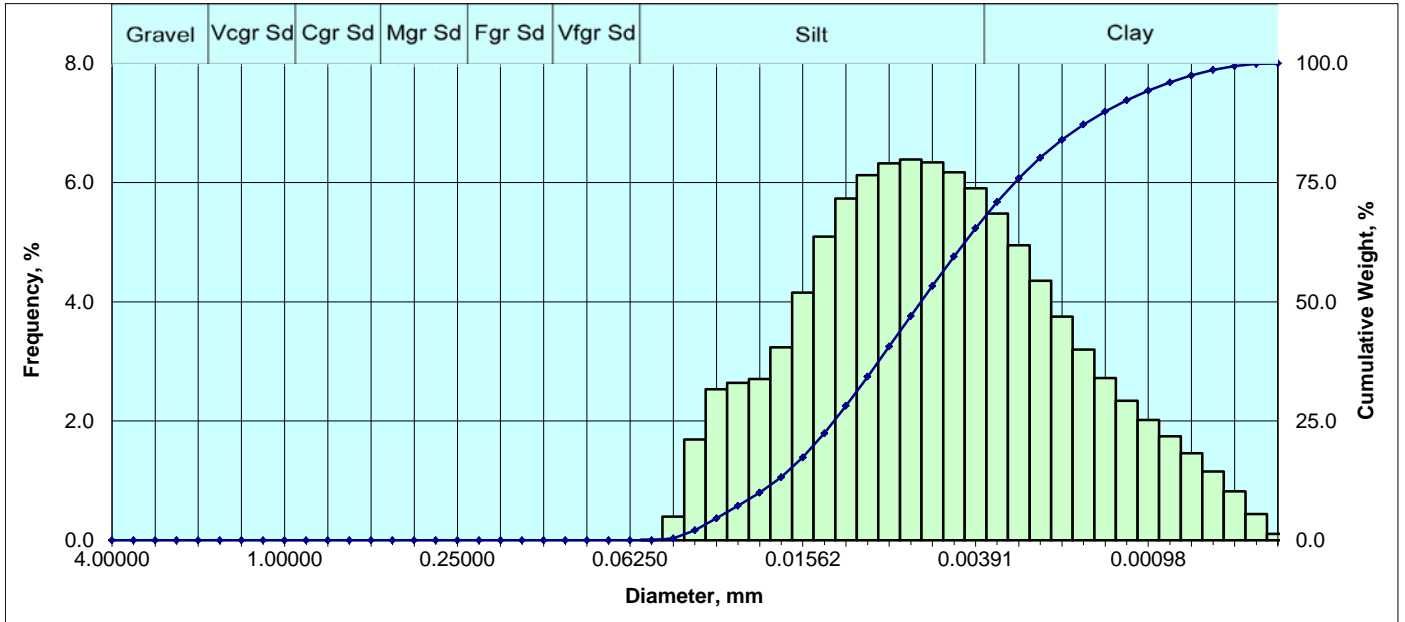


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	Silt	270	0.002069	0.05256	4.25	0.000
325		0.001740	0.04419	4.50	0.000	0.00
400		0.001463	0.03716	4.75	0.018	0.02
450		0.001230	0.03125	5.00	1.181	1.20
500		0.001035	0.02628	5.25	2.912	4.11
635		0.000870	0.02210	5.50	2.036	6.15
		0.000732	0.01858	5.75	2.342	8.49
		0.000615	0.01562	6.00	3.844	12.33
		0.000517	0.01314	6.25	4.937	17.27
		0.000435	0.01105	6.50	5.348	22.62
		0.000366	0.00929	6.75	5.342	27.96
Clay		0.000308	0.00781	7.00	5.454	33.41
		0.000259	0.00657	7.25	5.723	39.14
		0.000217	0.00552	7.50	5.864	45.00
		0.000183	0.00465	7.75	5.901	50.90
		0.000154	0.00391	8.00	6.132	57.03
		0.000129	0.00328	8.25	6.463	63.50
		0.000109	0.00276	8.50	6.541	70.04
		0.000091	0.00232	8.75	6.055	76.09
		0.000077	0.00195	9.00	5.004	81.10
		0.000065	0.00164	9.25	3.705	84.80
		0.000054	0.00138	9.50	2.574	87.38
	0.000046	0.00116	9.75	1.908	89.29	
	0.000038	0.00098	10.00	1.766	91.05	
	0.000032	0.00082	10.25	1.927	92.98	
	0.000027	0.00069	10.50	2.103	95.08	
	0.000023	0.00058	10.75	2.059	97.14	
	0.000019	0.00049	11.00	1.680	98.82	
	0.000016	0.00041	11.25	0.966	99.79	
	0.000015	0.00038	11.50	0.213	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0048	0.0048	0.0048	
Mean	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0063	0.0049	0.0048	
Sorting	Poor			
	2.067	1.505	1.531	
Skewness	Near symmetrical			
	1.039	0.141	0.034	
Kurtosis	Mesokurtic			
	0.241	0.706	1.004	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	57.03	42.97	100.00
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0010	0.0245	5.3538	
10	0.0007	0.0174	5.8431	
16	0.0005	0.0138	6.1814	
25	0.0004	0.0103	6.6061	
30	0.0003	0.0087	6.8385	
50	0.0002	0.0048	7.7088	
60	0.0001	0.0036	8.1094	
75	0.0001	0.0024	8.7015	
84	0.0001	0.0017	9.1920	
90	0.0000	0.0011	9.8460	
95	0.0000	0.0007	10.4894	



Sieve and Laser Particle Size Analysis

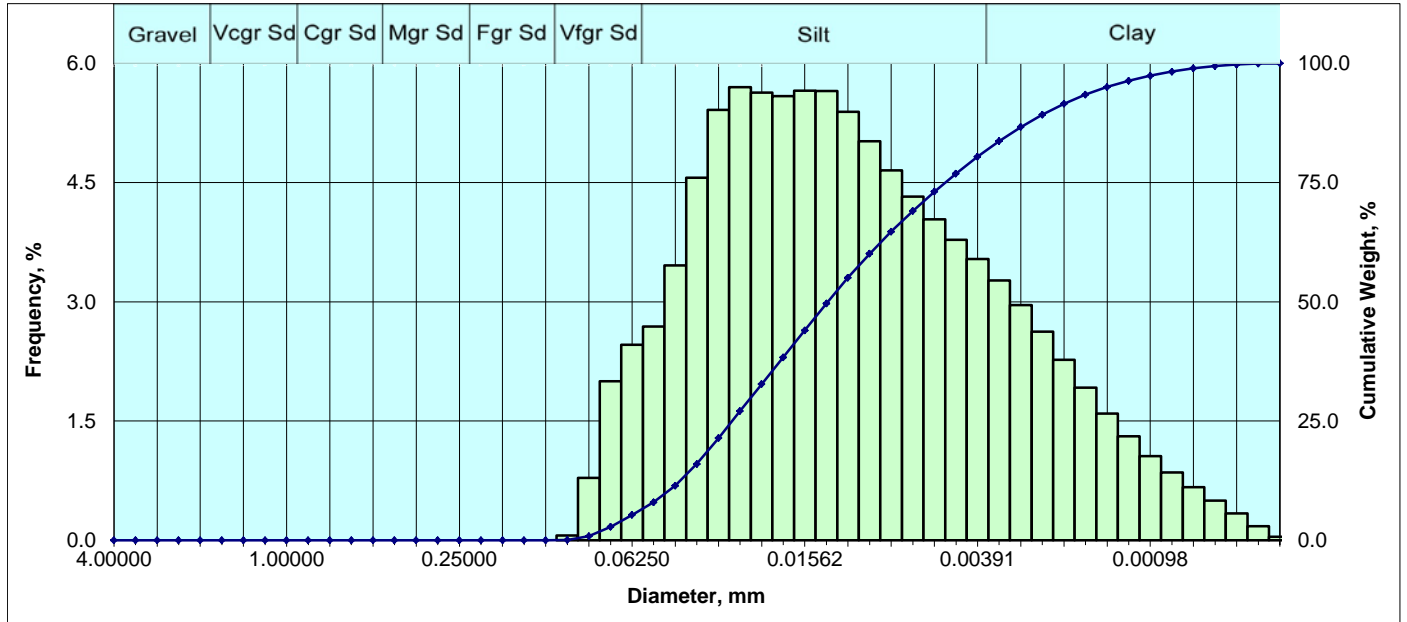


Particle Size Distribution					
	Diameter			Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000
	6	0.132425	3.36359	-1.75	0.000
	7	0.111355	2.82843	-1.50	0.000
	8	0.093638	2.37841	-1.25	0.000
	10	0.078740	2.00000	-1.00	0.000
V Crse Sand	12	0.066212	1.68179	-0.75	0.000
	14	0.055678	1.41421	-0.50	0.000
	16	0.046819	1.18921	-0.25	0.000
	18	0.039370	1.00000	0.00	0.000
Coarse Sand	20	0.033106	0.84090	0.25	0.000
	25	0.027839	0.70711	0.50	0.000
	30	0.023410	0.59460	0.75	0.000
	35	0.019685	0.50000	1.00	0.000
Medium Sand	40	0.016553	0.42045	1.25	0.000
	45	0.013919	0.35355	1.50	0.000
	50	0.011705	0.29730	1.75	0.000
	60	0.009843	0.25000	2.00	0.000
Fine Sand	70	0.008277	0.21022	2.25	0.000
	80	0.006960	0.17678	2.50	0.000
	100	0.005852	0.14865	2.75	0.000
	120	0.004921	0.12500	3.00	0.000
V. Fine Sand	140	0.004138	0.10511	3.25	0.000
	170	0.003480	0.08839	3.50	0.000
	200	0.002926	0.07433	3.75	0.000
	230	0.002461	0.06250	4.00	0.000
	Silt	270	0.002069	0.05256	4.25
325		0.001740	0.04419	4.50	0.397
400		0.001463	0.03716	4.75	1.692
450		0.001230	0.03125	5.00	2.535
500		0.001035	0.02628	5.25	2.644
635		0.000870	0.02210	5.50	2.704
		0.000732	0.01858	5.75	3.235
		0.000615	0.01562	6.00	4.152
		0.000517	0.01314	6.25	5.093
		0.000435	0.01105	6.50	5.733
		0.000366	0.00929	6.75	6.124
		0.000308	0.00781	7.00	6.325
		0.000259	0.00657	7.25	6.388
	0.000217	0.00552	7.50	6.339	
	0.000183	0.00465	7.75	6.173	
	0.000154	0.00391	8.00	5.904	
Clay		0.000129	0.00328	8.25	5.483
		0.000109	0.00276	8.50	4.950
		0.000091	0.00232	8.75	4.354
		0.000077	0.00195	9.00	3.754
		0.000065	0.00164	9.25	3.197
		0.000054	0.00138	9.50	2.722
		0.000046	0.00116	9.75	2.340
		0.000038	0.00098	10.00	2.021
		0.000032	0.00082	10.25	1.746
		0.000027	0.00069	10.50	1.462
		0.000023	0.00058	10.75	1.156
		0.000019	0.00049	11.00	0.819
		0.000016	0.00041	11.25	0.441
		0.000015	0.00038	11.50	0.108

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0061	0.0061	0.0061	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0075	0.0057	0.0058	
Sorting	Poor			
	2.068	1.544	1.540	
Skewness	Near symmetrical			
	0.971	0.132	0.071	
Kurtosis	Mesokurtic			
	0.226	0.641	0.990	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	65.45	34.55	100.00
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0012	0.0306	5.0323	
10	0.0009	0.0221	5.5014	
16	0.0007	0.0166	5.9128	
25	0.0005	0.0122	6.3554	
30	0.0004	0.0105	6.5693	
50	0.0002	0.0061	7.3617	
60	0.0002	0.0046	7.7679	
75	0.0001	0.0029	8.4522	
84	0.0001	0.0020	9.0008	
90	0.0001	0.0014	9.5090	
95	0.0000	0.0009	10.0996	



Sieve and Laser Particle Size Analysis

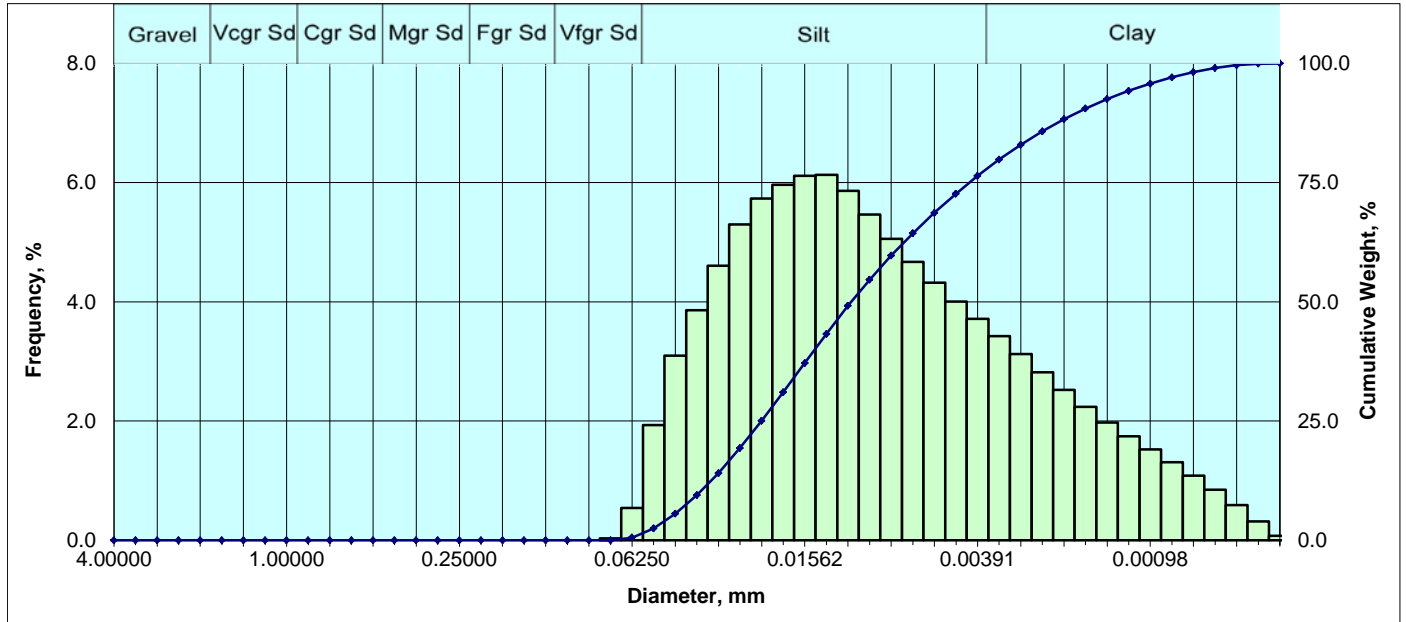


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.060	0.06
	170	0.003480	0.08839	3.50	0.787	0.85
	200	0.002926	0.07433	3.75	2.002	2.85
	230	0.002461	0.06250	4.00	2.460	5.31
	Silt	270	0.002069	0.05256	4.25	2.691
325		0.001740	0.04419	4.50	3.457	11.46
400		0.001463	0.03716	4.75	4.563	16.02
450		0.001230	0.03125	5.00	5.414	21.43
500		0.001035	0.02628	5.25	5.701	27.14
635		0.000870	0.02210	5.50	5.634	32.77
		0.000732	0.01858	5.75	5.588	38.36
		0.000615	0.01562	6.00	5.657	44.01
		0.000517	0.01314	6.25	5.651	49.67
		0.000435	0.01105	6.50	5.392	55.06
		0.000366	0.00929	6.75	5.021	60.08
		0.000308	0.00781	7.00	4.654	64.73
		0.000259	0.00657	7.25	4.325	69.06
		0.000217	0.00552	7.50	4.039	73.10
		0.000183	0.00465	7.75	3.780	76.88
	0.000154	0.00391	8.00	3.539	80.42	
Clay		0.000129	0.00328	8.25	3.268	83.68
		0.000109	0.00276	8.50	2.961	86.65
		0.000091	0.00232	8.75	2.623	89.27
		0.000077	0.00195	9.00	2.269	91.54
		0.000065	0.00164	9.25	1.919	93.46
		0.000054	0.00138	9.50	1.595	95.05
		0.000046	0.00116	9.75	1.307	96.36
		0.000038	0.00098	10.00	1.059	97.42
		0.000032	0.00082	10.25	0.852	98.27
		0.000027	0.00069	10.50	0.668	98.94
		0.000023	0.00058	10.75	0.500	99.44
		0.000019	0.00049	11.00	0.339	99.78
		0.000016	0.00041	11.25	0.178	99.96
		0.000015	0.00038	11.50	0.043	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0130	0.0130	0.0130	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0005	
(mm)	0.0166	0.0110	0.0116	
Sorting	Poor			
	2.353	1.763	1.719	
Skewness	Finely skewed			
	0.919	0.263	0.154	
Kurtosis	Mesokurtic			
	0.253	0.567	0.917	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	5.31	75.11	19.58	94.69
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0025	0.0640	3.9661	
10	0.0019	0.0477	4.3893	
16	0.0015	0.0372	4.7488	
25	0.0011	0.0281	5.1512	
30	0.0010	0.0242	5.3717	
50	0.0005	0.0130	6.2643	
60	0.0004	0.0093	6.7457	
75	0.0002	0.0051	7.6204	
84	0.0001	0.0032	8.2747	
90	0.0001	0.0022	8.8260	
95	0.0001	0.0014	9.4911	



Sieve and Laser Particle Size Analysis

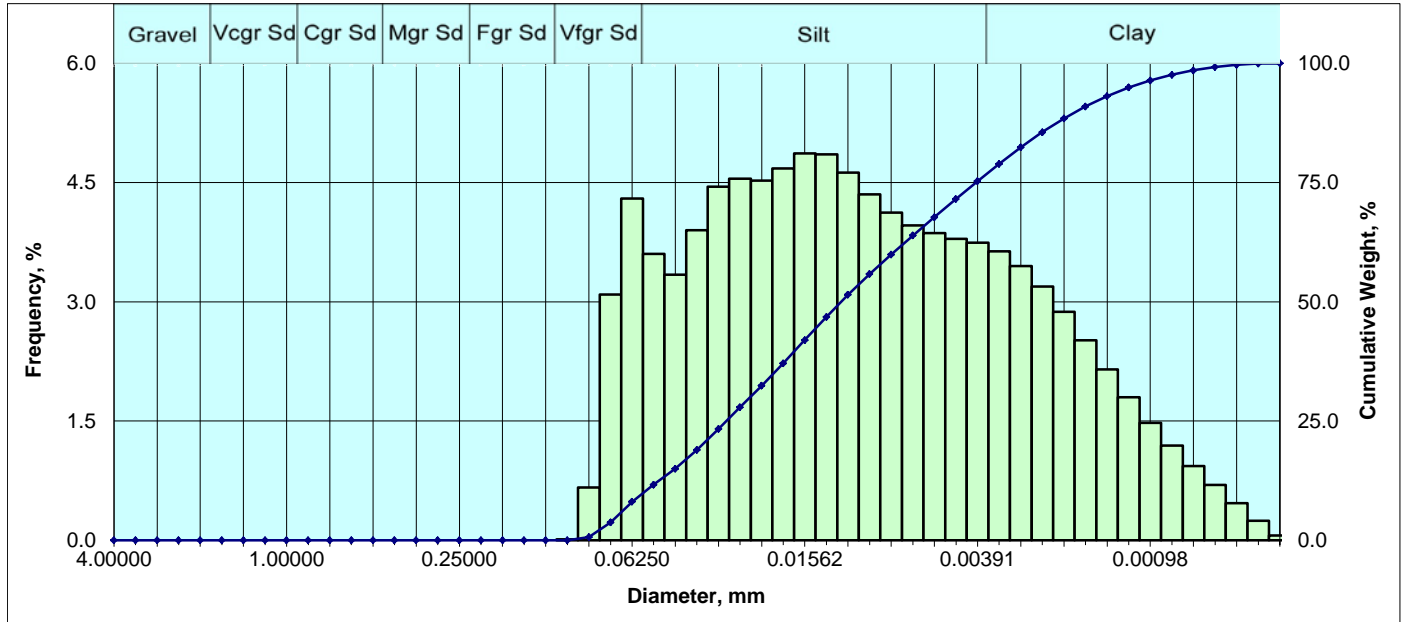


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.032	0.03
	230	0.002461	0.06250	4.00	0.544	0.58
	Silt	270	0.002069	0.05256	4.25	1.931
325		0.001740	0.04419	4.50	3.099	5.61
400		0.001463	0.03716	4.75	3.857	9.46
450		0.001230	0.03125	5.00	4.606	14.07
500		0.001035	0.02628	5.25	5.296	19.36
635		0.000870	0.02210	5.50	5.734	25.10
		0.000732	0.01858	5.75	5.964	31.06
		0.000615	0.01562	6.00	6.115	37.18
		0.000517	0.01314	6.25	6.130	43.31
		0.000435	0.01105	6.50	5.860	49.17
		0.000366	0.00929	6.75	5.462	54.63
		0.000308	0.00781	7.00	5.055	59.68
		0.000259	0.00657	7.25	4.671	64.36
		0.000217	0.00552	7.50	4.323	68.68
		0.000183	0.00465	7.75	4.005	72.68
	0.000154	0.00391	8.00	3.717	76.40	
Clay		0.000129	0.00328	8.25	3.424	79.82
		0.000109	0.00276	8.50	3.124	82.95
		0.000091	0.00232	8.75	2.820	85.77
		0.000077	0.00195	9.00	2.521	88.29
		0.000065	0.00164	9.25	2.236	90.53
		0.000054	0.00138	9.50	1.977	92.50
		0.000046	0.00116	9.75	1.746	94.25
		0.000038	0.00098	10.00	1.524	95.77
		0.000032	0.00082	10.25	1.312	97.08
		0.000027	0.00069	10.50	1.086	98.17
		0.000023	0.00058	10.75	0.846	99.02
		0.000019	0.00049	11.00	0.591	99.61
		0.000016	0.00041	11.25	0.315	99.92
		0.000015	0.00038	11.50	0.077	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0108	0.0108	0.0108	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0004	
(mm)	0.0132	0.0087	0.0094	
Sorting	Poor			
	2.302	1.751	1.697	
Skewness	Finely skewed			
	0.893	0.355	0.201	
Kurtosis	Mesokurtic			
	0.259	0.548	0.924	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.58	75.83	23.60	99.42
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0018	0.0458	4.4476	
10	0.0014	0.0365	4.7770	
16	0.0012	0.0294	5.0862	
25	0.0009	0.0222	5.4953	
30	0.0008	0.0192	5.7022	
50	0.0004	0.0108	6.5354	
60	0.0003	0.0077	7.0156	
75	0.0002	0.0042	7.9006	
84	0.0001	0.0026	8.5882	
90	0.0001	0.0017	9.1872	
95	0.0000	0.0011	9.8679	



Sieve and Laser Particle Size Analysis

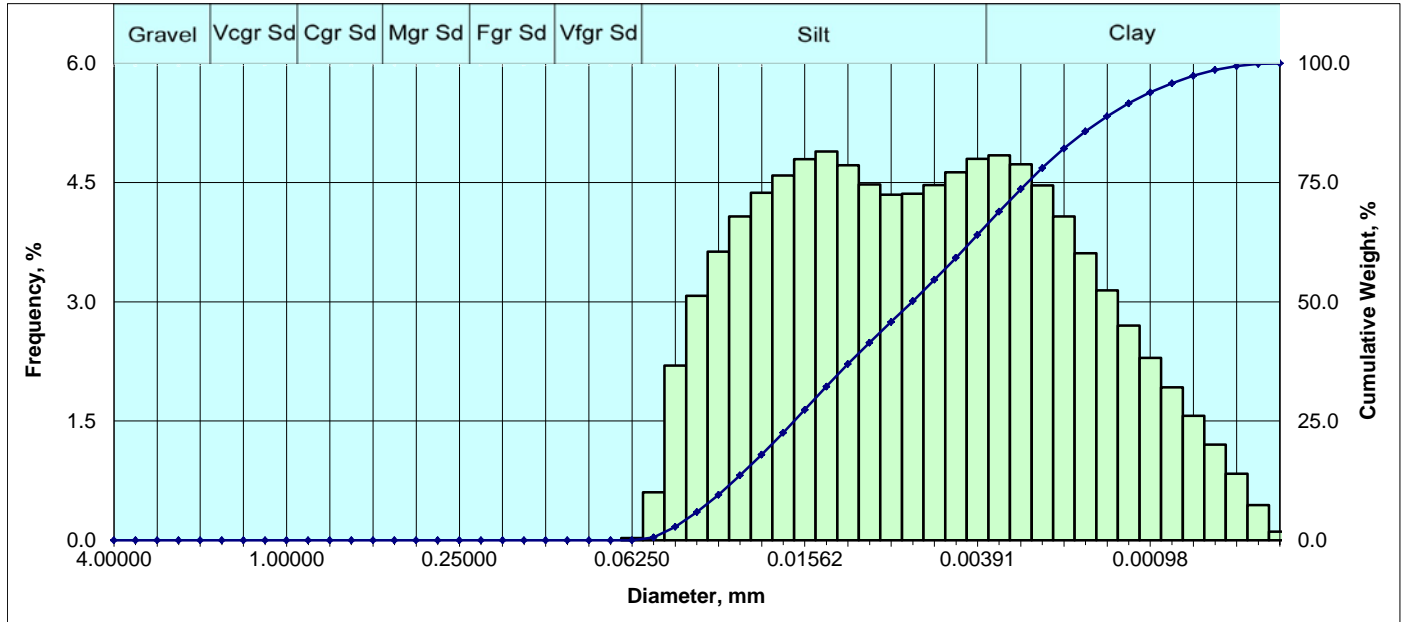


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.014	0.01
	170	0.003480	0.08839	3.50	0.666	0.68
	200	0.002926	0.07433	3.75	3.094	3.77
	230	0.002461	0.06250	4.00	4.298	8.07
	Silt	270	0.002069	0.05256	4.25	3.604
325		0.001740	0.04419	4.50	3.343	15.02
400		0.001463	0.03716	4.75	3.901	18.92
450		0.001230	0.03125	5.00	4.449	23.37
500		0.001035	0.02628	5.25	4.549	27.92
635		0.000870	0.02210	5.50	4.524	32.44
		0.000732	0.01858	5.75	4.678	37.12
		0.000615	0.01562	6.00	4.868	41.99
		0.000517	0.01314	6.25	4.856	46.84
		0.000435	0.01105	6.50	4.625	51.47
		0.000366	0.00929	6.75	4.351	55.82
		0.000308	0.00781	7.00	4.121	59.94
		0.000259	0.00657	7.25	3.963	63.90
		0.000217	0.00552	7.50	3.865	67.77
	0.000183	0.00465	7.75	3.794	71.56	
	0.000154	0.00391	8.00	3.743	75.30	
Clay		0.000129	0.00328	8.25	3.634	78.94
		0.000109	0.00276	8.50	3.452	82.39
		0.000091	0.00232	8.75	3.195	85.58
		0.000077	0.00195	9.00	2.874	88.46
		0.000065	0.00164	9.25	2.515	90.97
		0.000054	0.00138	9.50	2.151	93.13
		0.000046	0.00116	9.75	1.801	94.93
		0.000038	0.00098	10.00	1.478	96.40
		0.000032	0.00082	10.25	1.194	97.60
		0.000027	0.00069	10.50	0.934	98.53
		0.000023	0.00058	10.75	0.695	99.23
		0.000019	0.00049	11.00	0.468	99.70
		0.000016	0.00041	11.25	0.245	99.94
		0.000015	0.00038	11.50	0.060	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0117	0.0117	0.0117	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0004	
(mm)	0.0167	0.0104	0.0108	
Sorting	Poor			
	2.726	2.031	1.916	
Skewness	Finely skewed			
	0.923	0.184	0.106	
Kurtosis	Platykurtic			
	0.230	0.464	0.842	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	8.07	67.23	24.70	91.93
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0028	0.0710	3.8170	
10	0.0023	0.0572	4.1284	
16	0.0017	0.0424	4.5590	
25	0.0012	0.0295	5.0848	
30	0.0010	0.0244	5.3598	
50	0.0005	0.0117	6.4159	
60	0.0003	0.0078	7.0035	
75	0.0002	0.0040	7.9780	
84	0.0001	0.0025	8.6206	
90	0.0001	0.0018	9.1480	
95	0.0000	0.0012	9.7615	



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.030	0.03
	Silt	270	0.002069	0.05256	4.25	0.604
325		0.001740	0.04419	4.50	2.199	2.83
400		0.001463	0.03716	4.75	3.075	5.91
450		0.001230	0.03125	5.00	3.629	9.54
500		0.001035	0.02628	5.25	4.075	13.61
635		0.000870	0.02210	5.50	4.371	17.98
		0.000732	0.01858	5.75	4.588	22.57
		0.000615	0.01562	6.00	4.795	27.37
		0.000517	0.01314	6.25	4.890	32.26
		0.000435	0.01105	6.50	4.718	36.97
		0.000366	0.00929	6.75	4.475	41.45
		0.000308	0.00781	7.00	4.347	45.80
		0.000259	0.00657	7.25	4.359	50.15
	0.000217	0.00552	7.50	4.470	54.62	
	0.000183	0.00465	7.75	4.628	59.25	
	0.000154	0.00391	8.00	4.797	64.05	
Clay		0.000129	0.00328	8.25	4.843	68.89
		0.000109	0.00276	8.50	4.732	73.62
		0.000091	0.00232	8.75	4.464	78.09
		0.000077	0.00195	9.00	4.074	82.16
		0.000065	0.00164	9.25	3.613	85.78
		0.000054	0.00138	9.50	3.143	88.92
		0.000046	0.00116	9.75	2.702	91.62
		0.000038	0.00098	10.00	2.293	93.91
		0.000032	0.00082	10.25	1.926	95.84
		0.000027	0.00069	10.50	1.565	97.41
		0.000023	0.00058	10.75	1.206	98.61
		0.000019	0.00049	11.00	0.836	99.45
		0.000016	0.00041	11.25	0.445	99.89
		0.000015	0.00038	11.50	0.109	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0066	0.0066	0.0066	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0099	0.0066	0.0066	
Sorting	Poor			
	2.550	1.870	1.763	
Skewness	Near symmetrical			
	1.013	0.087	0.033	
Kurtosis	Platykurtic			
	0.246	0.461	0.829	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.03	64.02	35.95	99.97
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0015	0.0392	4.6716	
10	0.0012	0.0307	5.0264	
16	0.0009	0.0240	5.3812	
25	0.0007	0.0171	5.8713	
30	0.0006	0.0143	6.1293	
50	0.0003	0.0066	7.2403	
60	0.0002	0.0045	7.7862	
75	0.0001	0.0026	8.5725	
84	0.0001	0.0018	9.1217	
90	0.0001	0.0013	9.5949	
95	0.0000	0.0009	10.1356	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 1690006943-038

CL File Number: 1801096

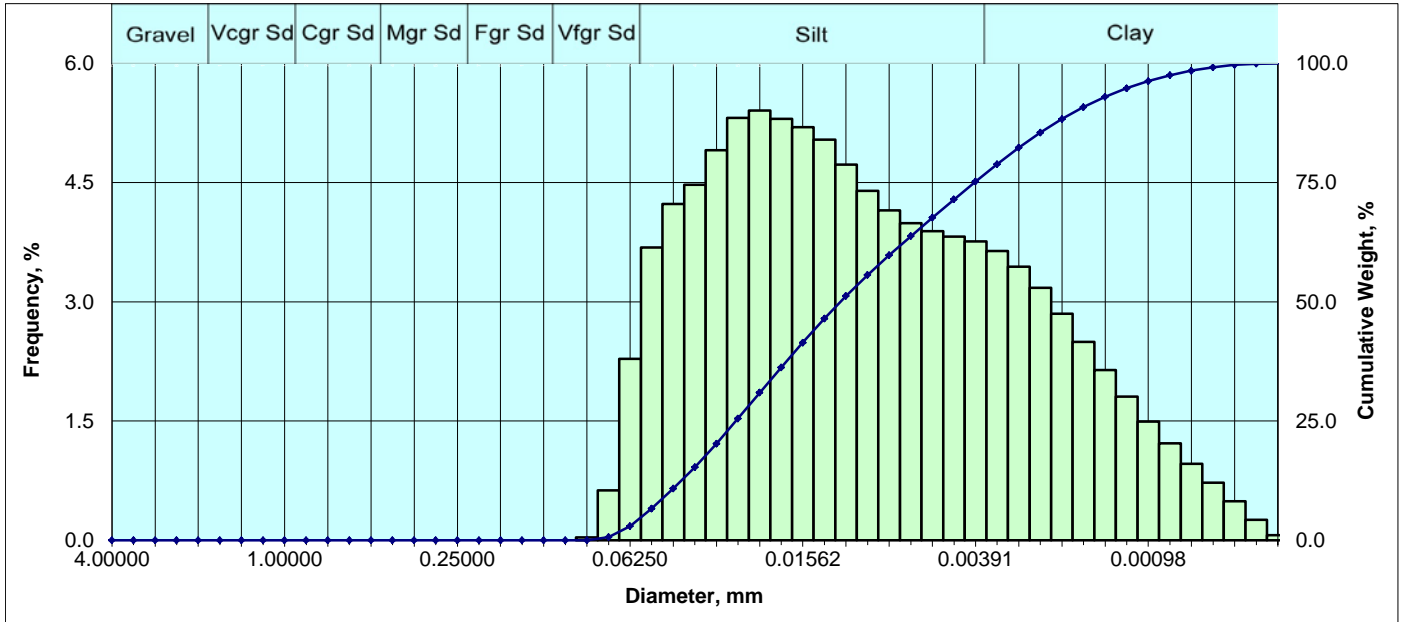
APPENDIX 2

Particle Distribution Plots

Boring ES-17



Sieve and Laser Particle Size Analysis

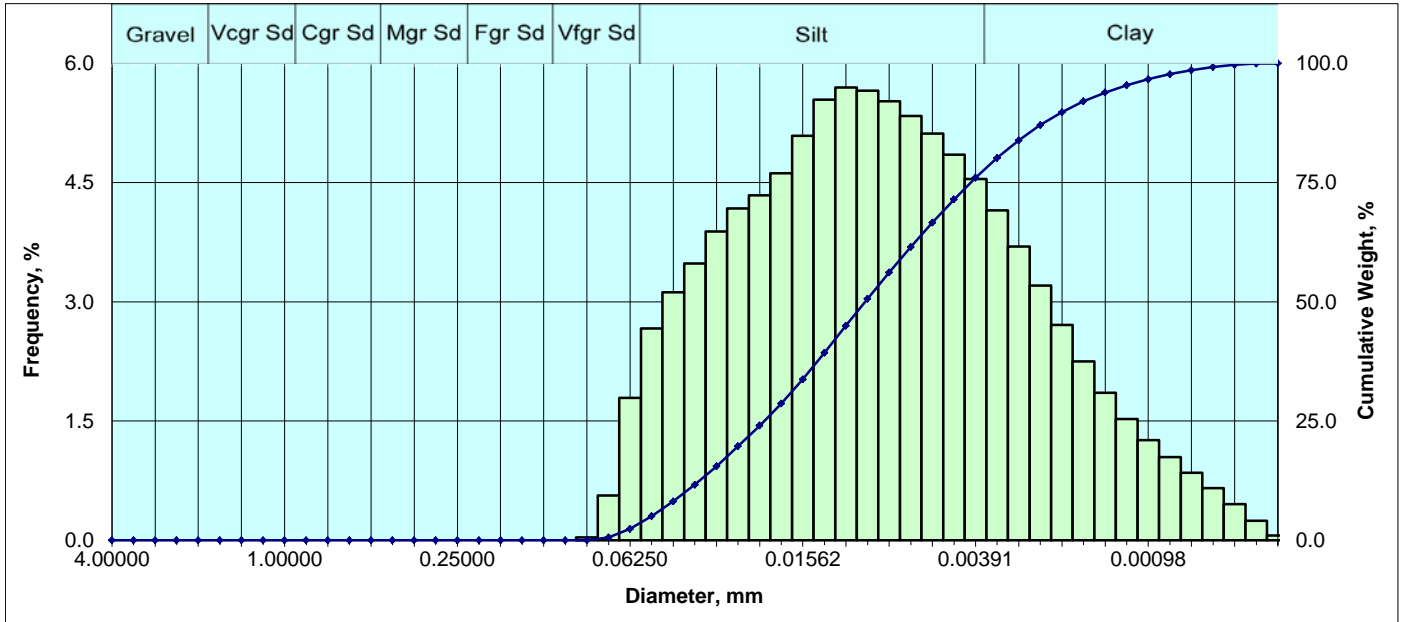


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.035	0.04
	200	0.002926	0.07433	3.75	0.627	0.66
	230	0.002461	0.06250	4.00	2.282	2.94
	Silt	270	0.002069	0.05256	4.25	3.685
325		0.001740	0.04419	4.50	4.232	10.86
400		0.001463	0.03716	4.75	4.471	15.33
450		0.001230	0.03125	5.00	4.906	20.24
500		0.001035	0.02628	5.25	5.312	25.55
635		0.000870	0.02210	5.50	5.405	30.96
		0.000732	0.01858	5.75	5.301	36.26
		0.000615	0.01562	6.00	5.196	41.45
		0.000517	0.01314	6.25	5.042	46.50
		0.000435	0.01105	6.50	4.726	51.22
		0.000366	0.00929	6.75	4.398	55.62
		0.000308	0.00781	7.00	4.153	59.77
		0.000259	0.00657	7.25	3.989	63.76
		0.000217	0.00552	7.50	3.889	67.65
		0.000183	0.00465	7.75	3.820	71.47
	0.000154	0.00391	8.00	3.760	75.23	
Clay		0.000129	0.00328	8.25	3.640	78.87
		0.000109	0.00276	8.50	3.444	82.31
		0.000091	0.00232	8.75	3.175	85.49
		0.000077	0.00195	9.00	2.851	88.34
		0.000065	0.00164	9.25	2.497	90.84
		0.000054	0.00138	9.50	2.142	92.98
		0.000046	0.00116	9.75	1.806	94.79
		0.000038	0.00098	10.00	1.495	96.28
		0.000032	0.00082	10.25	1.220	97.50
		0.000027	0.00069	10.50	0.964	98.47
		0.000023	0.00058	10.75	0.723	99.19
		0.000019	0.00049	11.00	0.491	99.68
		0.000016	0.00041	11.25	0.258	99.94
		0.000015	0.00038	11.50	0.063	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0005	0.0005	0.0005
(mm)	0.0116	0.0116	0.0116
Mean	Silt sized		
(in)	0.0006	0.0004	0.0004
(mm)	0.0154	0.0096	0.0102
Sorting	Poor		
	2.604	1.923	1.817
Skewness	Finely skewed		
	0.888	0.274	0.164
Kurtosis	Platykurtic		
	0.259	0.469	0.838
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	2.94	72.29	24.77
			Silt + Clay
			97.06
Percentile [Weight, %]	Particle Diameter		
	(in.)	(mm)	(phi)
5	0.0022	0.0570	4.1341
10	0.0018	0.0459	4.4455
16	0.0014	0.0364	4.7815
25	0.0011	0.0268	5.2219
30	0.0009	0.0228	5.4525
50	0.0005	0.0116	6.4311
60	0.0003	0.0077	7.0132
75	0.0002	0.0040	7.9833
84	0.0001	0.0025	8.6273
90	0.0001	0.0017	9.1612
95	0.0000	0.0011	9.7832



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.036	0.04
	200	0.002926	0.07433	3.75	0.562	0.60
	230	0.002461	0.06250	4.00	1.790	2.39
	Silt	270	0.002069	0.05256	4.25	2.663
325		0.001740	0.04419	4.50	3.120	8.17
400		0.001463	0.03716	4.75	3.481	11.65
450		0.001230	0.03125	5.00	3.884	15.54
500		0.001035	0.02628	5.25	4.173	19.71
635		0.000870	0.02210	5.50	4.341	24.05
		0.000732	0.01858	5.75	4.619	28.67
		0.000615	0.01562	6.00	5.087	33.76
		0.000517	0.01314	6.25	5.544	39.30
		0.000435	0.01105	6.50	5.698	45.00
		0.000366	0.00929	6.75	5.656	50.66
		0.000308	0.00781	7.00	5.524	56.18
		0.000259	0.00657	7.25	5.338	61.52
		0.000217	0.00552	7.50	5.116	66.63
	0.000183	0.00465	7.75	4.852	71.49	
	0.000154	0.00391	8.00	4.543	76.03	
Clay		0.000129	0.00328	8.25	4.152	80.18
		0.000109	0.00276	8.50	3.696	83.88
		0.000091	0.00232	8.75	3.204	87.08
		0.000077	0.00195	9.00	2.711	89.79
		0.000065	0.00164	9.25	2.252	92.04
		0.000054	0.00138	9.50	1.855	93.90
		0.000046	0.00116	9.75	1.528	95.43
		0.000038	0.00098	10.00	1.262	96.69
		0.000032	0.00082	10.25	1.047	97.74
		0.000027	0.00069	10.50	0.849	98.58
		0.000023	0.00058	10.75	0.655	99.24
		0.000019	0.00049	11.00	0.457	99.70
		0.000016	0.00041	11.25	0.244	99.94
		0.000015	0.00038	11.50	0.060	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0095	0.0095	0.0095	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0127	0.0092	0.0093	
Sorting	Poor			
	2.291	1.742	1.694	
Skewness	Near symmetrical			
	0.983	0.139	0.058	
Kurtosis	Mesokurtic			
	0.224	0.559	0.931	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	2.39	73.64	23.97	97.61
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0021	0.0527	4.2447	
10	0.0016	0.0405	4.6259	
16	0.0012	0.0307	5.0257	
25	0.0008	0.0214	5.5480	
30	0.0007	0.0178	5.8113	
50	0.0004	0.0095	6.7187	
60	0.0003	0.0069	7.1744	
75	0.0002	0.0041	7.9395	
84	0.0001	0.0027	8.5089	
90	0.0001	0.0019	9.0214	
95	0.0000	0.0012	9.6758	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 1690006943-038

CL File Number: 1801096

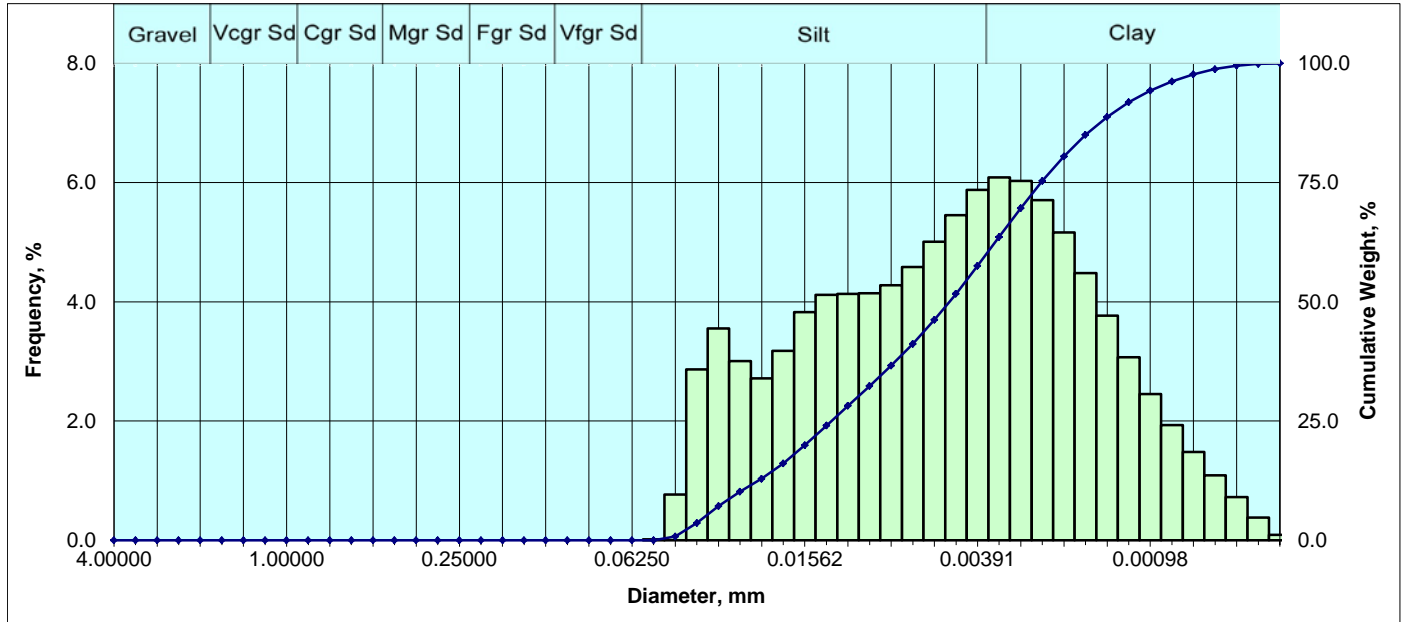
APPENDIX 3

Particle Distribution Plots

Boring ES-25B



Sieve and Laser Particle Size Analysis

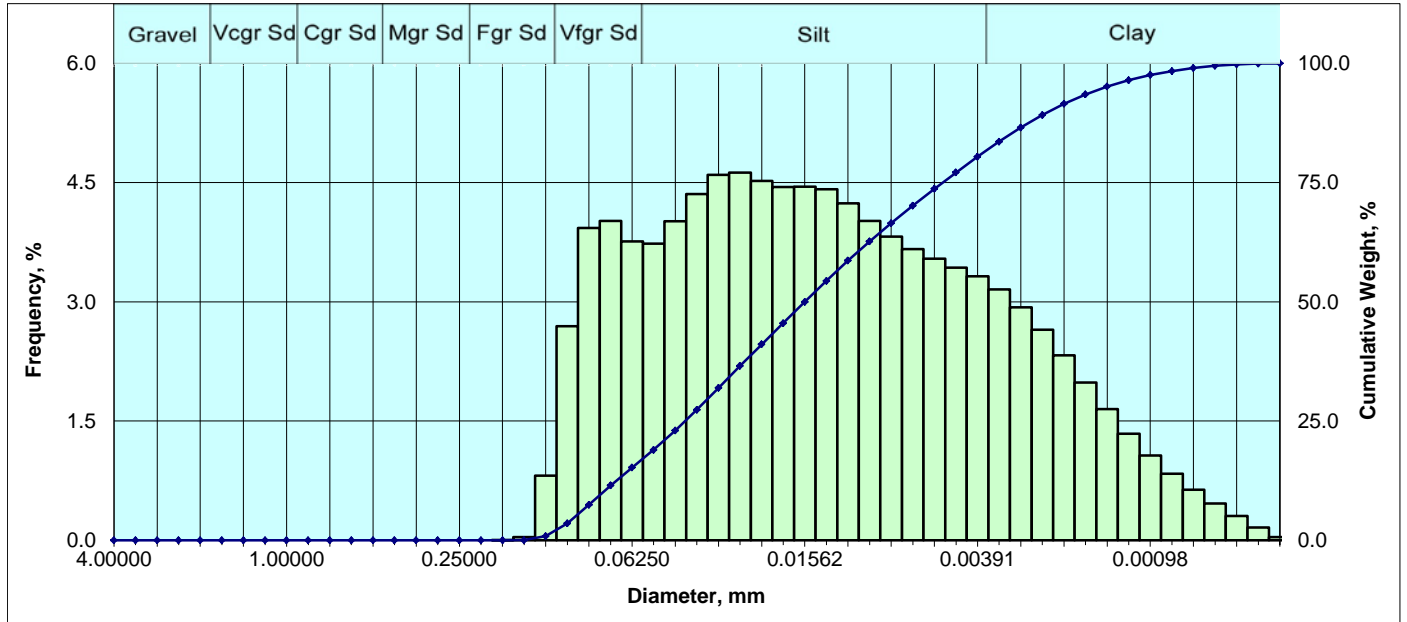


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
Silt	270	0.002069	0.05256	4.25	0.019	0.02
	325	0.001740	0.04419	4.50	0.767	0.79
	400	0.001463	0.03716	4.75	2.866	3.65
	450	0.001230	0.03125	5.00	3.555	7.21
	500	0.001035	0.02628	5.25	3.006	10.21
	635	0.000870	0.02210	5.50	2.718	12.93
		0.000732	0.01858	5.75	3.179	16.11
		0.000615	0.01562	6.00	3.828	19.94
		0.000517	0.01314	6.25	4.118	24.06
		0.000435	0.01105	6.50	4.134	28.19
		0.000366	0.00929	6.75	4.146	32.34
	0.000308	0.00781	7.00	4.279	36.62	
	0.000259	0.00657	7.25	4.586	41.20	
	0.000217	0.00552	7.50	5.009	46.21	
	0.000183	0.00465	7.75	5.451	51.66	
	0.000154	0.00391	8.00	5.878	57.54	
Clay		0.000129	0.00328	8.25	6.087	63.63
		0.000109	0.00276	8.50	6.028	69.66
		0.000091	0.00232	8.75	5.705	75.36
		0.000077	0.00195	9.00	5.163	80.52
		0.000065	0.00164	9.25	4.484	85.01
		0.000054	0.00138	9.50	3.766	88.77
		0.000046	0.00116	9.75	3.072	91.85
		0.000038	0.00098	10.00	2.454	94.30
		0.000032	0.00082	10.25	1.933	96.23
		0.000027	0.00069	10.50	1.482	97.71
		0.000023	0.00058	10.75	1.088	98.80
		0.000019	0.00049	11.00	0.726	99.53
		0.000016	0.00041	11.25	0.379	99.91
		0.000015	0.00038	11.50	0.093	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0049	0.0049	0.0049	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0075	0.0057	0.0054	
Sorting	Poor			
	2.321	1.725	1.657	
Skewness	Near symmetrical			
	1.110	-0.120	-0.098	
Kurtosis	Platykurtic			
	0.203	0.521	0.885	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	57.54	42.46	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0014	0.0349	4.8397	
10	0.0010	0.0266	5.2307	
16	0.0007	0.0187	5.7405	
25	0.0005	0.0127	6.3033	
30	0.0004	0.0103	6.6038	
50	0.0002	0.0049	7.6691	
60	0.0001	0.0037	8.0959	
75	0.0001	0.0024	8.7328	
84	0.0001	0.0017	9.1899	
90	0.0001	0.0013	9.5946	
95	0.0000	0.0009	10.0856	



Sieve and Laser Particle Size Analysis

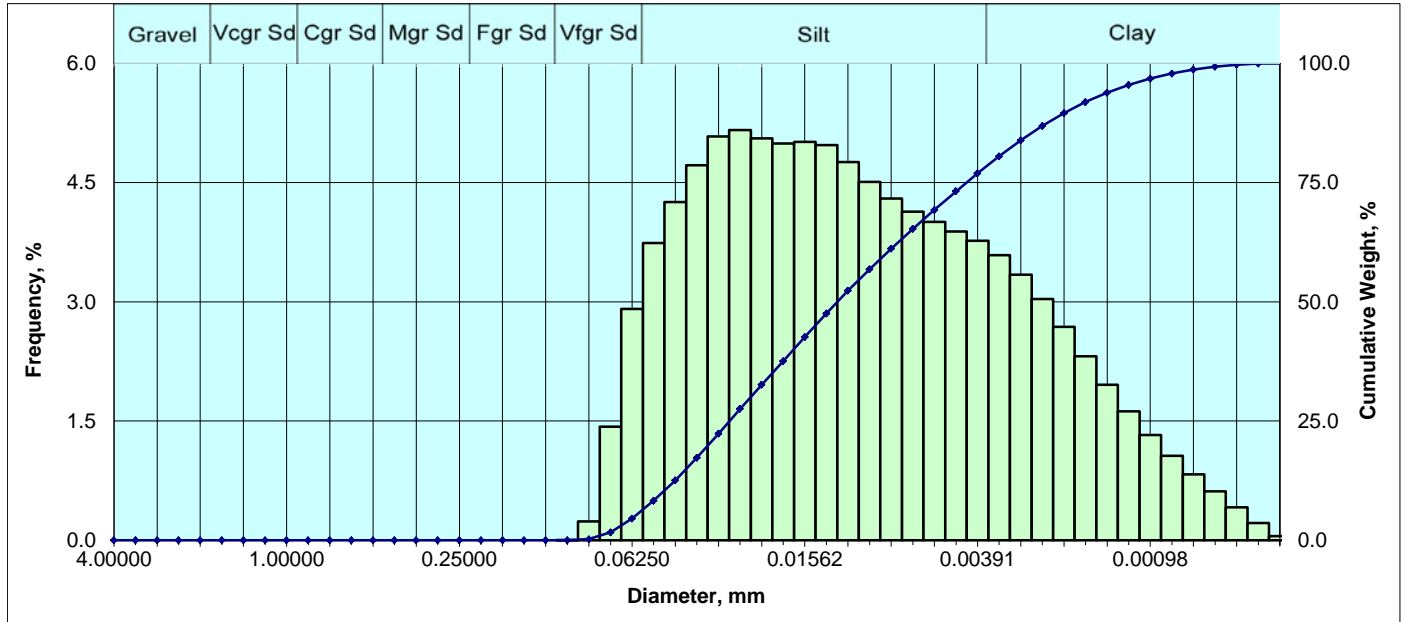


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.041	0.04
	120	0.004921	0.12500	3.00	0.812	0.85
V. Fine Sand	140	0.004138	0.10511	3.25	2.692	3.54
	170	0.003480	0.08839	3.50	3.930	7.48
	200	0.002926	0.07433	3.75	4.020	11.49
	230	0.002461	0.06250	4.00	3.758	15.25
	Silt	270	0.002069	0.05256	4.25	3.731
325		0.001740	0.04419	4.50	4.013	23.00
400		0.001463	0.03716	4.75	4.357	27.35
450		0.001230	0.03125	5.00	4.596	31.95
500		0.001035	0.02628	5.25	4.628	36.58
635		0.000870	0.02210	5.50	4.521	41.10
		0.000732	0.01858	5.75	4.446	45.54
		0.000615	0.01562	6.00	4.448	49.99
		0.000517	0.01314	6.25	4.416	54.41
		0.000435	0.01105	6.50	4.239	58.65
		0.000366	0.00929	6.75	4.016	62.66
		0.000308	0.00781	7.00	3.821	66.48
		0.000259	0.00657	7.25	3.665	70.15
	0.000217	0.00552	7.50	3.542	73.69	
	0.000183	0.00465	7.75	3.431	77.12	
	0.000154	0.00391	8.00	3.321	80.44	
Clay		0.000129	0.00328	8.25	3.157	83.60
		0.000109	0.00276	8.50	2.932	86.53
		0.000091	0.00232	8.75	2.651	89.18
		0.000077	0.00195	9.00	2.328	91.51
		0.000065	0.00164	9.25	1.986	93.50
		0.000054	0.00138	9.50	1.652	95.15
		0.000046	0.00116	9.75	1.341	96.49
		0.000038	0.00098	10.00	1.066	97.56
		0.000032	0.00082	10.25	0.836	98.39
		0.000027	0.00069	10.50	0.637	99.03
		0.000023	0.00058	10.75	0.464	99.49
		0.000019	0.00049	11.00	0.308	99.80
		0.000016	0.00041	11.25	0.160	99.96
		0.000015	0.00038	11.50	0.039	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0156	0.0156	0.0156	
Mean	Silt sized			
(in)	0.0009	0.0005	0.0006	
(mm)	0.0231	0.0139	0.0145	
Sorting	Poor			
	2.810	2.117	1.989	
Skewness	Finely skewed			
	0.933	0.192	0.105	
Kurtosis	Platykurtic			
	0.231	0.449	0.844	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	15.25	65.19	19.56	84.75
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0039	0.0989	3.3376	
10	0.0031	0.0796	3.6519	
16	0.0024	0.0605	4.0467	
25	0.0016	0.0410	4.6096	
30	0.0013	0.0338	4.8886	
50	0.0006	0.0156	6.0004	
60	0.0004	0.0105	6.5794	
75	0.0002	0.0052	7.5903	
84	0.0001	0.0032	8.2817	
90	0.0001	0.0022	8.8329	
95	0.0001	0.0014	9.4756	



Sieve and Laser Particle Size Analysis

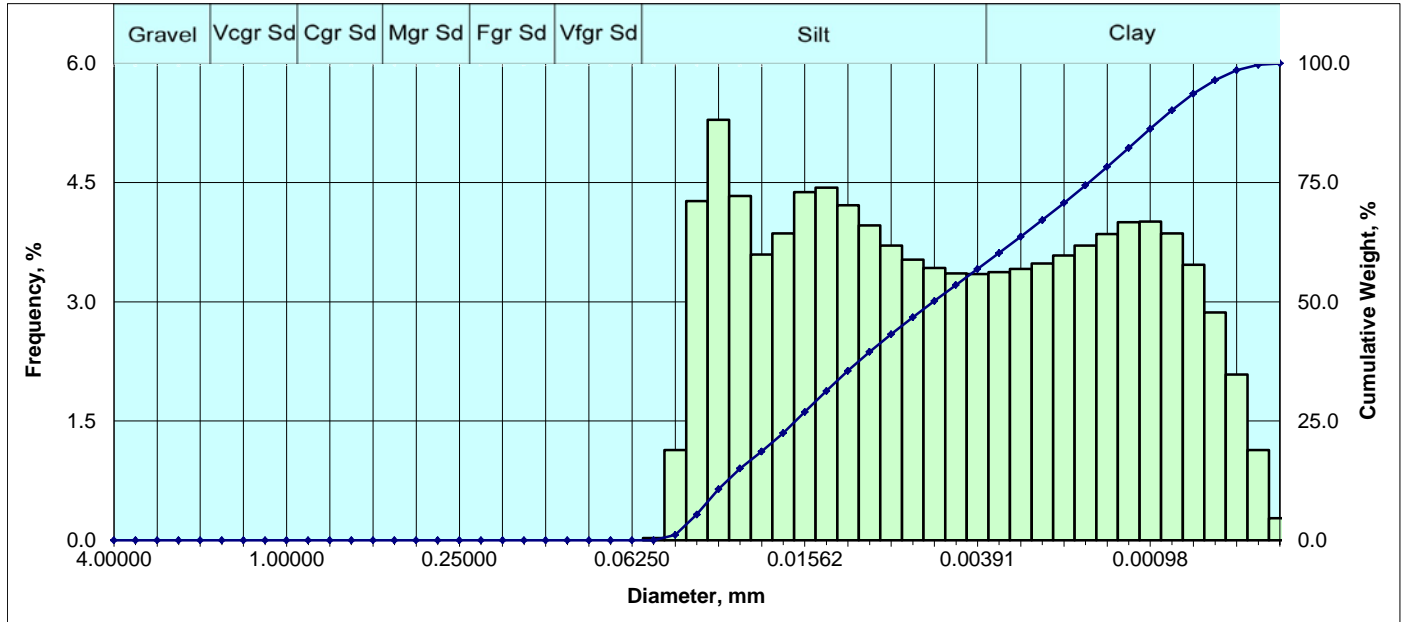


Particle Size Distribution					
	Diameter			Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000
	6	0.132425	3.36359	-1.75	0.000
	7	0.111355	2.82843	-1.50	0.000
	8	0.093638	2.37841	-1.25	0.000
	10	0.078740	2.00000	-1.00	0.000
V Crse Sand	12	0.066212	1.68179	-0.75	0.000
	14	0.055678	1.41421	-0.50	0.000
	16	0.046819	1.18921	-0.25	0.000
	18	0.039370	1.00000	0.00	0.000
Coarse Sand	20	0.033106	0.84090	0.25	0.000
	25	0.027839	0.70711	0.50	0.000
	30	0.023410	0.59460	0.75	0.000
	35	0.019685	0.50000	1.00	0.000
	40	0.016553	0.42045	1.25	0.000
Medium Sand	45	0.013919	0.35355	1.50	0.000
	50	0.011705	0.29730	1.75	0.000
	60	0.009843	0.25000	2.00	0.000
	70	0.008277	0.21022	2.25	0.000
Fine Sand	80	0.006960	0.17678	2.50	0.000
	100	0.005852	0.14865	2.75	0.000
	120	0.004921	0.12500	3.00	0.000
	140	0.004138	0.10511	3.25	0.004
V. Fine Sand	170	0.003480	0.08839	3.50	0.239
	200	0.002926	0.07433	3.75	1.429
	230	0.002461	0.06250	4.00	2.913
	270	0.002069	0.05256	4.25	3.740
	325	0.001740	0.04419	4.50	4.256
	400	0.001463	0.03716	4.75	4.718
Silt	450	0.001230	0.03125	5.00	5.079
	500	0.001035	0.02628	5.25	5.163
	635	0.000870	0.02210	5.50	5.057
		0.000732	0.01858	5.75	4.993
		0.000615	0.01562	6.00	5.012
		0.000517	0.01314	6.25	4.970
		0.000435	0.01105	6.50	4.759
		0.000366	0.00929	6.75	4.510
		0.000308	0.00781	7.00	4.298
		0.000259	0.00657	7.25	4.134
		0.000217	0.00552	7.50	4.005
		0.000183	0.00465	7.75	3.887
		0.000154	0.00391	8.00	3.768
Clay		0.000129	0.00328	8.25	3.587
		0.000109	0.00276	8.50	3.341
		0.000091	0.00232	8.75	3.034
		0.000077	0.00195	9.00	2.685
		0.000065	0.00164	9.25	2.317
		0.000054	0.00138	9.50	1.958
		0.000046	0.00116	9.75	1.624
		0.000038	0.00098	10.00	1.324
		0.000032	0.00082	10.25	1.065
		0.000027	0.00069	10.50	0.831
		0.000023	0.00058	10.75	0.618
		0.000019	0.00049	11.00	0.416
		0.000016	0.00041	11.25	0.218
		0.000015	0.00038	11.50	0.053

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0005	0.0005	0.0005
(mm)	0.0121	0.0121	0.0121
Mean	Silt sized		
(in)	0.0006	0.0004	0.0004
(mm)	0.0165	0.0104	0.0109
Sorting	Poor		
	2.589	1.917	1.814
Skewness	Finely skewed		
	0.919	0.249	0.142
Kurtosis	Platykurtic		
	0.258	0.473	0.843
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	4.58	72.35	23.07
			Silt + Clay
			95.42
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0024	0.0614	4.0257
10	0.0019	0.0493	4.3433
16	0.0015	0.0391	4.6768
25	0.0011	0.0287	5.1216
30	0.0010	0.0242	5.3662
50	0.0005	0.0121	6.3721
60	0.0003	0.0082	6.9294
75	0.0002	0.0043	7.8664
84	0.0001	0.0027	8.5106
90	0.0001	0.0019	9.0424
95	0.0000	0.0012	9.6720



Sieve and Laser Particle Size Analysis

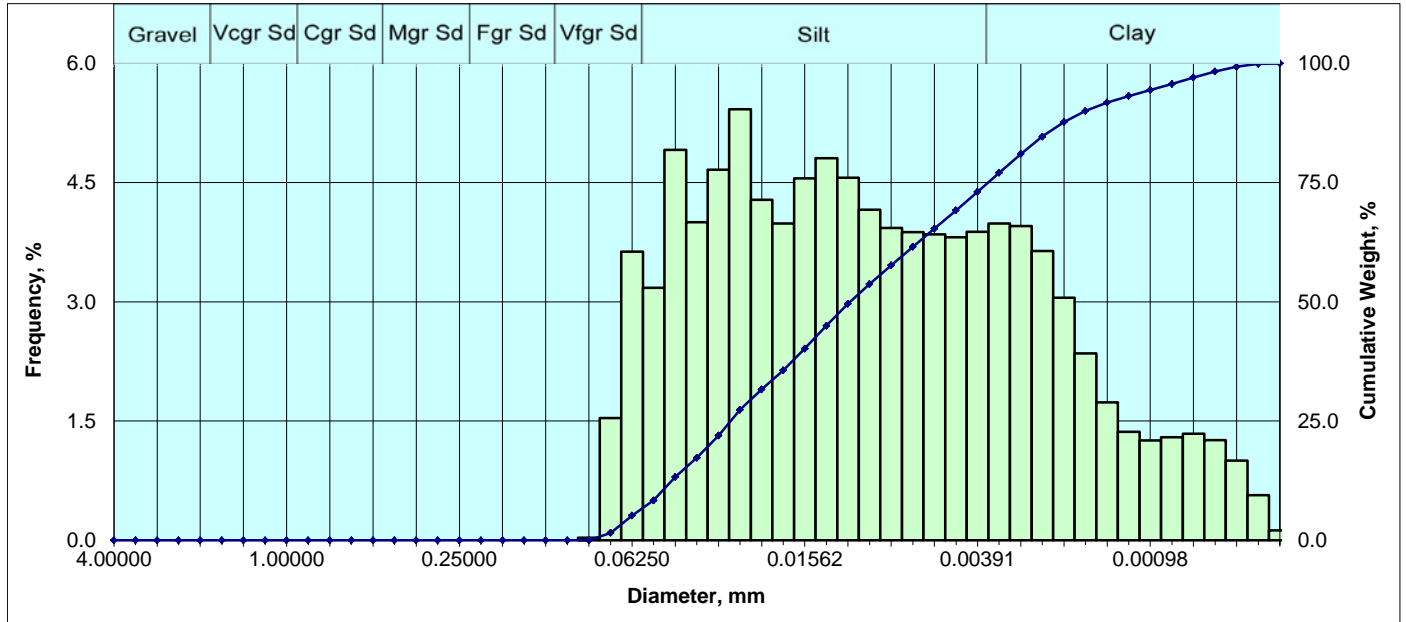


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
Silt	270	0.002069	0.05256	4.25	0.028	0.03
	325	0.001740	0.04419	4.50	1.136	1.16
	400	0.001463	0.03716	4.75	4.269	5.43
	450	0.001230	0.03125	5.00	5.291	10.72
	500	0.001035	0.02628	5.25	4.330	15.05
	635	0.000870	0.02210	5.50	3.595	18.65
		0.000732	0.01858	5.75	3.861	22.51
		0.000615	0.01562	6.00	4.381	26.89
		0.000517	0.01314	6.25	4.437	31.33
		0.000435	0.01105	6.50	4.216	35.54
		0.000366	0.00929	6.75	3.960	39.50
Clay		0.000308	0.00781	7.00	3.708	43.21
		0.000259	0.00657	7.25	3.530	46.74
		0.000217	0.00552	7.50	3.427	50.17
		0.000183	0.00465	7.75	3.357	53.52
		0.000154	0.00391	8.00	3.351	56.88
		0.000129	0.00328	8.25	3.376	60.25
		0.000109	0.00276	8.50	3.415	63.67
		0.000091	0.00232	8.75	3.484	67.15
		0.000077	0.00195	9.00	3.584	70.73
		0.000065	0.00164	9.25	3.706	74.44
		0.000054	0.00138	9.50	3.853	78.29
	0.000046	0.00116	9.75	4.000	82.29	
	0.000038	0.00098	10.00	4.011	86.30	
	0.000032	0.00082	10.25	3.861	90.16	
	0.000027	0.00069	10.50	3.467	93.63	
	0.000023	0.00058	10.75	2.868	96.50	
	0.000019	0.00049	11.00	2.086	98.59	
	0.000016	0.00041	11.25	1.135	99.72	
	0.000015	0.00038	11.50	0.279	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0056	0.0056	0.0056	
Mean	Silt sized			
(in)	0.0004	0.0002	0.0002	
(mm)	0.0093	0.0052	0.0053	
Sorting	V. Poor			
	3.246	2.270	2.027	
Skewness	Near symmetrical			
	0.934	0.080	0.052	
Kurtosis	Platykurtic			
	0.245	0.298	0.711	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	56.88	43.12	100.00
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0015	0.0379	4.7226	
10	0.0013	0.0321	4.9632	
16	0.0010	0.0252	5.3117	
25	0.0007	0.0169	5.8868	
30	0.0005	0.0139	6.1706	
50	0.0002	0.0056	7.4867	
60	0.0001	0.0033	8.2299	
75	0.0001	0.0016	9.2837	
84	0.0000	0.0011	9.8512	
90	0.0000	0.0008	10.2384	
95	0.0000	0.0006	10.6139	



Sieve and Laser Particle Size Analysis

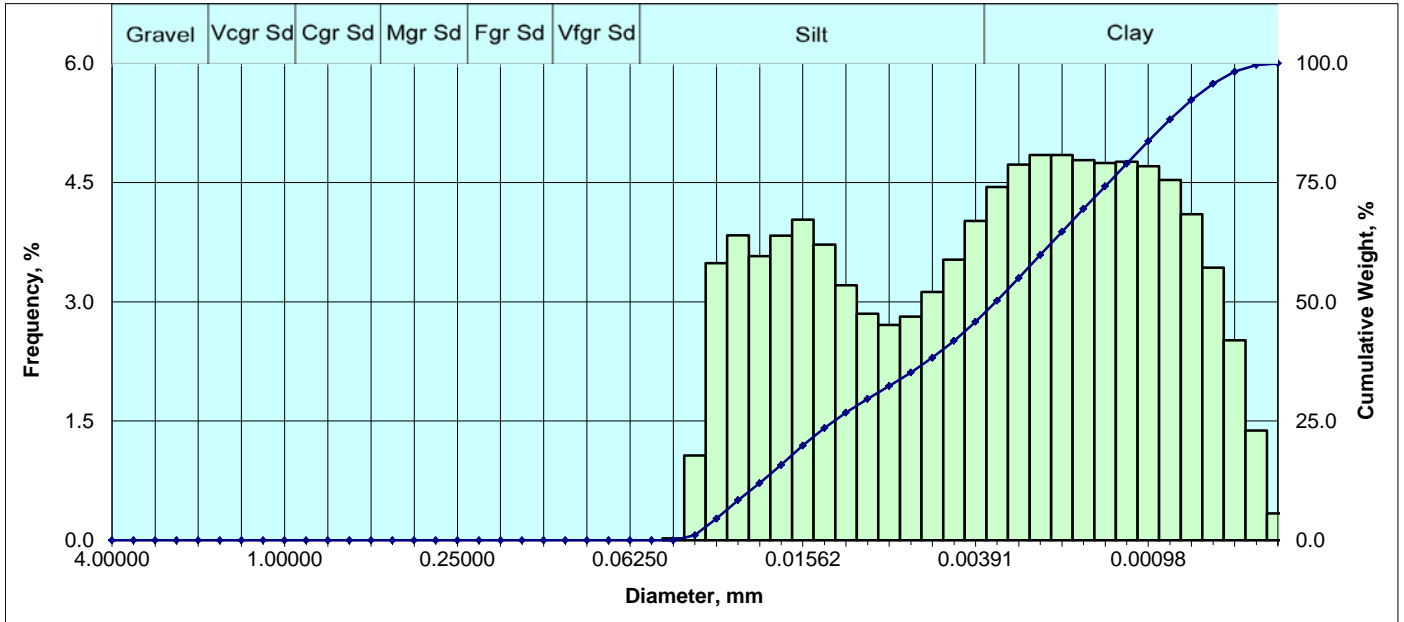


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
Medium Sand	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
Fine Sand	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
V. Fine Sand	170	0.003480	0.08839	3.50	0.033	0.03
	200	0.002926	0.07433	3.75	1.538	1.57
	230	0.002461	0.06250	4.00	3.632	5.20
	270	0.002069	0.05256	4.25	3.175	8.38
	325	0.001740	0.04419	4.50	4.910	13.29
Silt	400	0.001463	0.03716	4.75	4.003	17.29
	450	0.001230	0.03125	5.00	4.660	21.95
	500	0.001035	0.02628	5.25	5.423	27.37
	635	0.000870	0.02210	5.50	4.284	31.66
		0.000732	0.01858	5.75	3.986	35.64
		0.000615	0.01562	6.00	4.555	40.20
		0.000517	0.01314	6.25	4.805	45.00
		0.000435	0.01105	6.50	4.559	49.56
		0.000366	0.00929	6.75	4.160	53.72
		0.000308	0.00781	7.00	3.929	57.65
		0.000259	0.00657	7.25	3.878	61.53
		0.000217	0.00552	7.50	3.847	65.38
		0.000183	0.00465	7.75	3.812	69.19
	0.000154	0.00391	8.00	3.882	73.07	
Clay		0.000129	0.00328	8.25	3.984	77.05
		0.000109	0.00276	8.50	3.953	81.01
		0.000091	0.00232	8.75	3.641	84.65
		0.000077	0.00195	9.00	3.054	87.70
		0.000065	0.00164	9.25	2.349	90.05
		0.000054	0.00138	9.50	1.737	91.79
		0.000046	0.00116	9.75	1.364	93.15
		0.000038	0.00098	10.00	1.257	94.41
		0.000032	0.00082	10.25	1.298	95.71
		0.000027	0.00069	10.50	1.339	97.04
		0.000023	0.00058	10.75	1.260	98.30
		0.000019	0.00049	11.00	1.003	99.31
		0.000016	0.00041	11.25	0.568	99.88
		0.000015	0.00038	11.50	0.125	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0004	0.0004	0.0004
(mm)	0.0109	0.0109	0.0109
Mean	Silt sized		
(in)	0.0006	0.0004	0.0004
(mm)	0.0160	0.0097	0.0101
Sorting	Poor		
	2.809	2.019	1.937
Skewness	Finely skewed		
	0.932	0.259	0.125
Kurtosis	Platykurtic		
	0.258	0.517	0.842
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	5.20	67.87	26.93
			Silt + Clay
			94.80
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0025	0.0632	3.9849
10	0.0020	0.0498	4.3279
16	0.0016	0.0394	4.6646
25	0.0011	0.0285	5.1352
30	0.0009	0.0237	5.3981
50	0.0004	0.0109	6.5244
60	0.0003	0.0071	7.1462
75	0.0001	0.0036	8.1158
84	0.0001	0.0024	8.7023
90	0.0001	0.0016	9.2442
95	0.0000	0.0009	10.1088



Sieve and Laser Particle Size Analysis

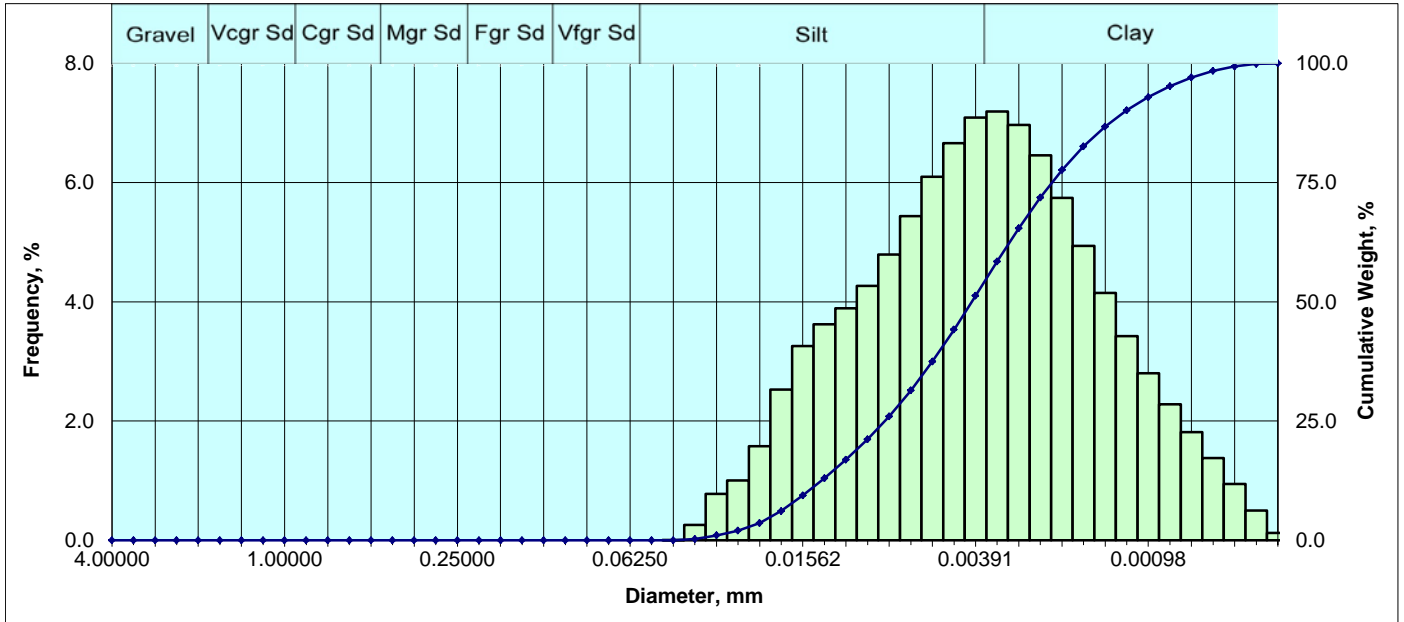


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
Silt	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.025	0.03
	400	0.001463	0.03716	4.75	1.067	1.09
	450	0.001230	0.03125	5.00	3.487	4.58
	500	0.001035	0.02628	5.25	3.836	8.42
	635	0.000870	0.02210	5.50	3.576	11.99
		0.000732	0.01858	5.75	3.832	15.82
		0.000615	0.01562	6.00	4.036	19.86
		0.000517	0.01314	6.25	3.718	23.58
		0.000435	0.01105	6.50	3.210	26.79
Clay		0.000366	0.00929	6.75	2.851	29.64
		0.000308	0.00781	7.00	2.709	32.35
		0.000259	0.00657	7.25	2.815	35.16
		0.000217	0.00552	7.50	3.122	38.28
		0.000183	0.00465	7.75	3.529	41.81
		0.000154	0.00391	8.00	4.018	45.83
		0.000129	0.00328	8.25	4.446	50.28
		0.000109	0.00276	8.50	4.727	55.00
		0.000091	0.00232	8.75	4.849	59.85
		0.000077	0.00195	9.00	4.847	64.70
		0.000065	0.00164	9.25	4.781	69.48
		0.000054	0.00138	9.50	4.745	74.23
		0.000046	0.00116	9.75	4.762	78.99
		0.000038	0.00098	10.00	4.707	83.69
		0.000032	0.00082	10.25	4.534	88.23
	0.000027	0.00069	10.50	4.103	92.33	
	0.000023	0.00058	10.75	3.429	95.76	
	0.000019	0.00049	11.00	2.518	98.28	
	0.000016	0.00041	11.25	1.381	99.66	
	0.000015	0.00038	11.50	0.340	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Clay sized			
(in)	0.0001	0.0001	0.0001	
(mm)	0.0033	0.0033	0.0033	
Mean	Clay sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0068	0.0042	0.0039	
Sorting	Poor			
	3.013	2.128	1.922	
Skewness	Coarse skewed			
	1.220	-0.176	-0.147	
Kurtosis	Platykurtic			
	0.230	0.331	0.730	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	45.83	54.17	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0012	0.0307	5.0254	
10	0.0010	0.0244	5.3555	
16	0.0007	0.0185	5.7601	
25	0.0005	0.0122	6.3555	
30	0.0004	0.0091	6.7810	
50	0.0001	0.0033	8.2331	
60	0.0001	0.0023	8.7570	
75	0.0001	0.0013	9.5378	
84	0.0000	0.0010	10.0156	
90	0.0000	0.0008	10.3527	
95	0.0000	0.0006	10.6907	



Sieve and Laser Particle Size Analysis

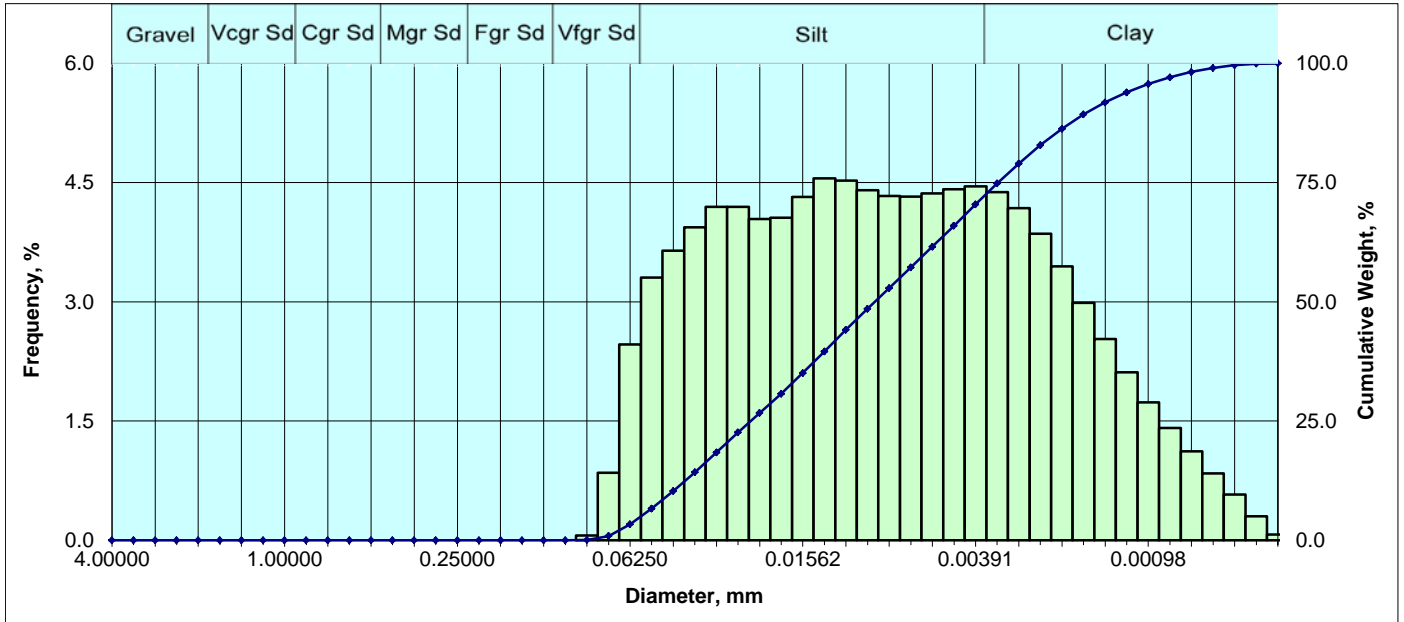


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
Silt	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.007	0.01
	400	0.001463	0.03716	4.75	0.256	0.26
	450	0.001230	0.03125	5.00	0.778	1.04
	500	0.001035	0.02628	5.25	1.005	2.05
	635	0.000870	0.02210	5.50	1.580	3.63
		0.000732	0.01858	5.75	2.526	6.15
		0.000615	0.01562	6.00	3.258	9.41
		0.000517	0.01314	6.25	3.624	13.03
		0.000435	0.01105	6.50	3.891	16.92
Clay		0.000366	0.00929	6.75	4.267	21.19
		0.000308	0.00781	7.00	4.793	25.98
		0.000259	0.00657	7.25	5.438	31.42
		0.000217	0.00552	7.50	6.097	37.52
		0.000183	0.00465	7.75	6.662	44.18
		0.000154	0.00391	8.00	7.092	51.27
		0.000129	0.00328	8.25	7.194	58.47
		0.000109	0.00276	8.50	6.967	65.43
		0.000091	0.00232	8.75	6.457	71.89
		0.000077	0.00195	9.00	5.745	77.63
		0.000065	0.00164	9.25	4.940	82.57
		0.000054	0.00138	9.50	4.147	86.72
		0.000046	0.00116	9.75	3.425	90.15
		0.000038	0.00098	10.00	2.804	92.95
		0.000032	0.00082	10.25	2.284	95.23
	0.000027	0.00069	10.50	1.816	97.05	
	0.000023	0.00058	10.75	1.378	98.43	
	0.000019	0.00049	11.00	0.947	99.38	
	0.000016	0.00041	11.25	0.502	99.88	
	0.000015	0.00038	11.50	0.123	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0040	0.0040	0.0040	
Mean	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0051	0.0042	0.0042	
Sorting	Poor			
	1.955	1.447	1.419	
Skewness	Near symmetrical			
	1.028	-0.018	-0.029	
Kurtosis	Mesokurtic			
	0.213	0.586	0.973	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	51.27	48.73	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0008	0.0202	5.6306	
10	0.0006	0.0152	6.0379	
16	0.0005	0.0115	6.4366	
25	0.0003	0.0081	6.9450	
30	0.0003	0.0069	7.1804	
50	0.0002	0.0040	7.9519	
60	0.0001	0.0032	8.3015	
75	0.0001	0.0021	8.8800	
84	0.0001	0.0016	9.3311	
90	0.0000	0.0012	9.7383	
95	0.0000	0.0008	10.2222	



Sieve and Laser Particle Size Analysis

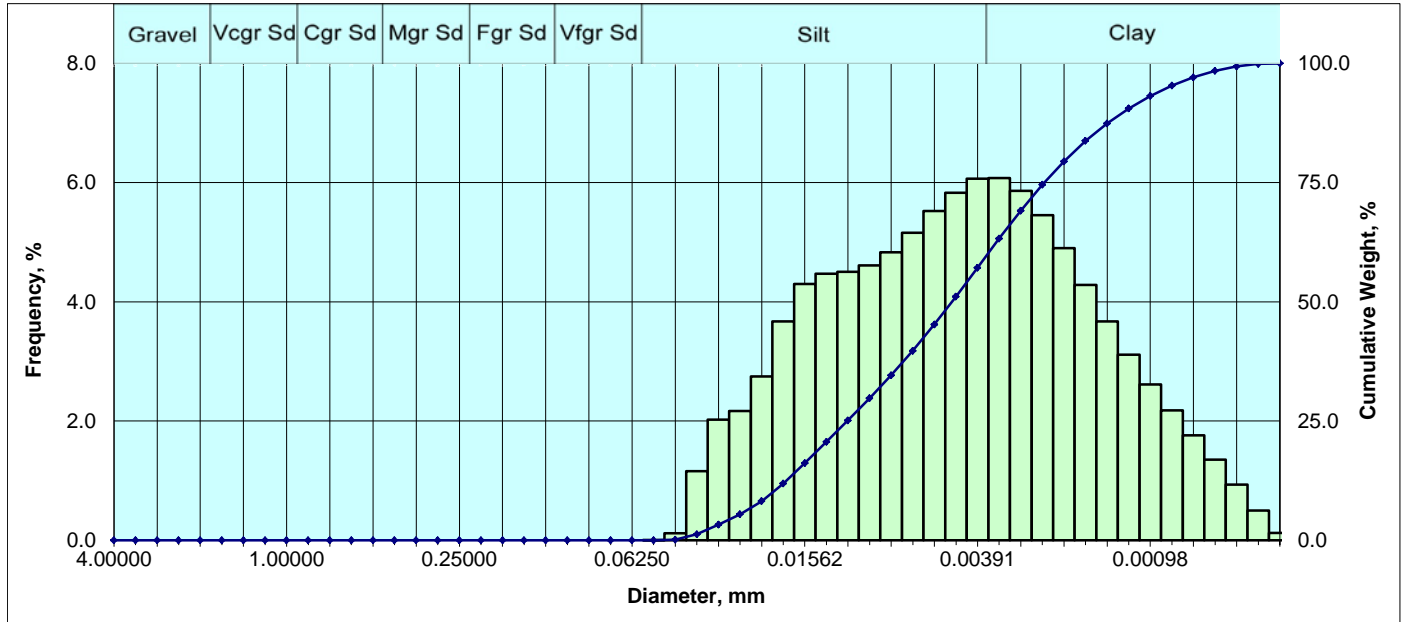


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.059	0.06
	200	0.002926	0.07433	3.75	0.850	0.91
	230	0.002461	0.06250	4.00	2.462	3.37
	Silt	270	0.002069	0.05256	4.25	3.305
325		0.001740	0.04419	4.50	3.643	10.32
400		0.001463	0.03716	4.75	3.938	14.26
450		0.001230	0.03125	5.00	4.195	18.45
500		0.001035	0.02628	5.25	4.197	22.65
635		0.000870	0.02210	5.50	4.040	26.69
		0.000732	0.01858	5.75	4.059	30.75
		0.000615	0.01562	6.00	4.318	35.07
		0.000517	0.01314	6.25	4.554	39.62
		0.000435	0.01105	6.50	4.525	44.14
		0.000366	0.00929	6.75	4.406	48.55
		0.000308	0.00781	7.00	4.332	52.88
		0.000259	0.00657	7.25	4.324	57.21
	0.000217	0.00552	7.50	4.364	61.57	
	0.000183	0.00465	7.75	4.415	65.98	
	0.000154	0.00391	8.00	4.453	70.44	
Clay		0.000129	0.00328	8.25	4.380	74.82
		0.000109	0.00276	8.50	4.179	79.00
		0.000091	0.00232	8.75	3.857	82.85
		0.000077	0.00195	9.00	3.446	86.30
		0.000065	0.00164	9.25	2.988	89.29
		0.000054	0.00138	9.50	2.534	91.82
		0.000046	0.00116	9.75	2.113	93.93
		0.000038	0.00098	10.00	1.737	95.67
		0.000032	0.00082	10.25	1.414	97.09
		0.000027	0.00069	10.50	1.119	98.20
		0.000023	0.00058	10.75	0.843	99.05
		0.000019	0.00049	11.00	0.575	99.62
		0.000016	0.00041	11.25	0.303	99.93
		0.000015	0.00038	11.50	0.074	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0088	0.0088	0.0088	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0003	
(mm)	0.0136	0.0087	0.0088	
Sorting	Poor			
	2.704	1.990	1.871	
Skewness	Near symmetrical			
	1.003	0.090	0.033	
Kurtosis	Platykurtic			
	0.237	0.452	0.825	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	3.37	67.07	29.56	96.63
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0023	0.0576	4.1178	
10	0.0018	0.0449	4.4763	
16	0.0014	0.0347	4.8487	
25	0.0009	0.0238	5.3902	
30	0.0008	0.0192	5.7006	
50	0.0003	0.0088	6.8289	
60	0.0002	0.0059	7.4050	
75	0.0001	0.0033	8.2601	
84	0.0001	0.0022	8.8285	
90	0.0001	0.0016	9.3161	
95	0.0000	0.0010	9.8982	



Sieve and Laser Particle Size Analysis

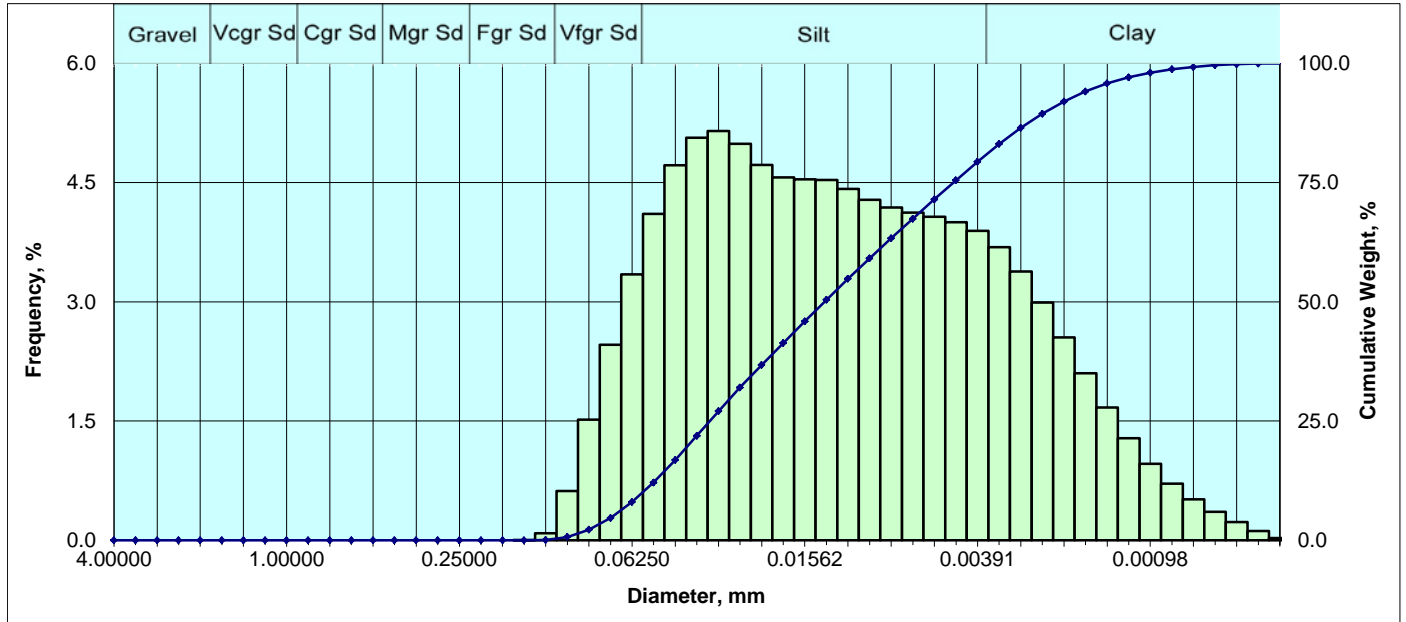


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
Silt	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.116	0.12
	400	0.001463	0.03716	4.75	1.161	1.28
	450	0.001230	0.03125	5.00	2.025	3.30
	500	0.001035	0.02628	5.25	2.166	5.47
	635	0.000870	0.02210	5.50	2.747	8.22
		0.000732	0.01858	5.75	3.673	11.89
		0.000615	0.01562	6.00	4.302	16.19
		0.000517	0.01314	6.25	4.470	20.66
		0.000435	0.01105	6.50	4.501	25.16
		0.000366	0.00929	6.75	4.610	29.77
Clay		0.000308	0.00781	7.00	4.831	34.60
		0.000259	0.00657	7.25	5.160	39.76
		0.000217	0.00552	7.50	5.521	45.28
		0.000183	0.00465	7.75	5.829	51.11
		0.000154	0.00391	8.00	6.065	57.18
		0.000129	0.00328	8.25	6.078	63.25
		0.000109	0.00276	8.50	5.864	69.12
		0.000091	0.00232	8.75	5.453	74.57
		0.000077	0.00195	9.00	4.901	79.47
		0.000065	0.00164	9.25	4.281	83.75
		0.000054	0.00138	9.50	3.672	87.43
	0.000046	0.00116	9.75	3.113	90.54	
	0.000038	0.00098	10.00	2.614	93.15	
	0.000032	0.00082	10.25	2.178	95.33	
	0.000027	0.00069	10.50	1.761	97.09	
	0.000023	0.00058	10.75	1.353	98.44	
	0.000019	0.00049	11.00	0.936	99.38	
	0.000016	0.00041	11.25	0.498	99.88	
	0.000015	0.00038	11.50	0.122	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0048	0.0048	0.0048	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0067	0.0051	0.0050	
Sorting	Poor			
	2.204	1.639	1.580	
Skewness	Near symmetrical			
	1.049	0.001	-0.022	
Kurtosis	Mesokurtic			
	0.230	0.531	0.902	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	57.18	42.82	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0011	0.0274	5.1922	
10	0.0008	0.0204	5.6161	
16	0.0006	0.0158	5.9880	
25	0.0004	0.0111	6.4903	
30	0.0004	0.0092	6.7609	
50	0.0002	0.0048	7.6989	
60	0.0001	0.0036	8.1108	
75	0.0001	0.0023	8.7702	
84	0.0001	0.0016	9.2655	
90	0.0000	0.0012	9.7036	
95	0.0000	0.0008	10.2092	



Sieve and Laser Particle Size Analysis

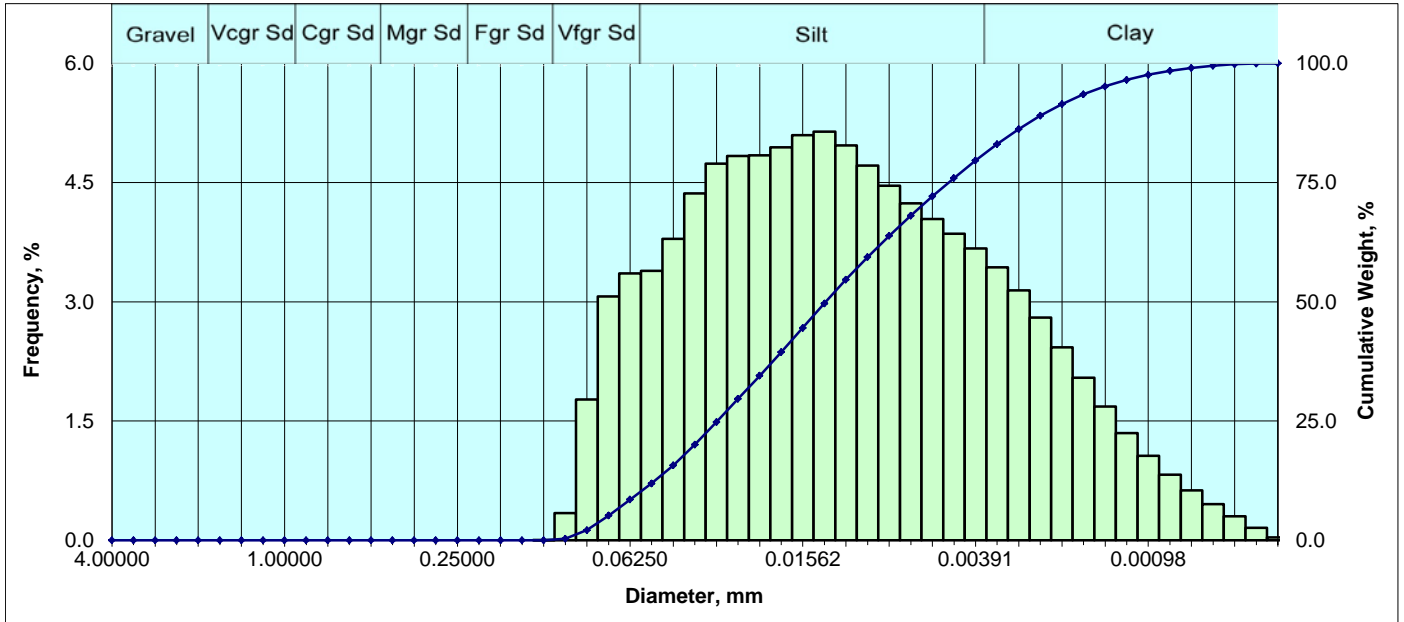


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.001	0.00
	120	0.004921	0.12500	3.00	0.089	0.09
V. Fine Sand	140	0.004138	0.10511	3.25	0.618	0.71
	170	0.003480	0.08839	3.50	1.519	2.23
	200	0.002926	0.07433	3.75	2.461	4.69
	230	0.002461	0.06250	4.00	3.347	8.04
	Silt	270	0.002069	0.05256	4.25	4.107
325		0.001740	0.04419	4.50	4.717	16.86
400		0.001463	0.03716	4.75	5.063	21.92
450		0.001230	0.03125	5.00	5.150	27.07
500		0.001035	0.02628	5.25	4.987	32.06
635		0.000870	0.02210	5.50	4.722	36.78
		0.000732	0.01858	5.75	4.564	41.35
		0.000615	0.01562	6.00	4.543	45.89
		0.000517	0.01314	6.25	4.534	50.42
		0.000435	0.01105	6.50	4.418	54.84
		0.000366	0.00929	6.75	4.285	59.13
		0.000308	0.00781	7.00	4.188	63.31
		0.000259	0.00657	7.25	4.124	67.44
	0.000217	0.00552	7.50	4.072	71.51	
	0.000183	0.00465	7.75	4.001	75.51	
	0.000154	0.00391	8.00	3.895	79.41	
Clay		0.000129	0.00328	8.25	3.686	83.09
		0.000109	0.00276	8.50	3.380	86.47
		0.000091	0.00232	8.75	2.993	89.46
		0.000077	0.00195	9.00	2.554	92.02
		0.000065	0.00164	9.25	2.101	94.12
		0.000054	0.00138	9.50	1.671	95.79
		0.000046	0.00116	9.75	1.284	97.07
		0.000038	0.00098	10.00	0.963	98.04
		0.000032	0.00082	10.25	0.712	98.75
		0.000027	0.00069	10.50	0.515	99.26
		0.000023	0.00058	10.75	0.359	99.62
		0.000019	0.00049	11.00	0.230	99.85
		0.000016	0.00041	11.25	0.118	99.97
		0.000015	0.00038	11.50	0.029	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0134	0.0134	0.0134	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0005	
(mm)	0.0192	0.0120	0.0124	
Sorting	Poor			
	2.659	1.931	1.815	
Skewness	Finely skewed			
	0.946	0.181	0.103	
Kurtosis	Platykurtic			
	0.260	0.451	0.814	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	8.04	71.37	20.59	91.97
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0029	0.0732	3.7716	
10	0.0023	0.0577	4.1142	
16	0.0018	0.0457	4.4511	
25	0.0013	0.0336	4.8941	
30	0.0011	0.0283	5.1415	
50	0.0005	0.0134	6.2248	
60	0.0004	0.0090	6.7988	
75	0.0002	0.0048	7.7156	
84	0.0001	0.0031	8.3131	
90	0.0001	0.0022	8.7989	
95	0.0001	0.0015	9.3763	



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.006	0.01
V. Fine Sand	140	0.004138	0.10511	3.25	0.342	0.35
	170	0.003480	0.08839	3.50	1.772	2.12
	200	0.002926	0.07433	3.75	3.068	5.19
	230	0.002461	0.06250	4.00	3.359	8.55
	Silt	270	0.002069	0.05256	4.25	3.391
325		0.001740	0.04419	4.50	3.791	15.73
400		0.001463	0.03716	4.75	4.362	20.09
450		0.001230	0.03125	5.00	4.737	24.83
500		0.001035	0.02628	5.25	4.835	29.66
635		0.000870	0.02210	5.50	4.844	34.51
		0.000732	0.01858	5.75	4.945	39.45
		0.000615	0.01562	6.00	5.097	44.55
		0.000517	0.01314	6.25	5.141	49.69
		0.000435	0.01105	6.50	4.969	54.66
		0.000366	0.00929	6.75	4.712	59.37
		0.000308	0.00781	7.00	4.461	63.83
		0.000259	0.00657	7.25	4.239	68.07
		0.000217	0.00552	7.50	4.043	72.11
	0.000183	0.00465	7.75	3.857	75.97	
	0.000154	0.00391	8.00	3.672	79.64	
Clay		0.000129	0.00328	8.25	3.435	83.08
		0.000109	0.00276	8.50	3.143	86.22
		0.000091	0.00232	8.75	2.802	89.02
		0.000077	0.00195	9.00	2.429	91.45
		0.000065	0.00164	9.25	2.047	93.50
		0.000054	0.00138	9.50	1.683	95.18
		0.000046	0.00116	9.75	1.350	96.53
		0.000038	0.00098	10.00	1.064	97.60
		0.000032	0.00082	10.25	0.827	98.42
		0.000027	0.00069	10.50	0.627	99.05
		0.000023	0.00058	10.75	0.455	99.50
		0.000019	0.00049	11.00	0.301	99.81
		0.000016	0.00041	11.25	0.156	99.96
		0.000015	0.00038	11.50	0.038	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0130	0.0130	0.0130	
Mean	Silt sized			
(in)	0.0007	0.0005	0.0005	
(mm)	0.0180	0.0117	0.0121	
Sorting	Poor			
	2.527	1.902	1.820	
Skewness	Near symmetrical			
	0.945	0.178	0.099	
Kurtosis	Platykurtic			
	0.234	0.508	0.879	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	8.55	71.10	20.36	91.45
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0030	0.0752	3.7334	
10	0.0023	0.0582	4.1019	
16	0.0017	0.0438	4.5144	
25	0.0012	0.0311	5.0082	
30	0.0010	0.0260	5.2661	
50	0.0005	0.0130	6.2644	
60	0.0004	0.0091	6.7828	
75	0.0002	0.0049	7.6829	
84	0.0001	0.0031	8.3189	
90	0.0001	0.0022	8.8454	
95	0.0001	0.0014	9.4709	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 1690006943-038

CL File Number: 1801096

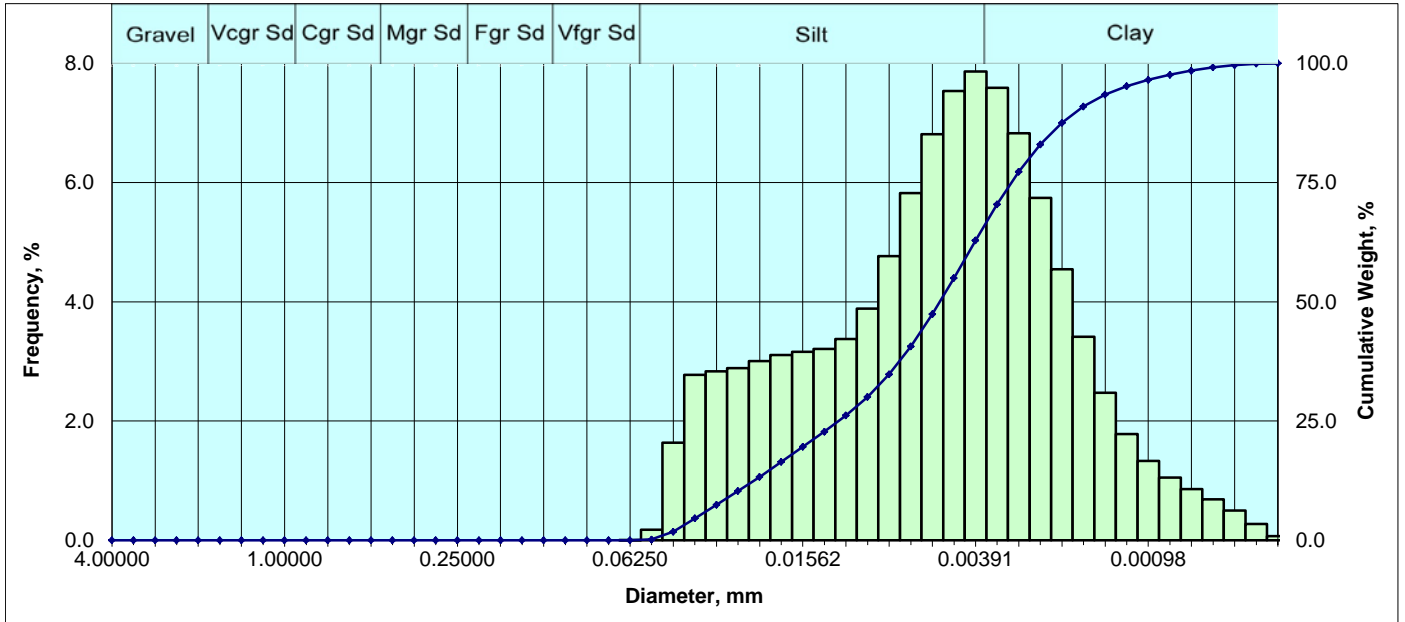
APPENDIX 4

Particle Distribution Plots

Boring ES-26



Sieve and Laser Particle Size Analysis

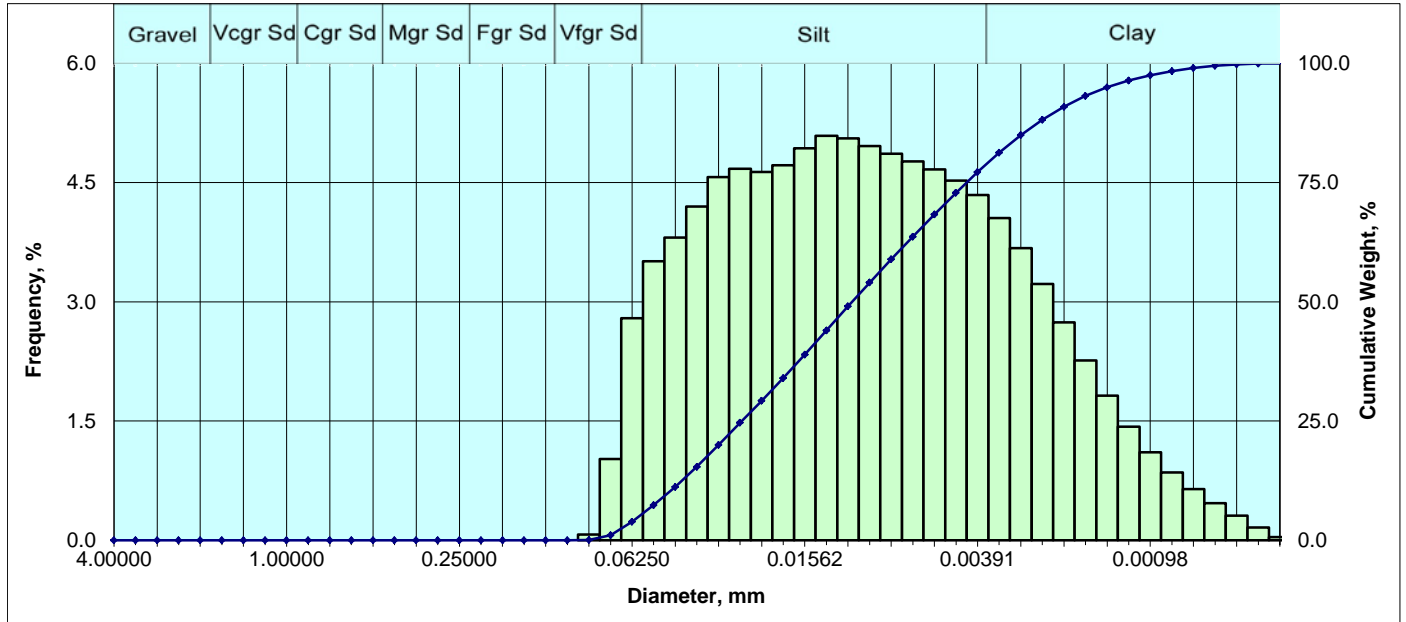


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.003	0.00
	Silt	270	0.002069	0.05256	4.25	0.175
325		0.001740	0.04419	4.50	1.637	1.82
400		0.001463	0.03716	4.75	2.774	4.59
450		0.001230	0.03125	5.00	2.836	7.42
500		0.001035	0.02628	5.25	2.886	10.31
635		0.000870	0.02210	5.50	3.004	13.31
		0.000732	0.01858	5.75	3.108	16.42
		0.000615	0.01562	6.00	3.160	19.58
		0.000517	0.01314	6.25	3.209	22.79
		0.000435	0.01105	6.50	3.375	26.17
		0.000366	0.00929	6.75	3.884	30.05
		0.000308	0.00781	7.00	4.766	34.82
		0.000259	0.00657	7.25	5.823	40.64
	0.000217	0.00552	7.50	6.813	47.45	
	0.000183	0.00465	7.75	7.537	54.99	
	0.000154	0.00391	8.00	7.862	62.85	
Clay		0.000129	0.00328	8.25	7.587	70.44
		0.000109	0.00276	8.50	6.826	77.26
		0.000091	0.00232	8.75	5.744	83.01
		0.000077	0.00195	9.00	4.544	87.55
		0.000065	0.00164	9.25	3.412	90.97
		0.000054	0.00138	9.50	2.477	93.44
		0.000046	0.00116	9.75	1.783	95.23
		0.000038	0.00098	10.00	1.331	96.56
		0.000032	0.00082	10.25	1.054	97.61
		0.000027	0.00069	10.50	0.860	98.47
		0.000023	0.00058	10.75	0.686	99.16
		0.000019	0.00049	11.00	0.499	99.66
		0.000016	0.00041	11.25	0.276	99.93
		0.000015	0.00038	11.50	0.068	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0052	0.0052	0.0052	
Mean	Silt sized			
(in)	0.0003	0.0003	0.0002	
(mm)	0.0074	0.0065	0.0061	
Sorting	Poor			
	2.002	1.544	1.519	
Skewness	Coarse skewed			
	1.125	-0.214	-0.171	
Kurtosis	Mesokurtic			
	0.176	0.597	1.009	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	62.85	37.15	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0014	0.0363	4.7837
10		0.0011	0.0268	5.2209
16		0.0008	0.0191	5.7133
25		0.0005	0.0118	6.4086
30		0.0004	0.0093	6.7464
50		0.0002	0.0052	7.5797
60		0.0002	0.0042	7.9042
75		0.0001	0.0029	8.4122
84		0.0001	0.0022	8.8010
90		0.0001	0.0017	9.1748
95		0.0000	0.0012	9.7159



Sieve and Laser Particle Size Analysis

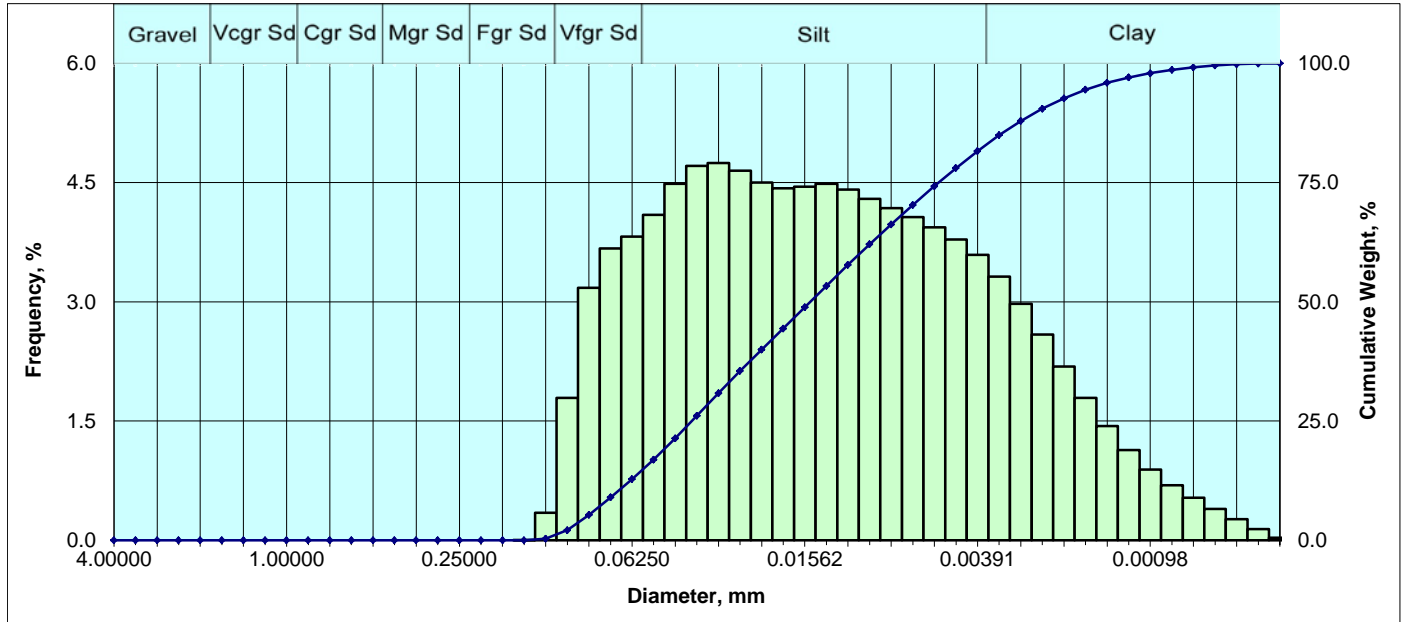


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.074	0.07
	200	0.002926	0.07433	3.75	1.022	1.10
	230	0.002461	0.06250	4.00	2.792	3.89
	Silt	270	0.002069	0.05256	4.25	3.512
325		0.001740	0.04419	4.50	3.807	11.21
400		0.001463	0.03716	4.75	4.201	15.41
450		0.001230	0.03125	5.00	4.569	19.98
500		0.001035	0.02628	5.25	4.672	24.65
635		0.000870	0.02210	5.50	4.633	29.28
		0.000732	0.01858	5.75	4.719	34.00
		0.000615	0.01562	6.00	4.932	38.93
		0.000517	0.01314	6.25	5.089	44.02
		0.000435	0.01105	6.50	5.056	49.08
		0.000366	0.00929	6.75	4.961	54.04
		0.000308	0.00781	7.00	4.863	58.90
		0.000259	0.00657	7.25	4.768	63.67
		0.000217	0.00552	7.50	4.665	68.34
		0.000183	0.00465	7.75	4.527	72.86
	0.000154	0.00391	8.00	4.343	77.20	
Clay		0.000129	0.00328	8.25	4.055	81.26
		0.000109	0.00276	8.50	3.675	84.93
		0.000091	0.00232	8.75	3.227	88.16
		0.000077	0.00195	9.00	2.743	90.90
		0.000065	0.00164	9.25	2.262	93.17
		0.000054	0.00138	9.50	1.818	94.98
		0.000046	0.00116	9.75	1.428	96.41
		0.000038	0.00098	10.00	1.107	97.52
		0.000032	0.00082	10.25	0.853	98.37
		0.000027	0.00069	10.50	0.645	99.02
		0.000023	0.00058	10.75	0.469	99.49
		0.000019	0.00049	11.00	0.311	99.80
		0.000016	0.00041	11.25	0.162	99.96
		0.000015	0.00038	11.50	0.040	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0107	0.0107	0.0107	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0151	0.0103	0.0104	
Sorting	Poor			
	2.462	1.826	1.735	
Skewness	Near symmetrical			
	0.983	0.134	0.062	
Kurtosis	Platykurtic			
	0.242	0.486	0.856	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	3.89	73.32	22.80	96.11
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0023	0.0594	4.0745
10		0.0018	0.0468	4.4159
16		0.0014	0.0364	4.7800
25		0.0010	0.0260	5.2675
30		0.0008	0.0216	5.5353
50		0.0004	0.0107	6.5433
60		0.0003	0.0075	7.0538
75		0.0002	0.0043	7.8677
84		0.0001	0.0029	8.4322
90		0.0001	0.0021	8.9127
95		0.0001	0.0014	9.5025



Sieve and Laser Particle Size Analysis

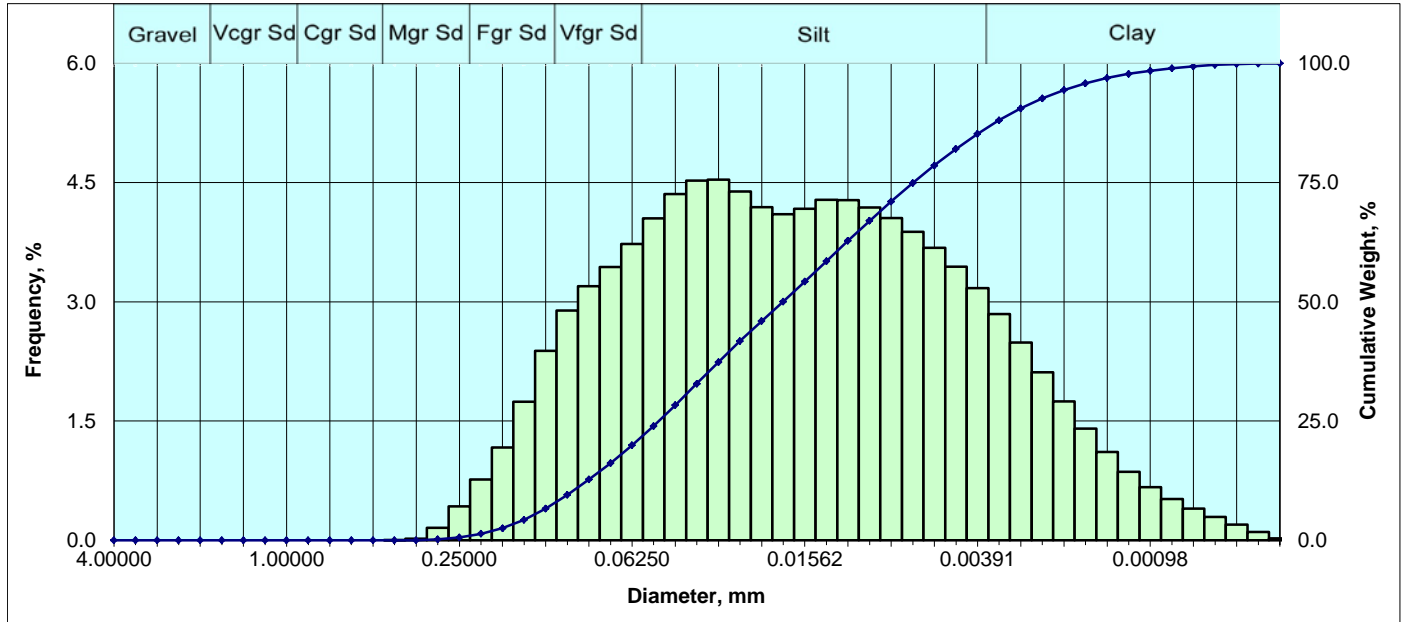


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.006	0.01
	120	0.004921	0.12500	3.00	0.348	0.35
V. Fine Sand	140	0.004138	0.10511	3.25	1.794	2.15
	170	0.003480	0.08839	3.50	3.177	5.32
	200	0.002926	0.07433	3.75	3.672	9.00
	230	0.002461	0.06250	4.00	3.820	12.82
	Silt	270	0.002069	0.05256	4.25	4.092
325		0.001740	0.04419	4.50	4.485	21.39
400		0.001463	0.03716	4.75	4.709	26.10
450		0.001230	0.03125	5.00	4.746	30.85
500		0.001035	0.02628	5.25	4.648	35.50
635		0.000870	0.02210	5.50	4.502	40.00
		0.000732	0.01858	5.75	4.427	44.43
		0.000615	0.01562	6.00	4.448	48.87
		0.000517	0.01314	6.25	4.483	53.36
		0.000435	0.01105	6.50	4.411	57.77
		0.000366	0.00929	6.75	4.295	62.06
		0.000308	0.00781	7.00	4.180	66.24
		0.000259	0.00657	7.25	4.066	70.31
	0.000217	0.00552	7.50	3.939	74.25	
	0.000183	0.00465	7.75	3.783	78.03	
	0.000154	0.00391	8.00	3.589	81.62	
Clay		0.000129	0.00328	8.25	3.316	84.94
		0.000109	0.00276	8.50	2.975	87.91
		0.000091	0.00232	8.75	2.589	90.50
		0.000077	0.00195	9.00	2.184	92.68
		0.000065	0.00164	9.25	1.792	94.48
		0.000054	0.00138	9.50	1.438	95.91
		0.000046	0.00116	9.75	1.135	97.05
		0.000038	0.00098	10.00	0.888	97.94
		0.000032	0.00082	10.25	0.695	98.63
		0.000027	0.00069	10.50	0.534	99.17
		0.000023	0.00058	10.75	0.394	99.56
		0.000019	0.00049	11.00	0.266	99.83
		0.000016	0.00041	11.25	0.140	99.97
		0.000015	0.00038	11.50	0.034	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0150	0.0150	0.0150	
Mean	Silt sized			
(in)	0.0009	0.0005	0.0006	
(mm)	0.0221	0.0138	0.0142	
Sorting	Poor			
	2.693	1.992	1.885	
Skewness	Near symmetrical			
	0.961	0.173	0.090	
Kurtosis	Platykurtic			
	0.243	0.472	0.841	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	12.82	68.80	18.38	87.18
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0035	0.0901	3.4724	
10	0.0028	0.0712	3.8116	
16	0.0022	0.0548	4.1906	
25	0.0015	0.0388	4.6874	
30	0.0013	0.0323	4.9520	
50	0.0006	0.0150	6.0588	
60	0.0004	0.0101	6.6245	
75	0.0002	0.0053	7.5463	
84	0.0001	0.0035	8.1749	
90	0.0001	0.0024	8.6982	
95	0.0001	0.0015	9.3360	



Sieve and Laser Particle Size Analysis

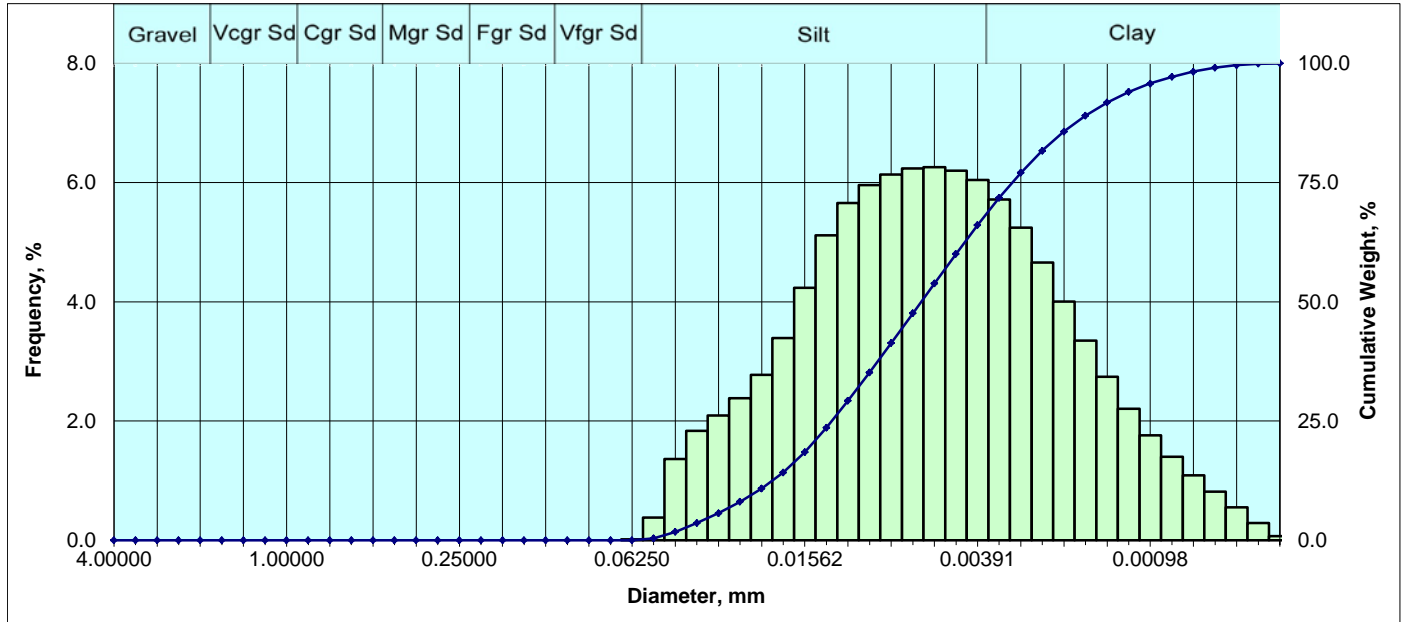


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.022	0.02
	50	0.011705	0.29730	1.75	0.158	0.18
	60	0.009843	0.25000	2.00	0.429	0.61
Fine Sand	70	0.008277	0.21022	2.25	0.766	1.38
	80	0.006960	0.17678	2.50	1.167	2.54
	100	0.005852	0.14865	2.75	1.743	4.29
	120	0.004921	0.12500	3.00	2.384	6.67
V. Fine Sand	140	0.004138	0.10511	3.25	2.889	9.56
	170	0.003480	0.08839	3.50	3.195	12.75
	200	0.002926	0.07433	3.75	3.436	16.19
	230	0.002461	0.06250	4.00	3.728	19.92
	Silt	270	0.002069	0.05256	4.25	4.049
325		0.001740	0.04419	4.50	4.356	28.32
400		0.001463	0.03716	4.75	4.524	32.85
450		0.001230	0.03125	5.00	4.537	37.39
500		0.001035	0.02628	5.25	4.390	41.78
635		0.000870	0.02210	5.50	4.189	45.96
		0.000732	0.01858	5.75	4.104	50.07
		0.000615	0.01562	6.00	4.172	54.24
		0.000517	0.01314	6.25	4.284	58.53
		0.000435	0.01105	6.50	4.278	62.80
		0.000366	0.00929	6.75	4.188	66.99
		0.000308	0.00781	7.00	4.053	71.04
		0.000259	0.00657	7.25	3.881	74.93
		0.000217	0.00552	7.50	3.678	78.60
		0.000183	0.00465	7.75	3.442	82.05
	0.000154	0.00391	8.00	3.172	85.22	
Clay		0.000129	0.00328	8.25	2.848	88.06
		0.000109	0.00276	8.50	2.489	90.55
		0.000091	0.00232	8.75	2.114	92.67
		0.000077	0.00195	9.00	1.746	94.41
		0.000065	0.00164	9.25	1.405	95.82
		0.000054	0.00138	9.50	1.109	96.93
		0.000046	0.00116	9.75	0.863	97.79
		0.000038	0.00098	10.00	0.669	98.46
		0.000032	0.00082	10.25	0.520	98.98
		0.000027	0.00069	10.50	0.398	99.38
		0.000023	0.00058	10.75	0.294	99.67
		0.000019	0.00049	11.00	0.198	99.87
		0.000016	0.00041	11.25	0.104	99.97
		0.000015	0.00038	11.50	0.025	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0186	0.0186	0.0186	
Mean	Silt sized			
(in)	0.0011	0.0007	0.0007	
(mm)	0.0286	0.0177	0.0180	
Sorting	Poor			
	2.779	2.082	1.992	
Skewness	Near symmetrical			
	0.976	0.103	0.051	
Kurtosis	Platykurtic			
	0.220	0.508	0.872	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	19.92	65.30	14.78	80.08
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0056	0.1416	2.8205	
10	0.0040	0.1028	3.2821	
16	0.0030	0.0751	3.7350	
25	0.0020	0.0506	4.3054	
30	0.0016	0.0416	4.5876	
50	0.0007	0.0186	5.7454	
60	0.0005	0.0124	6.3314	
75	0.0003	0.0065	7.2547	
84	0.0002	0.0042	7.8989	
90	0.0001	0.0029	8.4405	
95	0.0001	0.0018	9.0990	



Sieve and Laser Particle Size Analysis

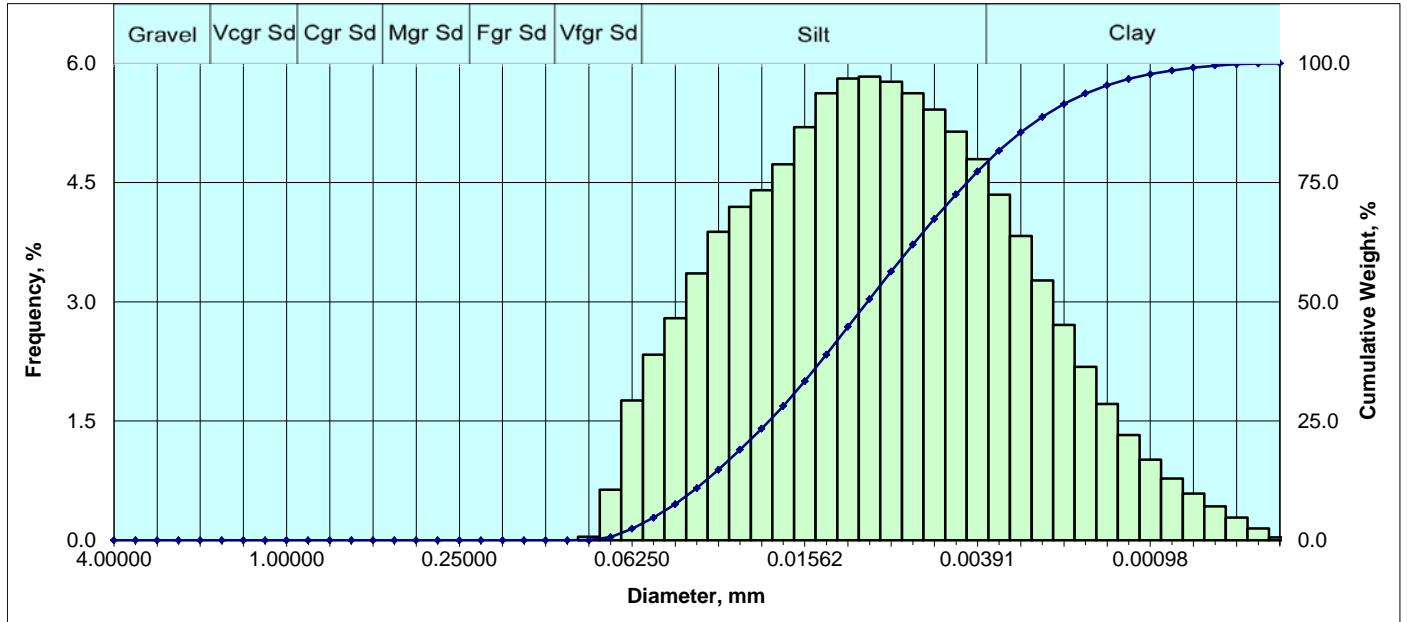


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.019	0.02
	Silt	270	0.002069	0.05256	4.25	0.381
325		0.001740	0.04419	4.50	1.366	1.77
400		0.001463	0.03716	4.75	1.838	3.60
450		0.001230	0.03125	5.00	2.096	5.70
500		0.001035	0.02628	5.25	2.382	8.08
635		0.000870	0.02210	5.50	2.775	10.86
		0.000732	0.01858	5.75	3.391	14.25
		0.000615	0.01562	6.00	4.237	18.48
		0.000517	0.01314	6.25	5.114	23.60
		0.000435	0.01105	6.50	5.659	29.26
		0.000366	0.00929	6.75	5.957	35.21
		0.000308	0.00781	7.00	6.137	41.35
		0.000259	0.00657	7.25	6.235	47.59
	0.000217	0.00552	7.50	6.259	53.85	
	0.000183	0.00465	7.75	6.197	60.04	
	0.000154	0.00391	8.00	6.044	66.09	
Clay		0.000129	0.00328	8.25	5.719	71.81
		0.000109	0.00276	8.50	5.246	77.05
		0.000091	0.00232	8.75	4.657	81.71
		0.000077	0.00195	9.00	4.007	85.71
		0.000065	0.00164	9.25	3.350	89.07
		0.000054	0.00138	9.50	2.742	91.81
		0.000046	0.00116	9.75	2.208	94.02
		0.000038	0.00098	10.00	1.763	95.78
		0.000032	0.00082	10.25	1.402	97.18
		0.000027	0.00069	10.50	1.092	98.27
		0.000023	0.00058	10.75	0.814	99.09
		0.000019	0.00049	11.00	0.552	99.64
		0.000016	0.00041	11.25	0.291	99.93
		0.000015	0.00038	11.50	0.071	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0002	0.0002	0.0002
(mm)	0.0062	0.0062	0.0062
Mean	Silt sized		
(in)	0.0003	0.0002	0.0002
(mm)	0.0078	0.0061	0.0061
Sorting	Poor		
	2.063	1.520	1.513
Skewness	Near symmetrical		
	0.992	0.037	0.020
Kurtosis	Mesokurtic		
	0.221	0.636	0.976
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	0.02	66.07	33.91
Percentile [Weight, %]			
		Particle Diameter	
		[in.]	[mm]
		[φ]	
5	0.0013	0.0332	4.9116
10	0.0009	0.0234	5.4181
16	0.0007	0.0174	5.8482
25	0.0005	0.0126	6.3080
30	0.0004	0.0108	6.5289
50	0.0002	0.0062	7.3413
60	0.0002	0.0047	7.7481
75	0.0001	0.0030	8.3970
84	0.0001	0.0021	8.8877
90	0.0001	0.0016	9.3304
95	0.0000	0.0011	9.8842



Sieve and Laser Particle Size Analysis

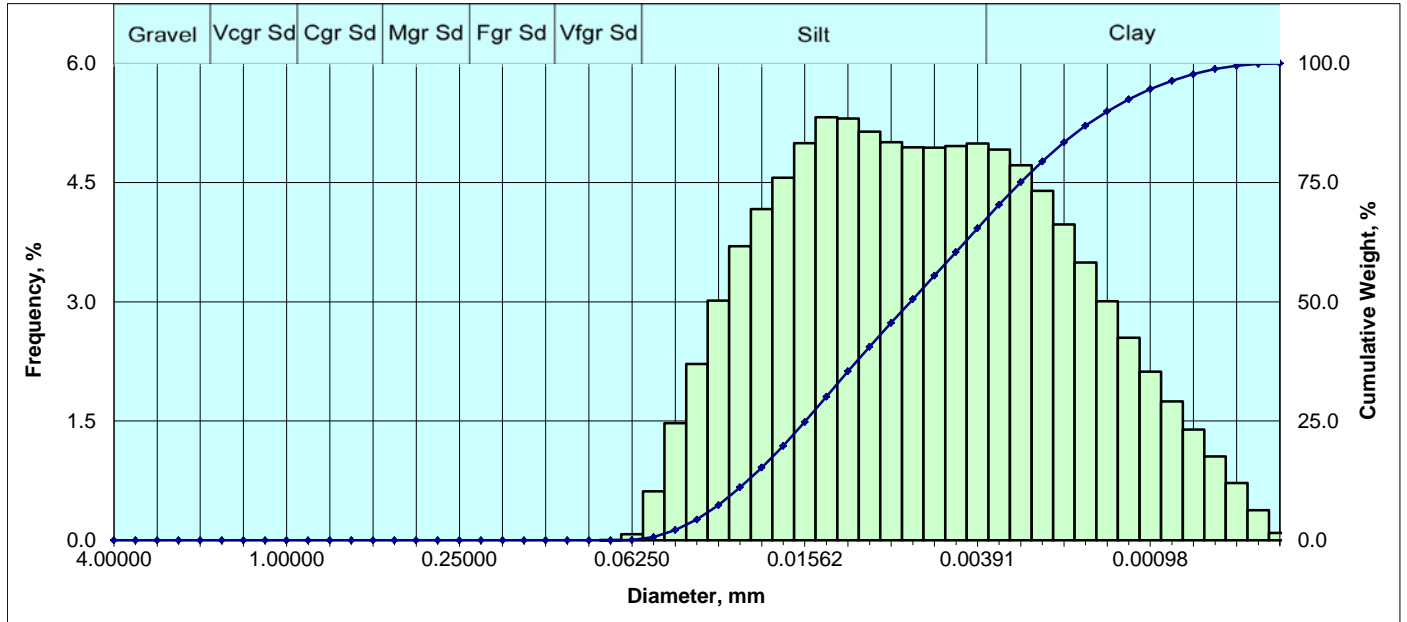


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.046	0.05
	200	0.002926	0.07433	3.75	0.635	0.68
	230	0.002461	0.06250	4.00	1.758	2.44
	Silt	270	0.002069	0.05256	4.25	2.335
325		0.001740	0.04419	4.50	2.795	7.57
400		0.001463	0.03716	4.75	3.356	10.93
450		0.001230	0.03125	5.00	3.879	14.81
500		0.001035	0.02628	5.25	4.196	19.00
635		0.000870	0.02210	5.50	4.405	23.41
		0.000732	0.01858	5.75	4.732	28.14
		0.000615	0.01562	6.00	5.196	33.33
		0.000517	0.01314	6.25	5.625	38.96
		0.000435	0.01105	6.50	5.808	44.77
		0.000366	0.00929	6.75	5.835	50.60
		0.000308	0.00781	7.00	5.768	56.37
		0.000259	0.00657	7.25	5.626	62.00
	0.000217	0.00552	7.50	5.419	67.42	
	0.000183	0.00465	7.75	5.141	72.56	
	0.000154	0.00391	8.00	4.796	77.35	
Clay		0.000129	0.00328	8.25	4.348	81.70
		0.000109	0.00276	8.50	3.828	85.53
		0.000091	0.00232	8.75	3.268	88.80
		0.000077	0.00195	9.00	2.708	91.50
		0.000065	0.00164	9.25	2.180	93.68
		0.000054	0.00138	9.50	1.716	95.40
		0.000046	0.00116	9.75	1.325	96.72
		0.000038	0.00098	10.00	1.014	97.74
		0.000032	0.00082	10.25	0.777	98.52
		0.000027	0.00069	10.50	0.587	99.10
		0.000023	0.00058	10.75	0.427	99.53
		0.000019	0.00049	11.00	0.285	99.81
		0.000016	0.00041	11.25	0.149	99.96
		0.000015	0.00038	11.50	0.036	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0095	0.0095	0.0095	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0126	0.0094	0.0094	
Sorting	Poor			
	2.213	1.664	1.615	
Skewness	Near symmetrical			
	0.997	0.079	0.028	
Kurtosis	Mesokurtic			
	0.225	0.553	0.924	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	2.44	74.91	22.65	97.56
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0020	0.0519	4.2687	
10	0.0015	0.0391	4.6766	
16	0.0012	0.0298	5.0669	
25	0.0008	0.0209	5.5795	
30	0.0007	0.0175	5.8347	
50	0.0004	0.0095	6.7221	
60	0.0003	0.0070	7.1562	
75	0.0002	0.0043	7.8720	
84	0.0001	0.0030	8.3950	
90	0.0001	0.0022	8.8558	
95	0.0001	0.0014	9.4377	



Sieve and Laser Particle Size Analysis

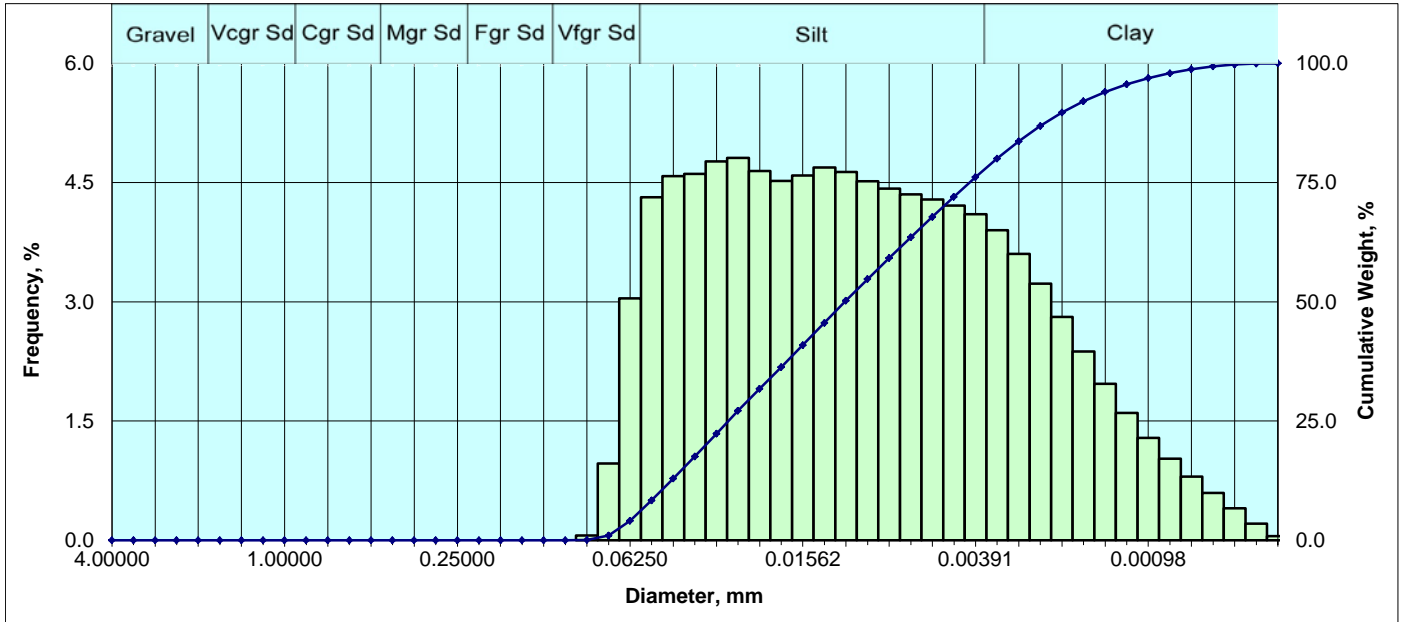


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.001	0.00
	230	0.002461	0.06250	4.00	0.079	0.08
Silt	270	0.002069	0.05256	4.25	0.614	0.69
	325	0.001740	0.04419	4.50	1.474	2.17
	400	0.001463	0.03716	4.75	2.218	4.39
	450	0.001230	0.03125	5.00	3.014	7.40
	500	0.001035	0.02628	5.25	3.700	11.10
	635	0.000870	0.02210	5.50	4.168	15.27
		0.000732	0.01858	5.75	4.562	19.83
		0.000615	0.01562	6.00	4.994	24.82
		0.000517	0.01314	6.25	5.321	30.14
		0.000435	0.01105	6.50	5.305	35.45
Clay		0.000366	0.00929	6.75	5.141	40.59
		0.000308	0.00781	7.00	5.009	45.60
		0.000259	0.00657	7.25	4.945	50.55
		0.000217	0.00552	7.50	4.940	55.49
		0.000183	0.00465	7.75	4.962	60.45
		0.000154	0.00391	8.00	4.990	65.44
		0.000129	0.00328	8.25	4.916	70.35
		0.000109	0.00276	8.50	4.718	75.07
		0.000091	0.00232	8.75	4.394	79.47
		0.000077	0.00195	9.00	3.972	83.44
		0.000065	0.00164	9.25	3.493	86.93
		0.000054	0.00138	9.50	3.007	89.94
		0.000046	0.00116	9.75	2.547	92.49
		0.000038	0.00098	10.00	2.123	94.61
		0.000032	0.00082	10.25	1.747	96.36
	0.000027	0.00069	10.50	1.393	97.75	
	0.000023	0.00058	10.75	1.055	98.80	
	0.000019	0.00049	11.00	0.721	99.53	
	0.000016	0.00041	11.25	0.381	99.91	
	0.000015	0.00038	11.50	0.093	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0067	0.0067	0.0067	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0092	0.0064	0.0065	
Sorting	Poor			
	2.369	1.750	1.671	
Skewness	Near symmetrical			
	0.978	0.117	0.058	
Kurtosis	Platykurtic			
	0.242	0.501	0.865	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.08	65.36	34.56	99.92
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0014	0.0360	4.7975	
10	0.0011	0.0278	5.1711	
16	0.0008	0.0215	5.5373	
25	0.0006	0.0155	6.0076	
30	0.0005	0.0132	6.2426	
50	0.0003	0.0067	7.2202	
60	0.0002	0.0047	7.7256	
75	0.0001	0.0028	8.4959	
84	0.0001	0.0019	9.0374	
90	0.0001	0.0014	9.5055	
95	0.0000	0.0009	10.0522	



Sieve and Laser Particle Size Analysis

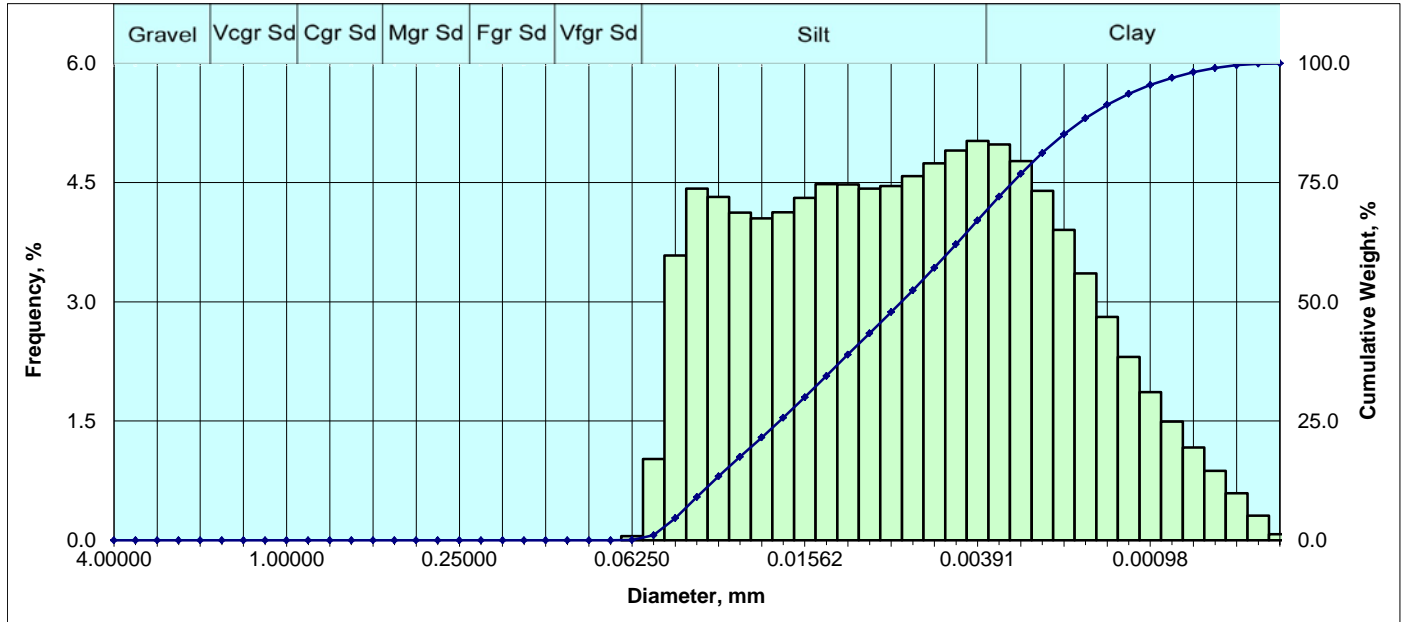


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.062	0.06
	200	0.002926	0.07433	3.75	0.965	1.03
	230	0.002461	0.06250	4.00	3.042	4.07
	Silt	270	0.002069	0.05256	4.25	4.317
325		0.001740	0.04419	4.50	4.583	12.97
400		0.001463	0.03716	4.75	4.610	17.58
450		0.001230	0.03125	5.00	4.767	22.35
500		0.001035	0.02628	5.25	4.813	27.16
635		0.000870	0.02210	5.50	4.647	31.80
		0.000732	0.01858	5.75	4.523	36.33
		0.000615	0.01562	6.00	4.588	40.92
		0.000517	0.01314	6.25	4.692	45.61
		0.000435	0.01105	6.50	4.633	50.24
		0.000366	0.00929	6.75	4.518	54.76
		0.000308	0.00781	7.00	4.423	59.18
		0.000259	0.00657	7.25	4.350	63.53
	0.000217	0.00552	7.50	4.288	67.82	
	0.000183	0.00465	7.75	4.211	72.03	
	0.000154	0.00391	8.00	4.103	76.13	
Clay		0.000129	0.00328	8.25	3.899	80.03
		0.000109	0.00276	8.50	3.603	83.64
		0.000091	0.00232	8.75	3.230	86.87
		0.000077	0.00195	9.00	2.810	89.68
		0.000065	0.00164	9.25	2.377	92.05
		0.000054	0.00138	9.50	1.969	94.02
		0.000046	0.00116	9.75	1.602	95.62
		0.000038	0.00098	10.00	1.288	96.91
		0.000032	0.00082	10.25	1.027	97.94
		0.000027	0.00069	10.50	0.800	98.74
		0.000023	0.00058	10.75	0.595	99.33
		0.000019	0.00049	11.00	0.403	99.74
		0.000016	0.00041	11.25	0.211	99.95
		0.000015	0.00038	11.50	0.052	100.00

Sorting Statistics (Folk)						
Parameter	Trask	Inman	Folk			
Median	Silt sized					
(in)	0.0004	0.0004	0.0004			
(mm)	0.0112	0.0112	0.0112			
Mean	Silt sized					
(in)	0.0006	0.0004	0.0004			
(mm)	0.0163	0.0104	0.0106			
Sorting	Poor					
	2.633	1.933	1.815			
Skewness	Near symmetrical					
	0.970	0.188	0.092			
Kurtosis	Platykurtic					
	0.256	0.448	0.821			
Component Percentages						
Gravel	Sand	Silt	Clay	Silt + Clay		
0.00	4.07	72.07	23.87	95.93		
Percentile [Weight, %]				Particle Diameter		
	(in.)	(mm)	(phi)			
5	0.0024	0.0604	4.0504			
10	0.0020	0.0496	4.3332			
16	0.0016	0.0396	4.6594			
25	0.0011	0.0285	5.1325			
30	0.0009	0.0237	5.3977			
50	0.0004	0.0112	6.4859			
60	0.0003	0.0076	7.0438			
75	0.0002	0.0041	7.9264			
84	0.0001	0.0027	8.5260			
90	0.0001	0.0019	9.0316			
95	0.0000	0.0012	9.6474			



Sieve and Laser Particle Size Analysis

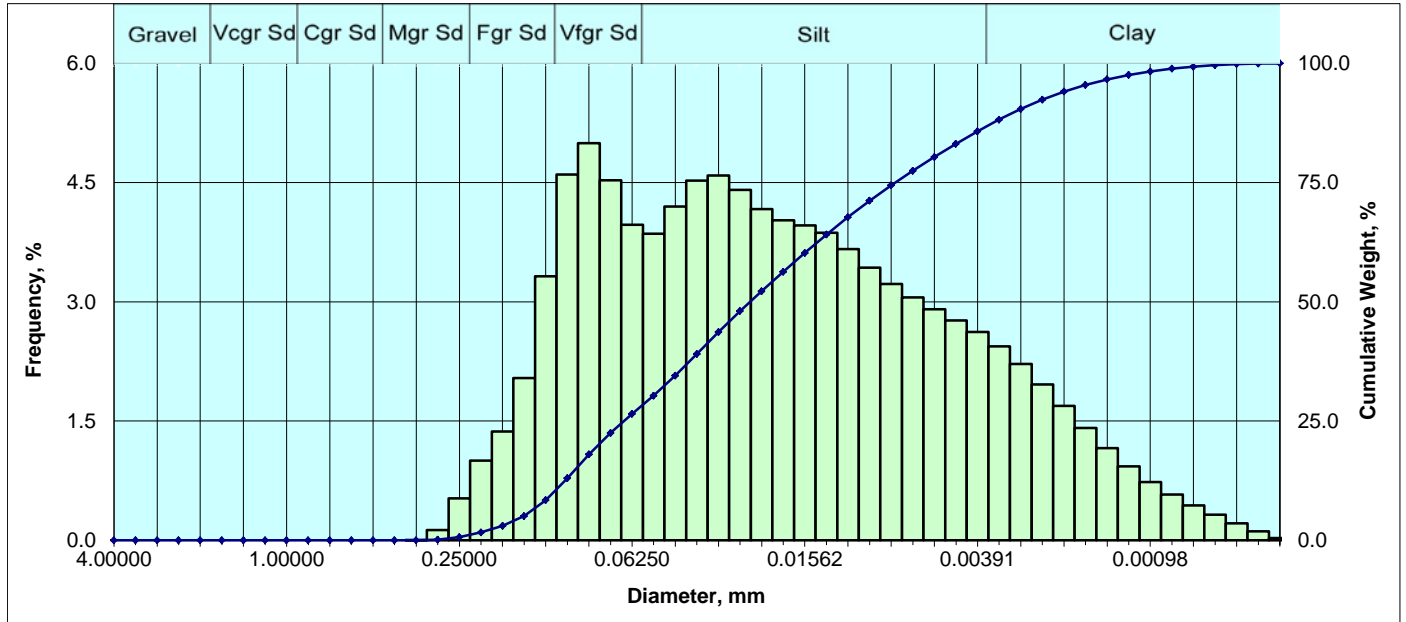


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.051	0.05
	Silt	270	0.002069	0.05256	4.25	1.024
325		0.001740	0.04419	4.50	3.583	4.66
400		0.001463	0.03716	4.75	4.422	9.08
450		0.001230	0.03125	5.00	4.320	13.40
500		0.001035	0.02628	5.25	4.121	17.52
635		0.000870	0.02210	5.50	4.050	21.57
		0.000732	0.01858	5.75	4.126	25.70
		0.000615	0.01562	6.00	4.308	30.01
		0.000517	0.01314	6.25	4.482	34.49
		0.000435	0.01105	6.50	4.477	38.97
		0.000366	0.00929	6.75	4.425	43.39
		0.000308	0.00781	7.00	4.458	47.85
		0.000259	0.00657	7.25	4.579	52.43
	0.000217	0.00552	7.50	4.743	57.17	
	0.000183	0.00465	7.75	4.901	62.07	
	0.000154	0.00391	8.00	5.022	67.09	
Clay		0.000129	0.00328	8.25	4.982	72.08
		0.000109	0.00276	8.50	4.769	76.84
		0.000091	0.00232	8.75	4.395	81.24
		0.000077	0.00195	9.00	3.905	85.14
		0.000065	0.00164	9.25	3.356	88.50
		0.000054	0.00138	9.50	2.811	91.31
		0.000046	0.00116	9.75	2.307	93.62
		0.000038	0.00098	10.00	1.866	95.48
		0.000032	0.00082	10.25	1.496	96.98
		0.000027	0.00069	10.50	1.169	98.15
		0.000023	0.00058	10.75	0.873	99.02
		0.000019	0.00049	11.00	0.591	99.61
		0.000016	0.00041	11.25	0.311	99.92
		0.000015	0.00038	11.50	0.076	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0072	0.0072	0.0072
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0111	0.0076	0.0075
Sorting	Poor		
	2.543	1.885	1.763
Skewness	Near symmetrical		
	1.043	0.060	0.001
Kurtosis	Platykurtic		
	0.236	0.436	0.824
Component Percentages			
Gravel	Sand	Silt	Clay
0.00	0.05	67.04	32.91
Percentile [Weight, %]			
		Particle Diameter	
		[in.]	[mm]
5	0.0017	0.0437	4.5178
10	0.0014	0.0359	4.7997
16	0.0011	0.0281	5.1525
25	0.0008	0.0192	5.7045
30	0.0006	0.0156	5.9996
50	0.0003	0.0072	7.1121
60	0.0002	0.0050	7.6390
75	0.0001	0.0030	8.3981
84	0.0001	0.0021	8.9221
90	0.0001	0.0015	9.3779
95	0.0000	0.0010	9.9308



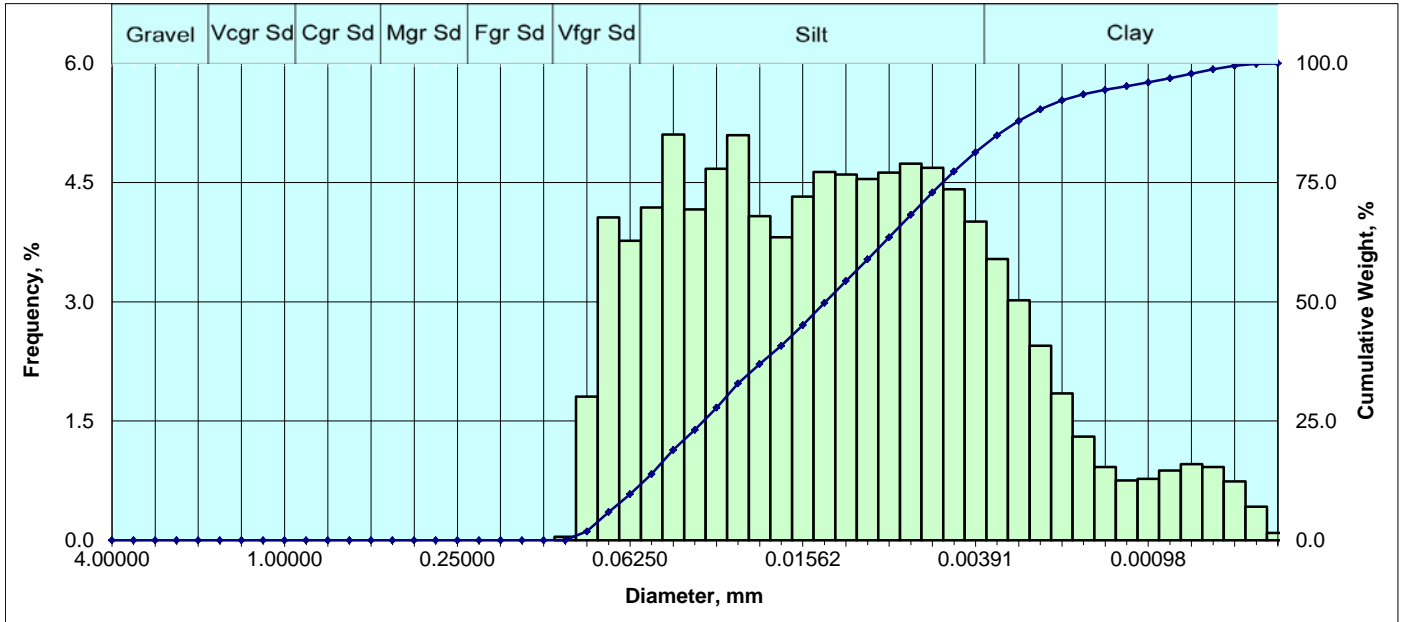
Sieve and Laser Particle Size Analysis



Particle Size Distribution						Sorting Statistics (Folk)					
	Diameter				Weight %		Parameter	Trask	Inman	Folk	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]					
Granule	5	0.157480	4.00000	-2.00	0.000	0.00	Median	Silt sized			
	6	0.132425	3.36359	-1.75	0.000	0.00		(in)	0.0010	0.0010	0.0010
	7	0.111355	2.82843	-1.50	0.000	0.00		(mm)	0.0243	0.0243	0.0243
	8	0.093638	2.37841	-1.25	0.000	0.00		Mean	Silt sized		
	10	0.078740	2.00000	-1.00	0.000	0.00		(in)	0.0015	0.0008	0.0009
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00	(mm)	0.0373	0.0205	0.0217	
	14	0.055678	1.41421	-0.50	0.000	0.00	Sorting	V. Poor			
	16	0.046819	1.18921	-0.25	0.000	0.00		2.973	2.216	2.081	
	18	0.039370	1.00000	0.00	0.000	0.00	Skewness	Finely skewed			
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00		0.925	0.266	0.148	
	25	0.027839	0.70711	0.50	0.000	0.00	Kurtosis	Platykurtic			
	30	0.023410	0.59460	0.75	0.000	0.00		0.258	0.448	0.837	
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00	Component Percentages				
	40	0.016553	0.42045	1.25	0.000	0.00	Gravel	Sand	Silt	Clay	Silt + Clay
	45	0.013919	0.35355	1.50	0.006	0.01	0.00	26.50	59.27	14.23	73.50
	50	0.011705	0.29730	1.75	0.127	0.13	Particle Diameter				
Fine Sand	60	0.009843	0.25000	2.00	0.527	0.66	Percentile [Weight, %]	[in.]	[mm]	[phi]	
	70	0.008277	0.21022	2.25	1.003	1.66	5	0.0059	0.1497	2.7398	
	80	0.006960	0.17678	2.50	1.371	3.03	10	0.0046	0.1181	3.0821	
	100	0.005852	0.14865	2.75	2.042	5.08	16	0.0037	0.0951	3.3947	
V. Fine Sand	120	0.004921	0.12500	3.00	3.323	8.40	25	0.0026	0.0670	3.9006	
	140	0.004138	0.10511	3.25	4.603	13.00	30	0.0021	0.0535	4.2252	
	170	0.003480	0.08839	3.50	4.995	18.00	50	0.0010	0.0243	5.3601	
	200	0.002926	0.07433	3.75	4.530	22.53	60	0.0006	0.0158	5.9842	
Silt	230	0.002461	0.06250	4.00	3.968	26.50	75	0.0003	0.0076	7.0442	
	270	0.002069	0.05256	4.25	3.857	30.35	84	0.0002	0.0044	7.8269	
	325	0.001740	0.04419	4.50	4.200	34.55	90	0.0001	0.0029	8.4490	
	400	0.001463	0.03716	4.75	4.526	39.08	95	0.0001	0.0017	9.1588	
	450	0.001230	0.03125	5.00	4.588	43.67					
	500	0.001035	0.02628	5.25	4.408	48.07					
	635	0.000870	0.02210	5.50	4.168	52.24					
		0.000732	0.01858	5.75	4.025	56.27					
		0.000615	0.01562	6.00	3.963	60.23					
		0.000517	0.01314	6.25	3.869	64.10					
Clay		0.000435	0.01105	6.50	3.663	67.76					
		0.000366	0.00929	6.75	3.432	71.19					
		0.000308	0.00781	7.00	3.226	74.42					
		0.000259	0.00657	7.25	3.054	77.47					
		0.000217	0.00552	7.50	2.906	80.38					
		0.000183	0.00465	7.75	2.764	83.14					
		0.000154	0.00391	8.00	2.621	85.77					
		0.000129	0.00328	8.25	2.439	88.20					
		0.000109	0.00276	8.50	2.217	90.42					
		0.000091	0.00232	8.75	1.962	92.38					
		0.000077	0.00195	9.00	1.689	94.07					
		0.000065	0.00164	9.25	1.415	95.49					
		0.000054	0.00138	9.50	1.159	96.65					
		0.000046	0.00116	9.75	0.929	97.58					
		0.000038	0.00098	10.00	0.734	98.31					
	0.000032	0.00082	10.25	0.575	98.88						
	0.000027	0.00069	10.50	0.439	99.32						
	0.000023	0.00058	10.75	0.322	99.65						
	0.000019	0.00049	11.00	0.215	99.86						
	0.000016	0.00041	11.25	0.112	99.97						
	0.000015	0.00038	11.50	0.027	100.00						



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.043	0.04
	170	0.003480	0.08839	3.50	1.809	1.85
	200	0.002926	0.07433	3.75	4.063	5.91
	230	0.002461	0.06250	4.00	3.767	9.68
Silt	270	0.002069	0.05256	4.25	4.188	13.87
	325	0.001740	0.04419	4.50	5.104	18.97
	400	0.001463	0.03716	4.75	4.161	23.14
	450	0.001230	0.03125	5.00	4.674	27.81
	500	0.001035	0.02628	5.25	5.098	32.91
	635	0.000870	0.02210	5.50	4.078	36.99
		0.000732	0.01858	5.75	3.814	40.80
		0.000615	0.01562	6.00	4.323	45.12
		0.000517	0.01314	6.25	4.633	49.76
		0.000435	0.01105	6.50	4.602	54.36
		0.000366	0.00929	6.75	4.543	58.90
		0.000308	0.00781	7.00	4.626	63.53
		0.000259	0.00657	7.25	4.738	68.26
	0.000217	0.00552	7.50	4.685	72.95	
	0.000183	0.00465	7.75	4.414	77.36	
	0.000154	0.00391	8.00	4.011	81.37	
Clay		0.000129	0.00328	8.25	3.538	84.91
		0.000109	0.00276	8.50	3.021	87.93
		0.000091	0.00232	8.75	2.448	90.38
		0.000077	0.00195	9.00	1.847	92.23
		0.000065	0.00164	9.25	1.306	93.54
		0.000054	0.00138	9.50	0.922	94.46
		0.000046	0.00116	9.75	0.753	95.21
		0.000038	0.00098	10.00	0.773	95.98
		0.000032	0.00082	10.25	0.879	96.86
		0.000027	0.00069	10.50	0.957	97.82
		0.000023	0.00058	10.75	0.923	98.74
		0.000019	0.00049	11.00	0.742	99.49
		0.000016	0.00041	11.25	0.422	99.91
		0.000015	0.00038	11.50	0.093	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0130	0.0130	0.0130	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0005	
(mm)	0.0200	0.0130	0.0130	
Sorting	Poor			
	2.608	1.916	1.865	
Skewness	Near symmetrical			
	1.024	0.219	0.071	
Kurtosis	Platykurtic			
	0.250	0.562	0.887	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	9.68	71.69	18.63	90.32
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0031	0.0775	3.6898	
10	0.0024	0.0617	4.0175	
16	0.0019	0.0491	4.3491	
25	0.0014	0.0348	4.8446	
30	0.0011	0.0291	5.1022	
50	0.0005	0.0130	6.2622	
60	0.0004	0.0089	6.8056	
75	0.0002	0.0051	7.6108	
84	0.0001	0.0034	8.1813	
90	0.0001	0.0024	8.7080	
95	0.0000	0.0012	9.6754	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 1690006943-038

CL File Number: 1801096

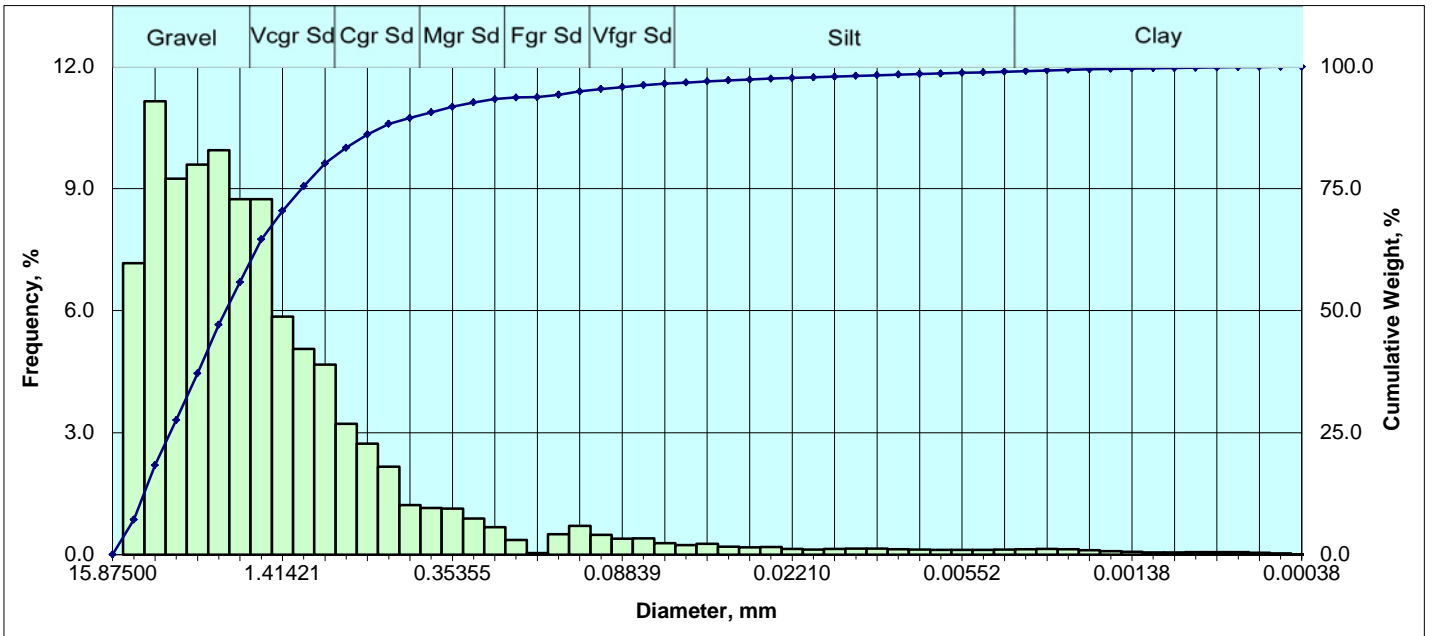
APPENDIX 5

Particle Distribution Plots

Boring ES-27



Sieve and Laser Particle Size Analysis

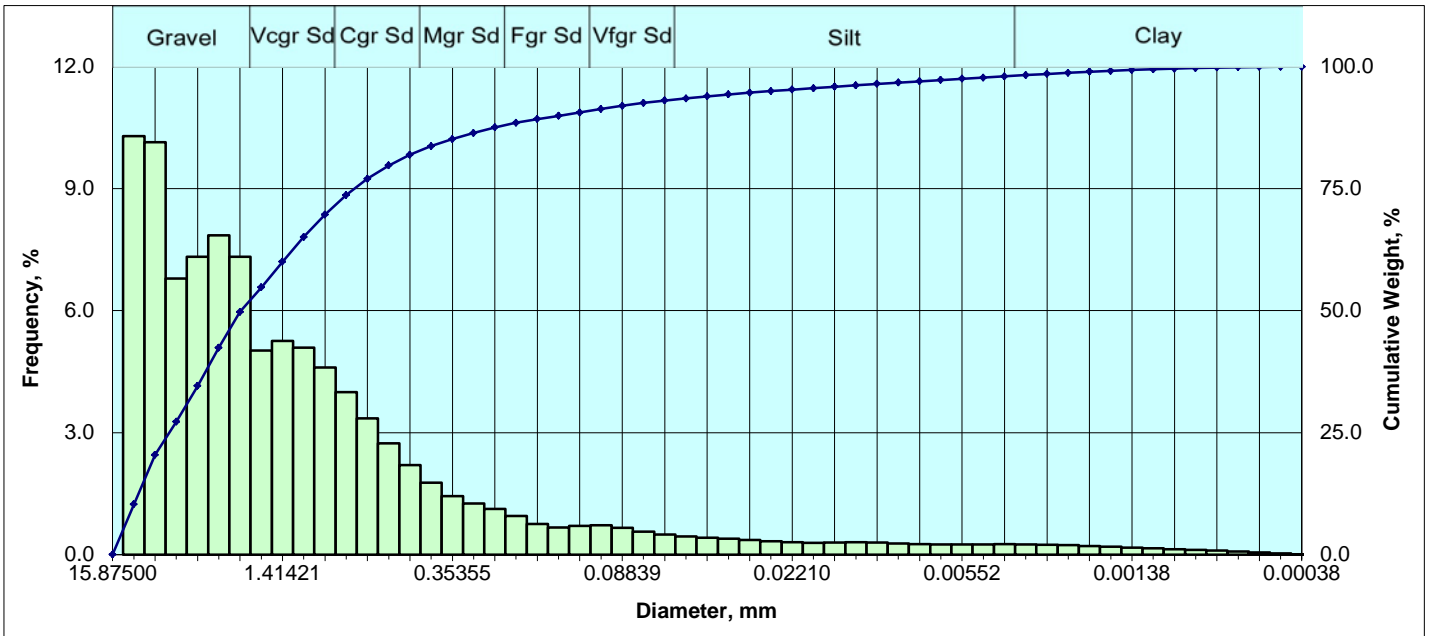


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	0.000	0.000
		0.375000	9.525000	-3.25	7.170	7.170
	5	0.157480	4.000000	-2.00	11.154	18.324
	6	0.132425	3.36359	-1.75	9.247	27.571
	7	0.111355	2.82843	-1.50	9.597	37.168
	8	0.093638	2.37841	-1.25	9.947	47.115
V Crse Sand	10	0.078740	2.00000	-1.00	8.740	55.855
	12	0.066212	1.68179	-0.75	8.747	64.601
	14	0.055678	1.41421	-0.50	5.850	70.451
	16	0.046819	1.18921	-0.25	5.060	75.511
Coarse Sand	18	0.039370	1.00000	0.00	4.676	80.187
	20	0.033106	0.84090	0.25	3.220	83.408
	25	0.027839	0.70711	0.50	2.728	86.136
	30	0.023410	0.59460	0.75	2.163	88.299
Medium Sand	35	0.019685	0.50000	1.00	1.218	89.517
	40	0.016553	0.42045	1.25	1.148	90.665
	45	0.013919	0.35355	1.50	1.129	91.794
	50	0.011705	0.29730	1.75	0.888	92.683
Fine Sand	60	0.009843	0.25000	2.00	0.676	93.358
	70	0.008277	0.21022	2.25	0.360	93.718
	80	0.006960	0.17678	2.50	0.034	93.752
	100	0.005852	0.14865	2.75	0.501	94.253
V. Fine Sand	120	0.004921	0.12500	3.00	0.707	94.960
	140	0.004138	0.10511	3.25	0.482	95.442
	170	0.003480	0.08839	3.50	0.391	95.833
	200	0.002926	0.07433	3.75	0.398	96.231
Silt	230	0.002461	0.06250	4.00	0.282	96.513
	270	0.002069	0.05256	4.25	0.232	96.745
	325	0.001740	0.04419	4.50	0.268	97.012
	400	0.001463	0.03716	4.75	0.192	97.204
	450	0.001230	0.03125	5.00	0.181	97.386
	500	0.001035	0.02628	5.25	0.186	97.571
	635	0.000870	0.02210	5.50	0.141	97.712
		0.000732	0.01858	5.75	0.122	97.834
		0.000615	0.01562	6.00	0.135	97.969
		0.000517	0.01314	6.25	0.146	98.115
		0.000435	0.01105	6.50	0.143	98.258
		0.000366	0.00929	6.75	0.130	98.389
		0.000308	0.00781	7.00	0.121	98.509
		0.000259	0.00657	7.25	0.117	98.626
		0.000217	0.00552	7.50	0.115	98.741
		0.000183	0.00465	7.75	0.115	98.856
	0.000154	0.00391	8.00	0.122	98.978	
Clay		0.000129	0.00328	8.25	0.131	99.109
		0.000109	0.00276	8.50	0.136	99.245
		0.000091	0.00232	8.75	0.129	99.374
		0.000077	0.00195	9.00	0.111	99.485
		0.000065	0.00164	9.25	0.087	99.573
		0.000054	0.00138	9.50	0.067	99.640
		0.000046	0.00116	9.75	0.056	99.695
		0.000038	0.00098	10.00	0.054	99.749
		0.000032	0.00082	10.25	0.058	99.807
		0.000027	0.00069	10.50	0.060	99.867
		0.000023	0.00058	10.75	0.057	99.924
		0.000019	0.00049	11.00	0.045	99.969
		0.000016	0.00041	11.25	0.025	99.994
		0.000015	0.00038	11.50	0.006	100.000

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.0887	0.0887	0.0887	
(mm)	2.2535	2.2535	2.2535	
Mean	Granule sized			
(in)	0.0936	0.0805	0.0832	
(mm)	2.3762	2.0450	2.1123	
Sorting	Poor			
	1.709	1.333	1.657	
Skewness	Finely skewed			
	0.919	0.693	0.194	
Kurtosis	Very leptokurtic			
	0.152	1.452	1.732	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
55.85	40.66	2.47	1.02	3.49
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.4507	11.4471	-3.5169	
10	0.3198	8.1234	-3.0221	
16	0.2028	5.1514	-2.3650	
25	0.1394	3.5406	-1.8240	
30	0.1271	3.2281	-1.6907	
50	0.0887	2.2535	-1.1722	
60	0.0728	1.8492	-0.8869	
75	0.0477	1.2119	-0.2773	
84	0.0320	0.8119	0.3007	
90	0.0184	0.4665	1.1000	
95	0.0049	0.1233	3.0193	



Sieve and Laser Particle Size Analysis

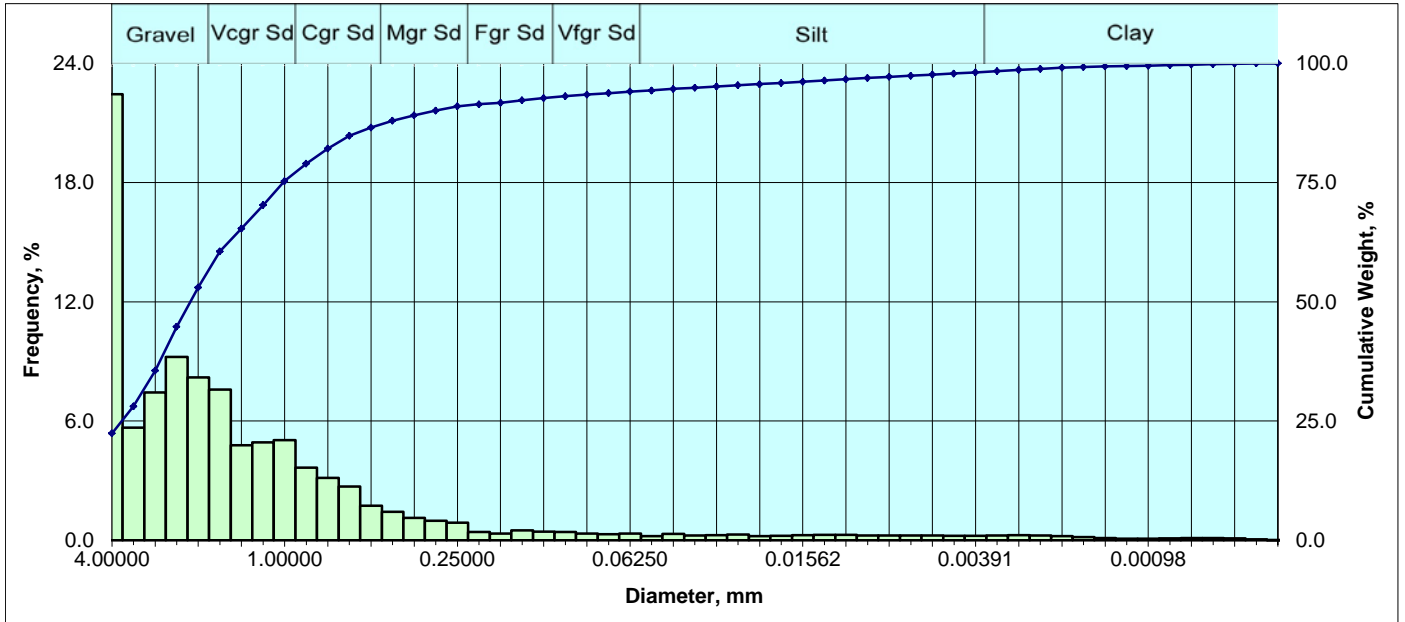


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	0.000	0.000
	5	0.375000	9.525000	-3.25	10.297	10.297
	6	0.157480	4.000000	-2.00	10.141	20.438
	7	0.132425	3.36359	-1.75	6.792	27.230
	8	0.111355	2.82843	-1.50	7.324	34.554
V Crse Sand	10	0.093638	2.37841	-1.25	7.856	42.410
	12	0.078740	2.00000	-1.00	7.324	49.734
	14	0.066212	1.68179	-0.75	5.019	54.753
	16	0.055678	1.41421	-0.50	5.252	60.005
Coarse Sand	18	0.046819	1.18921	-0.25	5.093	65.097
	20	0.039370	1.00000	0.00	4.599	69.696
	25	0.033106	0.84090	0.25	3.992	73.688
Medium Sand	30	0.027839	0.70711	0.50	3.347	77.036
	35	0.023410	0.59460	0.75	2.737	79.772
	40	0.019685	0.50000	1.00	2.202	81.974
Fine Sand	45	0.016553	0.42045	1.25	1.764	83.738
	50	0.013919	0.35355	1.50	1.441	85.179
	60	0.011705	0.29730	1.75	1.254	86.433
V. Fine Sand	70	0.009843	0.25000	2.00	1.125	87.558
	80	0.008277	0.21022	2.25	0.949	88.507
	100	0.006960	0.17678	2.50	0.752	89.258
Silt	120	0.005852	0.14865	2.75	0.668	89.926
	140	0.004921	0.12500	3.00	0.702	90.628
	170	0.004138	0.10511	3.25	0.721	91.349
Clay	200	0.003480	0.08839	3.50	0.661	92.011
	230	0.002926	0.07433	3.75	0.567	92.578
	270	0.002461	0.06250	4.00	0.491	93.069
	325	0.002069	0.05256	4.25	0.443	93.512
	400	0.001740	0.04419	4.50	0.414	93.925
	450	0.001463	0.03716	4.75	0.388	94.314
	500	0.001230	0.03125	5.00	0.361	94.674
	635	0.001035	0.02628	5.25	0.329	95.003
		0.000870	0.02210	5.50	0.301	95.304
		0.000732	0.01858	5.75	0.292	95.596
		0.000615	0.01562	6.00	0.300	95.896
		0.000517	0.01314	6.25	0.305	96.201
		0.000435	0.01105	6.50	0.293	96.494
		0.000366	0.00929	6.75	0.274	96.767
		0.000308	0.00781	7.00	0.259	97.027
	0.000259	0.00657	7.25	0.252	97.279	
	0.000217	0.00552	7.50	0.250	97.529	
	0.000183	0.00465	7.75	0.251	97.780	
	0.000154	0.00391	8.00	0.253	98.033	
	0.000129	0.00328	8.25	0.252	98.285	
	0.000109	0.00276	8.50	0.243	98.528	
	0.000091	0.00232	8.75	0.229	98.757	
	0.000077	0.00195	9.00	0.211	98.968	
	0.000065	0.00164	9.25	0.190	99.158	
	0.000054	0.00138	9.50	0.170	99.328	
	0.000046	0.00116	9.75	0.152	99.480	
	0.000038	0.00098	10.00	0.134	99.614	
	0.000032	0.00082	10.25	0.117	99.731	
	0.000027	0.00069	10.50	0.099	99.830	
	0.000023	0.00058	10.75	0.078	99.908	
	0.000019	0.00049	11.00	0.055	99.963	
	0.000016	0.00041	11.25	0.030	99.993	
	0.000015	0.00038	11.50	0.007	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0781	0.0781	0.0781	
(mm)	1.9831	1.9831	1.9831	
Mean	Very coarse sand sized			
(in)	0.0858	0.0637	0.0682	
(mm)	2.1805	1.6188	1.7321	
Sorting	V. Poor			
	2.129	1.987	2.346	
Skewness	Finely skewed			
	0.846	0.892	0.272	
Kurtosis	Very leptokurtic			
	0.146	1.245	1.678	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
49.73	43.33	4.96	1.97	6.93
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.5036	12.7917	-3.6771	
10	0.3822	9.7084	-3.2792	
16	0.2527	6.4180	-2.6821	
25	0.1407	3.5725	-1.8370	
30	0.1245	3.1612	-1.6605	
50	0.0781	1.9831	-0.9878	
60	0.0557	1.4144	-0.5002	
75	0.0310	0.7885	0.3429	
84	0.0161	0.4083	1.2923	
90	0.0058	0.1462	2.7743	
95	0.0010	0.0263	5.2473	



Sieve and Laser Particle Size Analysis

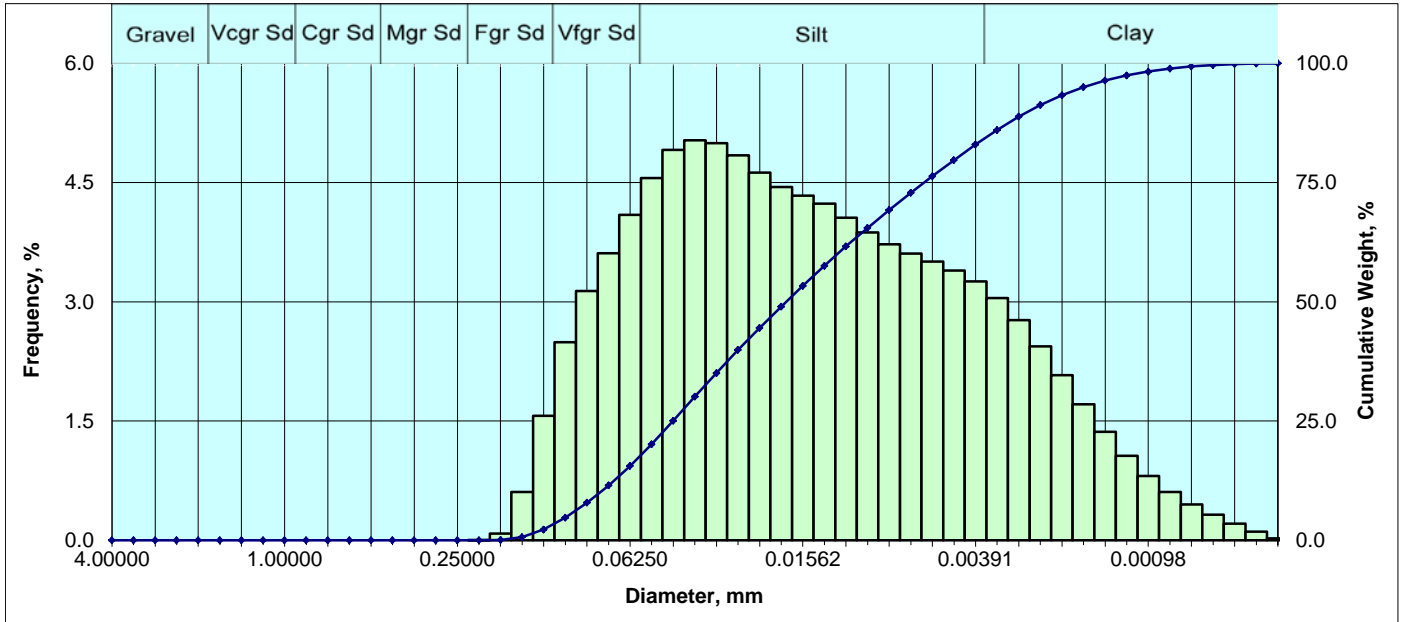


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	22.447	22.45
	6	0.132425	3.36359	-1.75	5.663	28.11
	7	0.111355	2.82843	-1.50	7.445	35.56
	8	0.093638	2.37841	-1.25	9.226	44.78
V Crse Sand	10	0.078740	2.00000	-1.00	8.203	52.98
	12	0.066212	1.68179	-0.75	7.586	60.57
	14	0.055678	1.41421	-0.50	4.784	65.36
	16	0.046819	1.18921	-0.25	4.925	70.28
Coarse Sand	18	0.039370	1.00000	0.00	5.039	75.32
	20	0.033106	0.84090	0.25	3.654	78.97
	25	0.027839	0.70711	0.50	3.138	82.11
	30	0.023410	0.59460	0.75	2.702	84.81
Medium Sand	35	0.019685	0.50000	1.00	1.748	86.56
	40	0.016553	0.42045	1.25	1.430	87.99
	45	0.013919	0.35355	1.50	1.133	89.12
	50	0.011705	0.29730	1.75	0.982	90.10
Fine Sand	60	0.009843	0.25000	2.00	0.889	90.99
	70	0.008277	0.21022	2.25	0.423	91.42
	80	0.006960	0.17678	2.50	0.332	91.75
	100	0.005852	0.14865	2.75	0.505	92.26
V. Fine Sand	120	0.004921	0.12500	3.00	0.439	92.69
	140	0.004138	0.10511	3.25	0.422	93.12
	170	0.003480	0.08839	3.50	0.334	93.45
	200	0.002926	0.07433	3.75	0.310	93.76
Silt	230	0.002461	0.06250	4.00	0.337	94.10
	270	0.002069	0.05256	4.25	0.217	94.31
	325	0.001740	0.04419	4.50	0.326	94.64
	400	0.001463	0.03716	4.75	0.238	94.88
	450	0.001230	0.03125	5.00	0.257	95.14
	500	0.001035	0.02628	5.25	0.297	95.43
	635	0.000870	0.02210	5.50	0.215	95.65
		0.000732	0.01858	5.75	0.222	95.87
		0.000615	0.01562	6.00	0.263	96.13
		0.000517	0.01314	6.25	0.275	96.41
Clay		0.000435	0.01105	6.50	0.271	96.68
		0.000366	0.00929	6.75	0.249	96.93
		0.000308	0.00781	7.00	0.238	97.17
		0.000259	0.00657	7.25	0.240	97.41
		0.000217	0.00552	7.50	0.238	97.64
		0.000183	0.00465	7.75	0.229	97.87
		0.000154	0.00391	8.00	0.231	98.10
		0.000129	0.00328	8.25	0.248	98.35
		0.000109	0.00276	8.50	0.261	98.61
		0.000091	0.00232	8.75	0.251	98.86
		0.000077	0.00195	9.00	0.212	99.07
		0.000065	0.00164	9.25	0.158	99.23
		0.000054	0.00138	9.50	0.111	99.34
		0.000046	0.00116	9.75	0.085	99.43
		0.000038	0.00098	10.00	0.085	99.51
	0.000032	0.00082	10.25	0.100	99.61	
	0.000027	0.00069	10.50	0.114	99.73	
	0.000023	0.00058	10.75	0.114	99.84	
	0.000019	0.00049	11.00	0.094	99.93	
	0.000016	0.00041	11.25	0.054	99.99	
	0.000015	0.00038	11.50	0.012	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.0842	0.0842	0.0842	
(mm)	2.1377	2.1377	2.1377	
Mean	Very coarse sand sized			
(in)	0.0930	0.0738	0.0771	
(mm)	2.3625	1.8738	1.9579	
Sorting	Poor			
	1.916	1.576	1.987	
Skewness	Strongly fine skewed			
	0.907	1.270	0.313	
Kurtosis	Very leptokurtic			
	0.200	1.511	1.730	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
52.98	41.11	4.01	1.90	5.90
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3265	8.2943	-3.0521	
10	0.2781	7.0637	-2.8204	
16	0.2200	5.5869	-2.4820	
25	0.1462	3.7131	-1.8926	
30	0.1271	3.2278	-1.6905	
50	0.0842	2.1377	-1.0960	
60	0.0672	1.7057	-0.7704	
75	0.0398	1.0120	-0.0172	
84	0.0247	0.6284	0.6702	
90	0.0119	0.3033	1.7211	
95	0.0014	0.0344	4.8626	



Sieve and Laser Particle Size Analysis

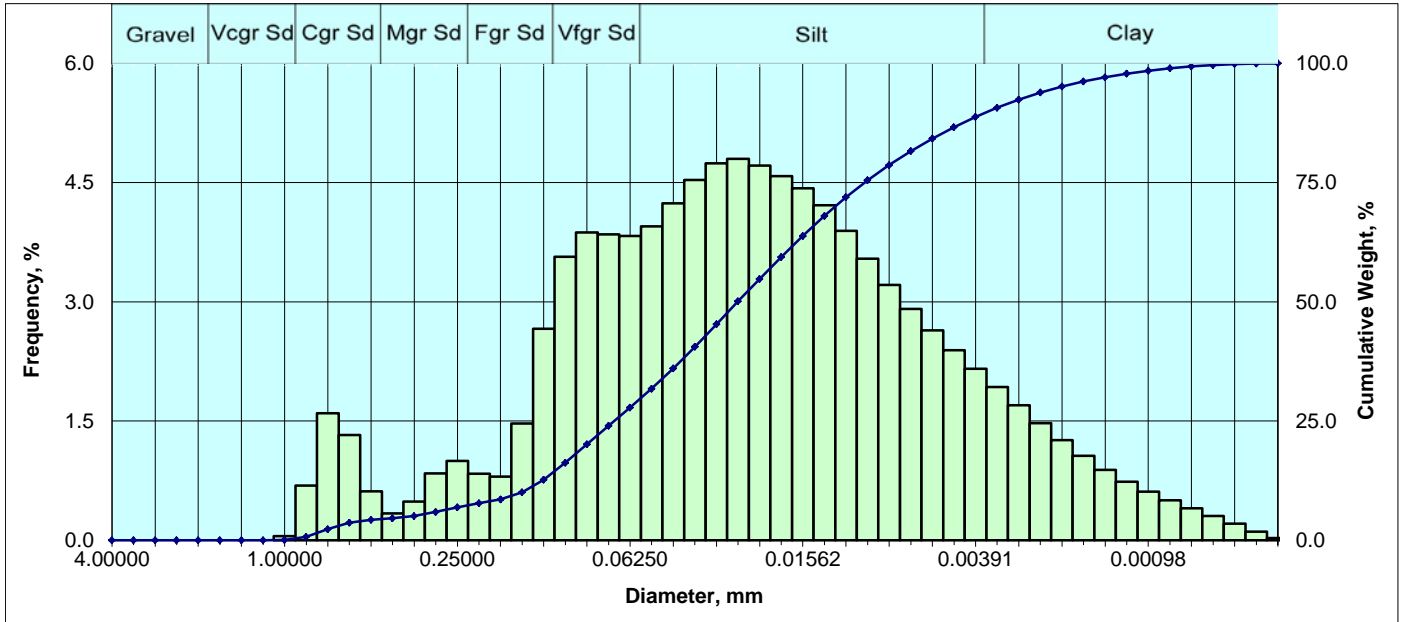


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.003	0.00
	80	0.006960	0.17678	2.50	0.083	0.09
	100	0.005852	0.14865	2.75	0.608	0.69
	120	0.004921	0.12500	3.00	1.565	2.26
V. Fine Sand	140	0.004138	0.10511	3.25	2.493	4.75
	170	0.003480	0.08839	3.50	3.136	7.89
	200	0.002926	0.07433	3.75	3.612	11.50
	230	0.002461	0.06250	4.00	4.094	15.59
	Silt	270	0.002069	0.05256	4.25	4.559
325		0.001740	0.04419	4.50	4.913	25.07
400		0.001463	0.03716	4.75	5.031	30.10
450		0.001230	0.03125	5.00	4.995	35.09
500		0.001035	0.02628	5.25	4.841	39.93
635		0.000870	0.02210	5.50	4.625	44.56
		0.000732	0.01858	5.75	4.446	49.00
		0.000615	0.01562	6.00	4.337	53.34
		0.000517	0.01314	6.25	4.235	57.58
		0.000435	0.01105	6.50	4.056	61.63
		0.000366	0.00929	6.75	3.871	65.50
		0.000308	0.00781	7.00	3.725	69.23
		0.000259	0.00657	7.25	3.609	72.84
	0.000217	0.00552	7.50	3.506	76.34	
	0.000183	0.00465	7.75	3.393	79.74	
	0.000154	0.00391	8.00	3.257	82.99	
Clay		0.000129	0.00328	8.25	3.048	86.04
		0.000109	0.00276	8.50	2.771	88.81
		0.000091	0.00232	8.75	2.440	91.25
		0.000077	0.00195	9.00	2.077	93.33
		0.000065	0.00164	9.25	1.710	95.04
		0.000054	0.00138	9.50	1.367	96.40
		0.000046	0.00116	9.75	1.061	97.47
		0.000038	0.00098	10.00	0.809	98.27
		0.000032	0.00082	10.25	0.610	98.88
		0.000027	0.00069	10.50	0.451	99.34
		0.000023	0.00058	10.75	0.321	99.66
		0.000019	0.00049	11.00	0.209	99.87
		0.000016	0.00041	11.25	0.108	99.97
	0.000015	0.00038	11.50	0.026	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0179	0.0179	0.0179	
Mean	Silt sized			
(in)	0.0010	0.0006	0.0006	
(mm)	0.0251	0.0151	0.0160	
Sorting	Poor			
	2.735	2.029	1.920	
Skewness	Finely skewed			
	0.905	0.223	0.136	
Kurtosis	Platykurtic			
	0.247	0.473	0.844	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	15.59	67.40	17.01	84.41
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0041	0.1038	3.2683	
10	0.0032	0.0802	3.6409	
16	0.0024	0.0616	4.0206	
25	0.0017	0.0443	4.4964	
30	0.0015	0.0373	4.7448	
50	0.0007	0.0179	5.8037	
60	0.0005	0.0119	6.3942	
75	0.0002	0.0059	7.3991	
84	0.0001	0.0037	8.0780	
90	0.0001	0.0025	8.6164	
95	0.0001	0.0016	9.2440	



Sieve and Laser Particle Size Analysis

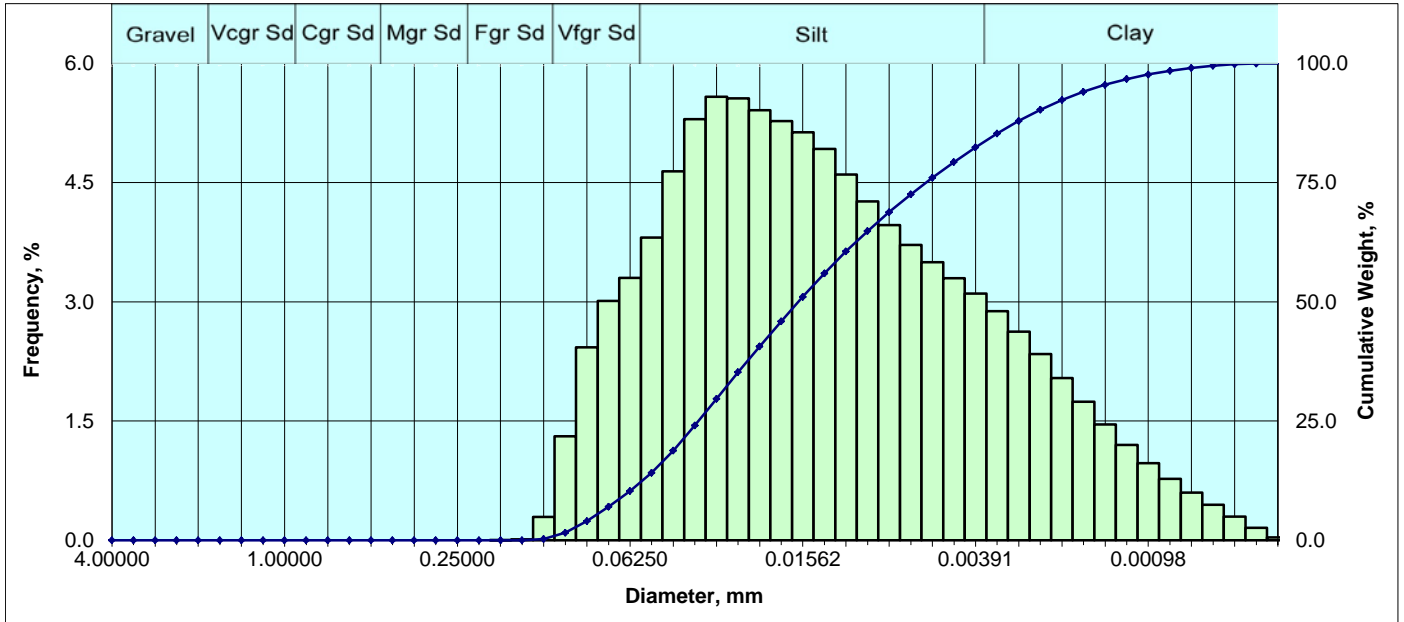


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.054	0.05
Coarse Sand	20	0.033106	0.84090	0.25	0.690	0.74
	25	0.027839	0.70711	0.50	1.597	2.34
	30	0.023410	0.59460	0.75	1.326	3.67
	35	0.019685	0.50000	1.00	0.615	4.28
	40	0.016553	0.42045	1.25	0.338	4.62
Medium Sand	45	0.013919	0.35355	1.50	0.488	5.11
	50	0.011705	0.29730	1.75	0.841	5.95
	60	0.009843	0.25000	2.00	0.997	6.95
	70	0.008277	0.21022	2.25	0.836	7.78
Fine Sand	80	0.006960	0.17678	2.50	0.802	8.58
	100	0.005852	0.14865	2.75	1.469	10.05
	120	0.004921	0.12500	3.00	2.660	12.71
	140	0.004138	0.10511	3.25	3.567	16.28
V. Fine Sand	170	0.003480	0.08839	3.50	3.873	20.15
	200	0.002926	0.07433	3.75	3.848	24.00
	230	0.002461	0.06250	4.00	3.827	27.83
	270	0.002069	0.05256	4.25	3.951	31.78
	325	0.001740	0.04419	4.50	4.240	36.02
	400	0.001463	0.03716	4.75	4.531	40.55
Silt	450	0.001230	0.03125	5.00	4.742	45.29
	500	0.001035	0.02628	5.25	4.798	50.09
	635	0.000870	0.02210	5.50	4.715	54.81
		0.000732	0.01858	5.75	4.581	59.39
		0.000615	0.01562	6.00	4.430	63.82
		0.000517	0.01314	6.25	4.216	68.03
		0.000435	0.01105	6.50	3.893	71.93
		0.000366	0.00929	6.75	3.542	75.47
		0.000308	0.00781	7.00	3.212	78.68
		0.000259	0.00657	7.25	2.912	81.59
		0.000217	0.00552	7.50	2.641	84.23
		0.000183	0.00465	7.75	2.391	86.62
		0.000154	0.00391	8.00	2.159	88.78
	Clay		0.000129	0.00328	8.25	1.929
		0.000109	0.00276	8.50	1.699	92.41
		0.000091	0.00232	8.75	1.474	93.88
		0.000077	0.00195	9.00	1.259	95.14
		0.000065	0.00164	9.25	1.061	96.21
		0.000054	0.00138	9.50	0.888	97.09
		0.000046	0.00116	9.75	0.738	97.83
		0.000038	0.00098	10.00	0.611	98.44
		0.000032	0.00082	10.25	0.502	98.94
		0.000027	0.00069	10.50	0.402	99.35
		0.000023	0.00058	10.75	0.305	99.65
		0.000019	0.00049	11.00	0.210	99.86
		0.000016	0.00041	11.25	0.111	99.97
		0.000015	0.00038	11.50	0.027	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0264	0.0264	0.0264	
Mean	Silt sized			
(in)	0.0016	0.0010	0.0010	
(mm)	0.0404	0.0245	0.0251	
Sorting	V. Poor			
	2.735	2.124	2.203	
Skewness	Near symmetrical			
	0.988	-0.019	0.020	
Kurtosis	Mesokurtic			
	0.211	0.773	1.063	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	27.83	60.95	11.22	72.17
Percentile [Weight. %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0145	0.3684	1.4405	
10	0.0059	0.1497	2.7401	
16	0.0042	0.1067	3.2287	
25	0.0028	0.0712	3.8112	
30	0.0022	0.0570	4.1320	
50	0.0010	0.0264	5.2448	
60	0.0007	0.0182	5.7821	
75	0.0004	0.0095	6.7144	
84	0.0002	0.0056	7.4761	
90	0.0001	0.0035	8.1526	
95	0.0001	0.0020	8.9691	



Sieve and Laser Particle Size Analysis

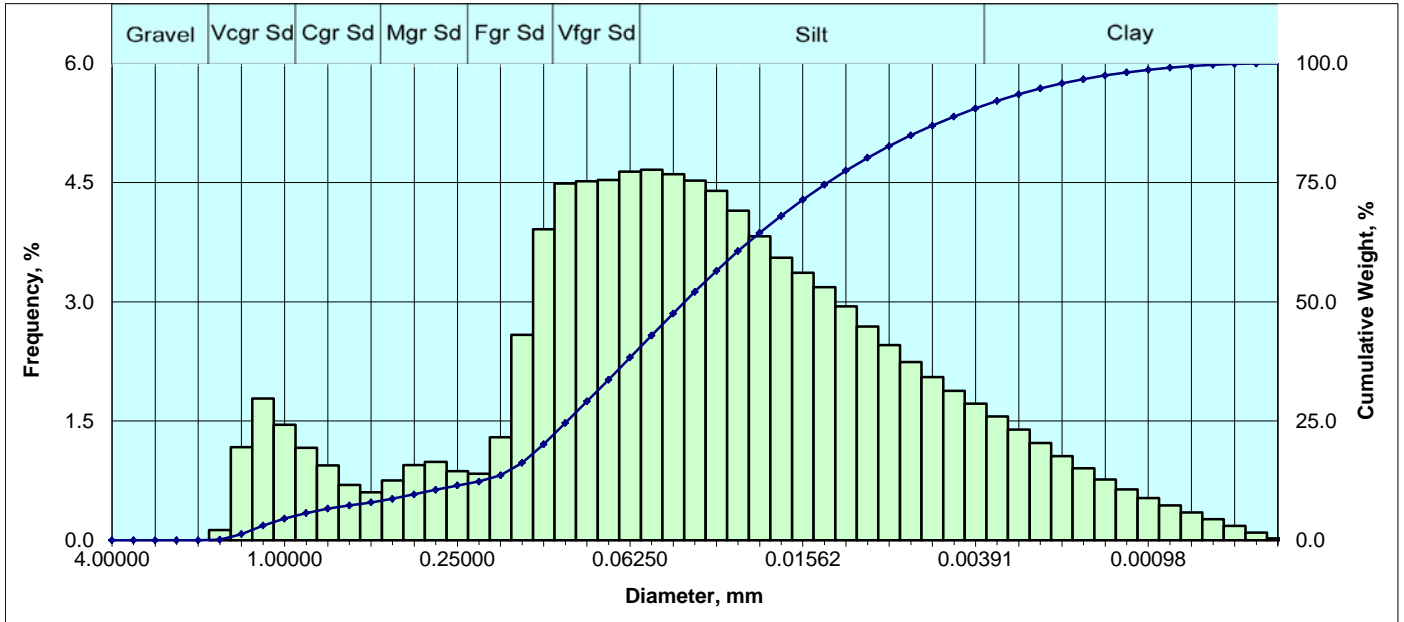


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.011	0.01
	120	0.004921	0.12500	3.00	0.296	0.31
V. Fine Sand	140	0.004138	0.10511	3.25	1.309	1.62
	170	0.003480	0.08839	3.50	2.428	4.04
	200	0.002926	0.07433	3.75	3.011	7.05
	230	0.002461	0.06250	4.00	3.302	10.36
	Silt	270	0.002069	0.05256	4.25	3.810
325		0.001740	0.04419	4.50	4.640	18.81
400		0.001463	0.03716	4.75	5.298	24.10
450		0.001230	0.03125	5.00	5.580	29.68
500		0.001035	0.02628	5.25	5.558	35.24
635		0.000870	0.02210	5.50	5.412	40.65
		0.000732	0.01858	5.75	5.272	45.93
		0.000615	0.01562	6.00	5.133	51.06
		0.000517	0.01314	6.25	4.924	55.98
		0.000435	0.01105	6.50	4.601	60.58
		0.000366	0.00929	6.75	4.262	64.85
		0.000308	0.00781	7.00	3.966	68.81
Clay			0.000259	0.00657	7.25	3.715
		0.000217	0.00552	7.50	3.497	76.02
		0.000183	0.00465	7.75	3.296	79.32
		0.000154	0.00391	8.00	3.104	82.42
		0.000129	0.00328	8.25	2.881	85.30
		0.000109	0.00276	8.50	2.625	87.93
		0.000091	0.00232	8.75	2.342	90.27
		0.000077	0.00195	9.00	2.043	92.31
		0.000065	0.00164	9.25	1.743	94.06
		0.000054	0.00138	9.50	1.458	95.52
		0.000046	0.00116	9.75	1.199	96.71
		0.000038	0.00098	10.00	0.970	97.68
		0.000032	0.00082	10.25	0.775	98.46
	0.000027	0.00069	10.50	0.602	99.06	
	0.000023	0.00058	10.75	0.445	99.51	
	0.000019	0.00049	11.00	0.299	99.81	
	0.000016	0.00041	11.25	0.156	99.96	
	0.000015	0.00038	11.50	0.038	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0162	0.0162	0.0162	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0006	
(mm)	0.0210	0.0133	0.0142	
Sorting	Poor			
	2.492	1.894	1.831	
Skewness	Finely skewed			
	0.895	0.288	0.171	
Kurtosis	Mesokurtic			
	0.247	0.540	0.907	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	10.36	72.07	17.58	89.64
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0033	0.0839	3.5748	
10	0.0025	0.0638	3.9708	
16	0.0019	0.0493	4.3437	
25	0.0014	0.0362	4.7874	
30	0.0012	0.0310	5.0131	
50	0.0006	0.0162	5.9448	
60	0.0004	0.0113	6.4658	
75	0.0002	0.0058	7.4222	
84	0.0001	0.0036	8.1314	
90	0.0001	0.0024	8.7187	
95	0.0001	0.0015	9.4066	



Sieve and Laser Particle Size Analysis

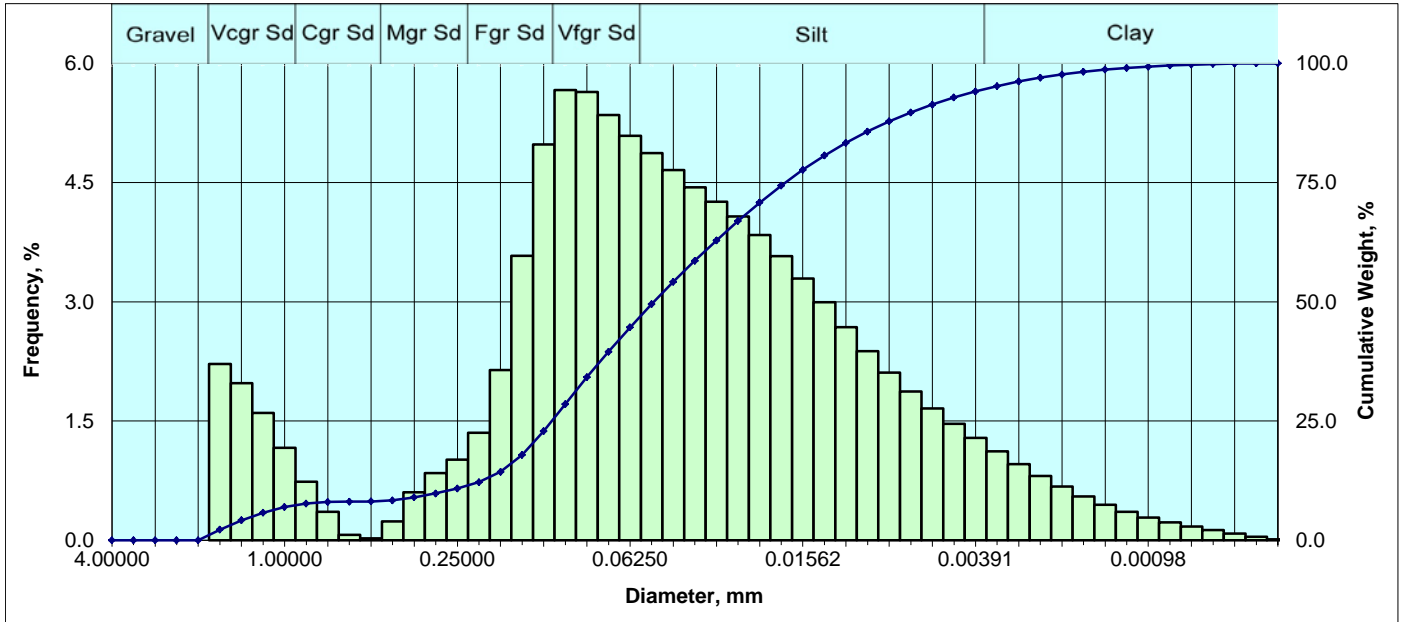


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.129	0.13
	14	0.055678	1.41421	-0.50	1.172	1.30
	16	0.046819	1.18921	-0.25	1.784	3.08
	18	0.039370	1.00000	0.00	1.455	4.54
Coarse Sand	20	0.033106	0.84090	0.25	1.164	5.70
	25	0.027839	0.70711	0.50	0.941	6.65
	30	0.023410	0.59460	0.75	0.699	7.34
	35	0.019685	0.50000	1.00	0.603	7.95
	40	0.016553	0.42045	1.25	0.753	8.70
Medium Sand	45	0.013919	0.35355	1.50	0.946	9.65
	50	0.011705	0.29730	1.75	0.987	10.63
	60	0.009843	0.25000	2.00	0.871	11.50
	70	0.008277	0.21022	2.25	0.837	12.34
Fine Sand	80	0.006960	0.17678	2.50	1.298	13.64
	100	0.005852	0.14865	2.75	2.587	16.23
	120	0.004921	0.12500	3.00	3.915	20.14
	140	0.004138	0.10511	3.25	4.487	24.63
V. Fine Sand	170	0.003480	0.08839	3.50	4.516	29.14
	200	0.002926	0.07433	3.75	4.533	33.68
	230	0.002461	0.06250	4.00	4.638	38.31
	270	0.002069	0.05256	4.25	4.661	42.98
	325	0.001740	0.04419	4.50	4.607	47.58
Silt	400	0.001463	0.03716	4.75	4.524	52.11
	450	0.001230	0.03125	5.00	4.396	56.50
	500	0.001035	0.02628	5.25	4.147	60.65
	635	0.000870	0.02210	5.50	3.825	64.47
		0.000732	0.01858	5.75	3.554	68.03
		0.000615	0.01562	6.00	3.365	71.39
		0.000517	0.01314	6.25	3.184	74.58
		0.000435	0.01105	6.50	2.944	77.52
		0.000366	0.00929	6.75	2.691	80.21
		0.000308	0.00781	7.00	2.455	82.67
		0.000259	0.00657	7.25	2.243	84.91
		0.000217	0.00552	7.50	2.053	86.96
		0.000183	0.00465	7.75	1.879	88.84
	0.000154	0.00391	8.00	1.719	90.56	
Clay		0.000129	0.00328	8.25	1.557	92.12
		0.000109	0.00276	8.50	1.391	93.51
		0.000091	0.00232	8.75	1.225	94.73
		0.000077	0.00195	9.00	1.061	95.79
		0.000065	0.00164	9.25	0.906	96.70
		0.000054	0.00138	9.50	0.765	97.46
		0.000046	0.00116	9.75	0.642	98.11
		0.000038	0.00098	10.00	0.533	98.64
		0.000032	0.00082	10.25	0.439	99.08
		0.000027	0.00069	10.50	0.351	99.43
		0.000023	0.00058	10.75	0.267	99.70
		0.000019	0.00049	11.00	0.183	99.88
		0.000016	0.00041	11.25	0.097	99.98
		0.000015	0.00038	11.50	0.024	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0016	0.0016	0.0016	
(mm)	0.0404	0.0404	0.0404	
Mean	Silt sized			
(in)	0.0023	0.0013	0.0014	
(mm)	0.0583	0.0327	0.0351	
Sorting	V. Poor			
	2.843	2.208	2.425	
Skewness	Near symmetrical			
	0.902	-0.080	0.049	
Kurtosis	Lepokurtic			
	0.138	0.973	1.185	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	38.31	52.25	9.44	61.69
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0369	0.9371	0.0937	
10	0.0131	0.3334	1.5848	
16	0.0059	0.1511	2.7264	
25	0.0041	0.1037	3.2691	
30	0.0034	0.0857	3.5440	
50	0.0016	0.0404	4.6282	
60	0.0011	0.0271	5.2079	
75	0.0005	0.0128	6.2834	
84	0.0003	0.0071	7.1433	
90	0.0002	0.0041	7.9137	
95	0.0001	0.0022	8.8090	



Sieve and Laser Particle Size Analysis

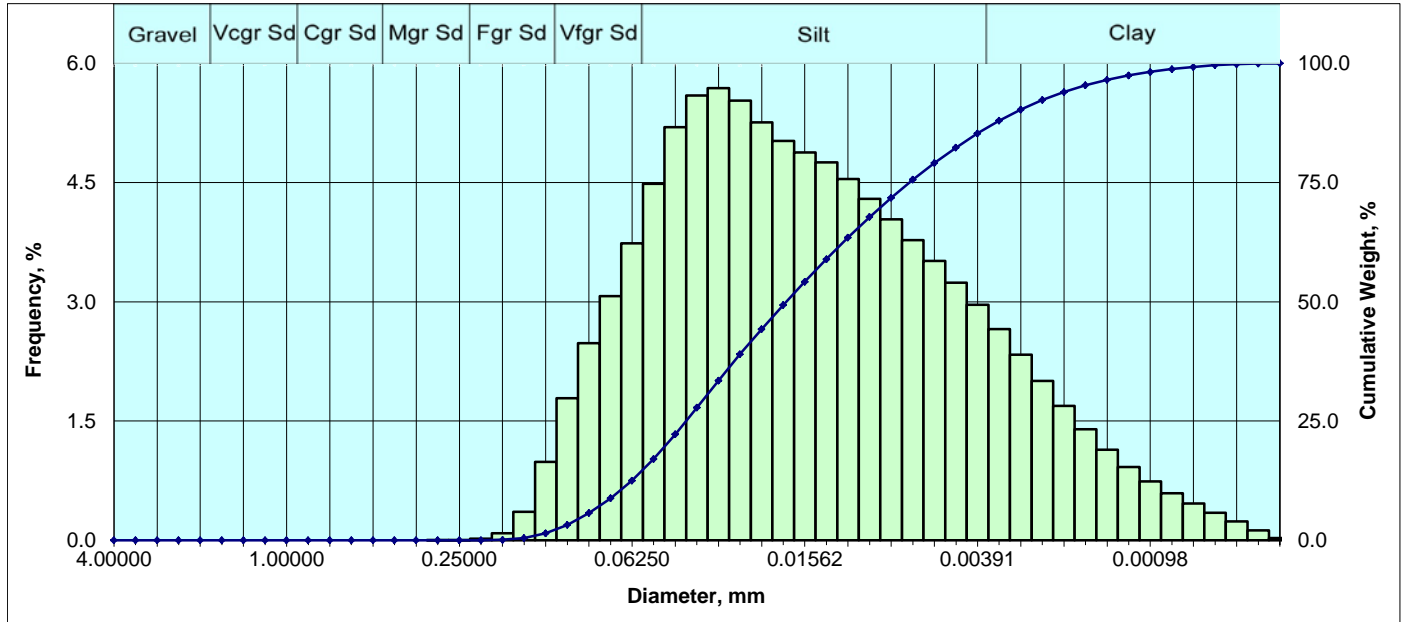


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	2.219	2.22
	14	0.055678	1.41421	-0.50	1.977	4.20
	16	0.046819	1.18921	-0.25	1.603	5.80
	18	0.039370	1.00000	0.00	1.164	6.96
Coarse Sand	20	0.033106	0.84090	0.25	0.737	7.70
	25	0.027839	0.70711	0.50	0.357	8.06
	30	0.023410	0.59460	0.75	0.070	8.13
	35	0.019685	0.50000	1.00	0.025	8.15
Medium Sand	40	0.016553	0.42045	1.25	0.236	8.39
	45	0.013919	0.35355	1.50	0.603	8.99
	50	0.011705	0.29730	1.75	0.844	9.84
	60	0.009843	0.25000	2.00	1.016	10.85
Fine Sand	70	0.008277	0.21022	2.25	1.352	12.20
	80	0.006960	0.17678	2.50	2.143	14.35
	100	0.005852	0.14865	2.75	3.581	17.93
	120	0.004921	0.12500	3.00	4.978	22.91
V. Fine Sand	140	0.004138	0.10511	3.25	5.666	28.57
	170	0.003480	0.08839	3.50	5.641	34.21
	200	0.002926	0.07433	3.75	5.349	39.56
	230	0.002461	0.06250	4.00	5.090	44.65
Silt	270	0.002069	0.05256	4.25	4.872	49.52
	325	0.001740	0.04419	4.50	4.659	54.18
	400	0.001463	0.03716	4.75	4.440	58.62
	450	0.001230	0.03125	5.00	4.260	62.88
	500	0.001035	0.02628	5.25	4.075	66.96
	635	0.000870	0.02210	5.50	3.841	70.80
		0.000732	0.01858	5.75	3.574	74.37
		0.000615	0.01562	6.00	3.293	77.66
		0.000517	0.01314	6.25	2.997	80.66
		0.000435	0.01105	6.50	2.679	83.34
		0.000366	0.00929	6.75	2.379	85.72
		0.000308	0.00781	7.00	2.111	87.83
		0.000259	0.00657	7.25	1.873	89.71
	0.000217	0.00552	7.50	1.660	91.37	
	0.000183	0.00465	7.75	1.465	92.83	
	0.000154	0.00391	8.00	1.287	94.12	
Clay		0.000129	0.00328	8.25	1.119	95.24
		0.000109	0.00276	8.50	0.960	96.20
		0.000091	0.00232	8.75	0.811	97.01
		0.000077	0.00195	9.00	0.675	97.68
		0.000065	0.00164	9.25	0.553	98.24
		0.000054	0.00138	9.50	0.448	98.68
		0.000046	0.00116	9.75	0.359	99.04
		0.000038	0.00098	10.00	0.285	99.33
		0.000032	0.00082	10.25	0.226	99.55
		0.000027	0.00069	10.50	0.175	99.73
		0.000023	0.00058	10.75	0.129	99.86
		0.000019	0.00049	11.00	0.087	99.94
		0.000016	0.00041	11.25	0.045	99.99
	0.000015	0.00038	11.50	0.011	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0020	0.0020	0.0020	
(mm)	0.0517	0.0517	0.0517	
Mean	Silt sized			
(in)	0.0027	0.0016	0.0018	
(mm)	0.0678	0.0416	0.0447	
Sorting	V. Poor			
	2.555	1.977	2.288	
Skewness	Near symmetrical			
	0.891	-0.186	0.037	
Kurtosis	Lepokurtic			
	0.176	1.168	1.298	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	44.65	49.47	5.88	55.35
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0512	1.3014	-0.3801	
10	0.0114	0.2897	1.7875	
16	0.0064	0.1638	2.6101	
25	0.0046	0.1176	3.0874	
30	0.0040	0.1009	3.3093	
50	0.0020	0.0517	4.2737	
60	0.0014	0.0353	4.8262	
75	0.0007	0.0180	5.7945	
84	0.0004	0.0106	6.5650	
90	0.0003	0.0064	7.2914	
95	0.0001	0.0034	8.1933	



Sieve and Laser Particle Size Analysis

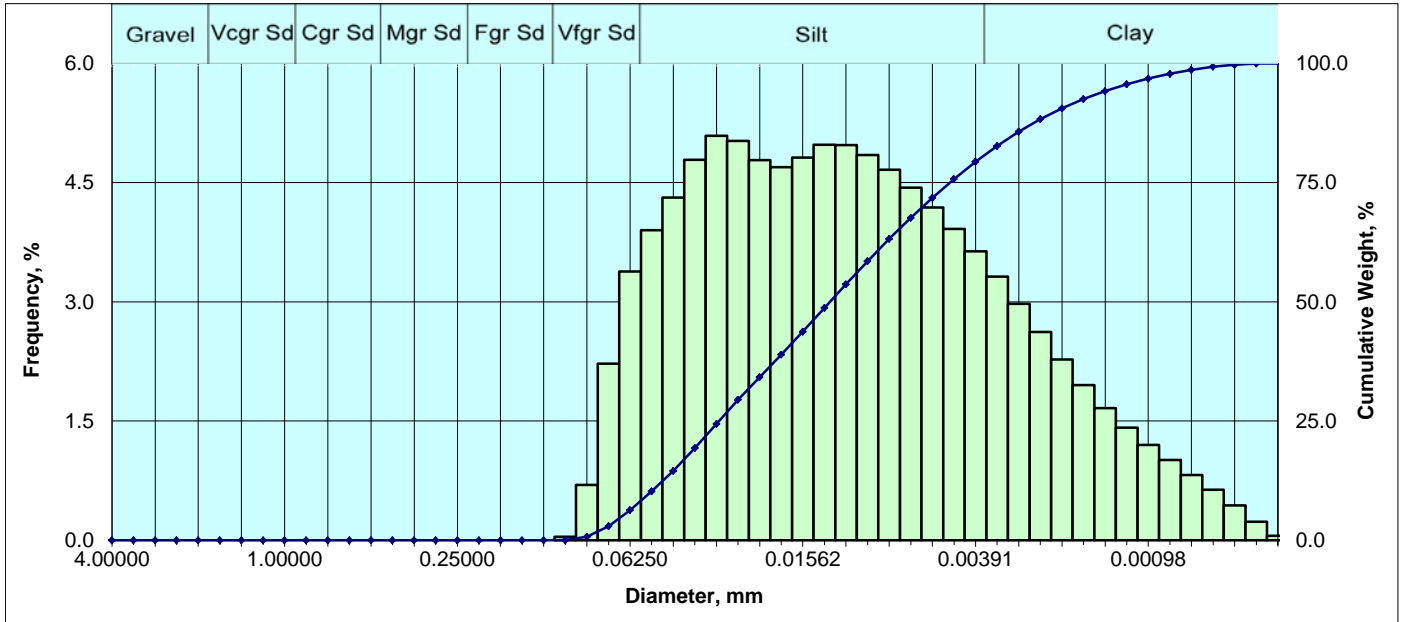


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.002	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.019	0.02
	80	0.006960	0.17678	2.50	0.088	0.11
	100	0.005852	0.14865	2.75	0.360	0.47
	120	0.004921	0.12500	3.00	0.988	1.46
V. Fine Sand	140	0.004138	0.10511	3.25	1.789	3.24
	170	0.003480	0.08839	3.50	2.481	5.73
	200	0.002926	0.07433	3.75	3.074	8.80
	230	0.002461	0.06250	4.00	3.736	12.54
	Silt	270	0.002069	0.05256	4.25	4.484
325		0.001740	0.04419	4.50	5.198	22.22
400		0.001463	0.03716	4.75	5.596	27.81
450		0.001230	0.03125	5.00	5.687	33.50
500		0.001035	0.02628	5.25	5.530	39.03
635		0.000870	0.02210	5.50	5.257	44.29
		0.000732	0.01858	5.75	5.024	49.31
		0.000615	0.01562	6.00	4.879	54.19
		0.000517	0.01314	6.25	4.755	58.95
		0.000435	0.01105	6.50	4.545	63.49
		0.000366	0.00929	6.75	4.294	67.79
		0.000308	0.00781	7.00	4.036	71.82
		0.000259	0.00657	7.25	3.776	75.60
	0.000217	0.00552	7.50	3.513	79.11	
	0.000183	0.00465	7.75	3.242	82.35	
	0.000154	0.00391	8.00	2.963	85.32	
Clay		0.000129	0.00328	8.25	2.656	87.97
		0.000109	0.00276	8.50	2.334	90.31
		0.000091	0.00232	8.75	2.007	92.31
		0.000077	0.00195	9.00	1.691	94.00
		0.000065	0.00164	9.25	1.398	95.40
		0.000054	0.00138	9.50	1.141	96.54
		0.000046	0.00116	9.75	0.922	97.46
		0.000038	0.00098	10.00	0.741	98.20
		0.000032	0.00082	10.25	0.593	98.80
		0.000027	0.00069	10.50	0.464	99.26
		0.000023	0.00058	10.75	0.347	99.61
		0.000019	0.00049	11.00	0.236	99.85
		0.000016	0.00041	11.25	0.124	99.97
		0.000015	0.00038	11.50	0.030	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0182	0.0182	0.0182	
Mean	Silt sized			
(in)	0.0009	0.0006	0.0006	
(mm)	0.0237	0.0152	0.0162	
Sorting	Poor			
	2.452	1.847	1.795	
Skewness	Finely skewed			
	0.914	0.279	0.158	
Kurtosis	Mesokurtic			
	0.251	0.557	0.911	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	12.54	72.78	14.68	87.46
Percentile [Weight. %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0037	0.0933	3.4223	
10	0.0028	0.0705	3.8257	
16	0.0022	0.0548	4.1892	
25	0.0016	0.0407	4.6189	
30	0.0014	0.0349	4.8411	
50	0.0007	0.0182	5.7827	
60	0.0005	0.0127	6.3042	
75	0.0003	0.0068	7.2074	
84	0.0002	0.0042	7.8836	
90	0.0001	0.0028	8.4647	
95	0.0001	0.0017	9.1737	



Sieve and Laser Particle Size Analysis

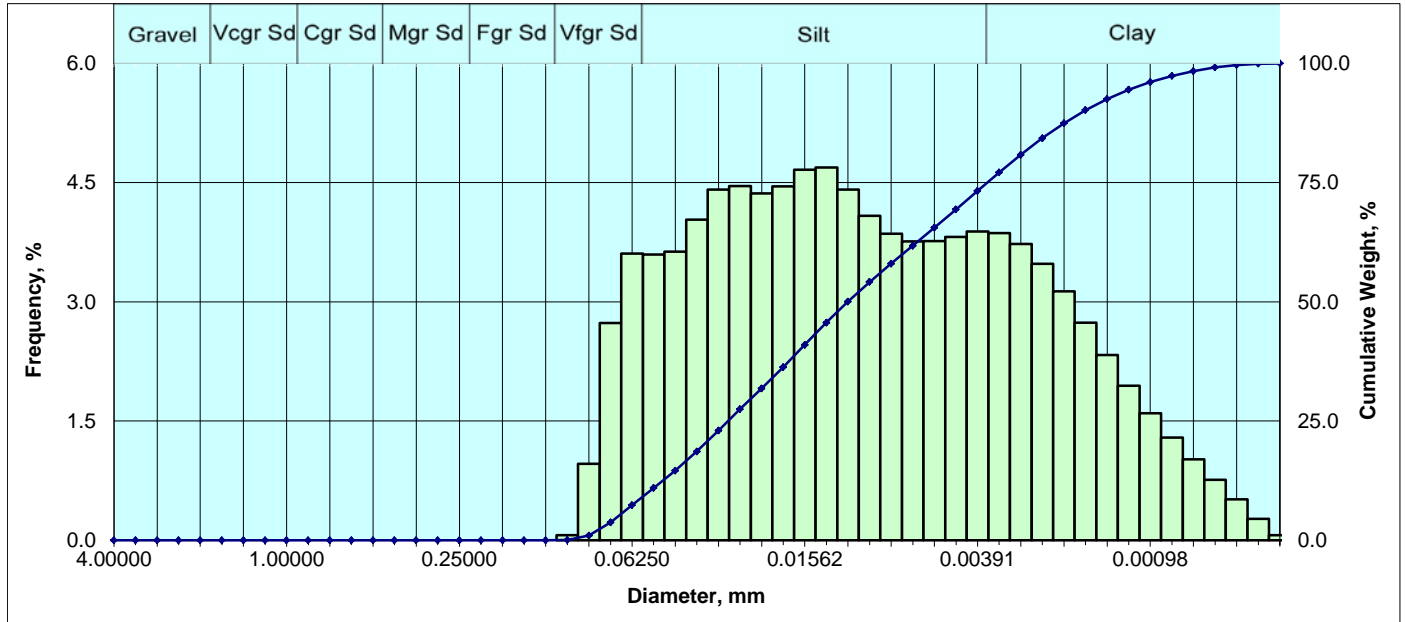


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.044	0.04
	170	0.003480	0.08839	3.50	0.695	0.74
	200	0.002926	0.07433	3.75	2.220	2.96
	230	0.002461	0.06250	4.00	3.381	6.34
	Silt	270	0.002069	0.05256	4.25	3.900
325		0.001740	0.04419	4.50	4.311	14.55
400		0.001463	0.03716	4.75	4.787	19.34
450		0.001230	0.03125	5.00	5.089	24.43
500		0.001035	0.02628	5.25	5.024	29.45
635		0.000870	0.02210	5.50	4.784	34.24
		0.000732	0.01858	5.75	4.692	38.93
		0.000615	0.01562	6.00	4.813	43.74
		0.000517	0.01314	6.25	4.975	48.72
		0.000435	0.01105	6.50	4.971	53.69
		0.000366	0.00929	6.75	4.849	58.54
Clay		0.000308	0.00781	7.00	4.662	63.20
		0.000259	0.00657	7.25	4.437	67.64
		0.000217	0.00552	7.50	4.188	71.82
		0.000183	0.00465	7.75	3.919	75.74
		0.000154	0.00391	8.00	3.636	79.38
		0.000129	0.00328	8.25	3.317	82.70
		0.000109	0.00276	8.50	2.974	85.67
		0.000091	0.00232	8.75	2.621	88.29
		0.000077	0.00195	9.00	2.275	90.57
		0.000065	0.00164	9.25	1.952	92.52
		0.000054	0.00138	9.50	1.665	94.18
		0.000046	0.00116	9.75	1.418	95.60
		0.000038	0.00098	10.00	1.201	96.80
		0.000032	0.00082	10.25	1.010	97.81
	0.000027	0.00069	10.50	0.823	98.63	
	0.000023	0.00058	10.75	0.634	99.27	
	0.000019	0.00049	11.00	0.441	99.71	
	0.000016	0.00041	11.25	0.234	99.94	
	0.000015	0.00038	11.50	0.057	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0126	0.0126	0.0126	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0005	
(mm)	0.0177	0.0113	0.0117	
Sorting	Poor			
	2.525	1.892	1.816	
Skewness	Finely skewed			
	0.964	0.241	0.120	
Kurtosis	Platykurtic			
	0.253	0.518	0.881	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	6.34	73.04	20.62	93.66
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0026	0.0672	3.8956	
10	0.0021	0.0532	4.2333	
16	0.0017	0.0421	4.5712	
25	0.0012	0.0307	5.0264	
30	0.0010	0.0258	5.2766	
50	0.0005	0.0126	6.3105	
60	0.0003	0.0088	6.8239	
75	0.0002	0.0048	7.6992	
84	0.0001	0.0031	8.3544	
90	0.0001	0.0020	8.9336	
95	0.0000	0.0013	9.6388	



Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.066	0.07
	170	0.003480	0.08839	3.50	0.962	1.03
	200	0.002926	0.07433	3.75	2.735	3.76
	230	0.002461	0.06250	4.00	3.609	7.37
	Silt	270	0.002069	0.05256	4.25	3.596
325		0.001740	0.04419	4.50	3.631	14.60
400		0.001463	0.03716	4.75	4.032	18.63
450		0.001230	0.03125	5.00	4.411	23.04
500		0.001035	0.02628	5.25	4.457	27.50
635		0.000870	0.02210	5.50	4.366	31.86
		0.000732	0.01858	5.75	4.452	36.32
		0.000615	0.01562	6.00	4.664	40.98
		0.000517	0.01314	6.25	4.691	45.67
		0.000435	0.01105	6.50	4.412	50.08
		0.000366	0.00929	6.75	4.082	54.17
		0.000308	0.00781	7.00	3.857	58.02
		0.000259	0.00657	7.25	3.761	61.78
	0.000217	0.00552	7.50	3.765	65.55	
	0.000183	0.00465	7.75	3.818	69.37	
	0.000154	0.00391	8.00	3.886	73.25	
Clay		0.000129	0.00328	8.25	3.866	77.12
		0.000109	0.00276	8.50	3.729	80.85
		0.000091	0.00232	8.75	3.477	84.32
		0.000077	0.00195	9.00	3.134	87.46
		0.000065	0.00164	9.25	2.736	90.19
		0.000054	0.00138	9.50	2.331	92.53
		0.000046	0.00116	9.75	1.946	94.47
		0.000038	0.00098	10.00	1.597	96.07
		0.000032	0.00082	10.25	1.294	97.36
		0.000027	0.00069	10.50	1.018	98.38
		0.000023	0.00058	10.75	0.763	99.14
		0.000019	0.00049	11.00	0.517	99.66
		0.000016	0.00041	11.25	0.272	99.93
		0.000015	0.00038	11.50	0.066	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0111	0.0111	0.0111	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0163	0.0099	0.0103	
Sorting	Poor			
	2.832	2.071	1.944	
Skewness	Near symmetrical			
	0.926	0.162	0.094	
Kurtosis	Platykurtic			
	0.237	0.448	0.818	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	7.37	65.88	26.75	92.63
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0028	0.0703	3.8309	
10	0.0022	0.0552	4.1783	
16	0.0016	0.0418	4.5820	
25	0.0011	0.0291	5.1045	
30	0.0009	0.0239	5.3879	
50	0.0004	0.0111	6.4948	
60	0.0003	0.0072	7.1261	
75	0.0001	0.0036	8.1077	
84	0.0001	0.0024	8.7247	
90	0.0001	0.0017	9.2307	
95	0.0000	0.0011	9.8279	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 1690006943-038

CL File Number: 1801096

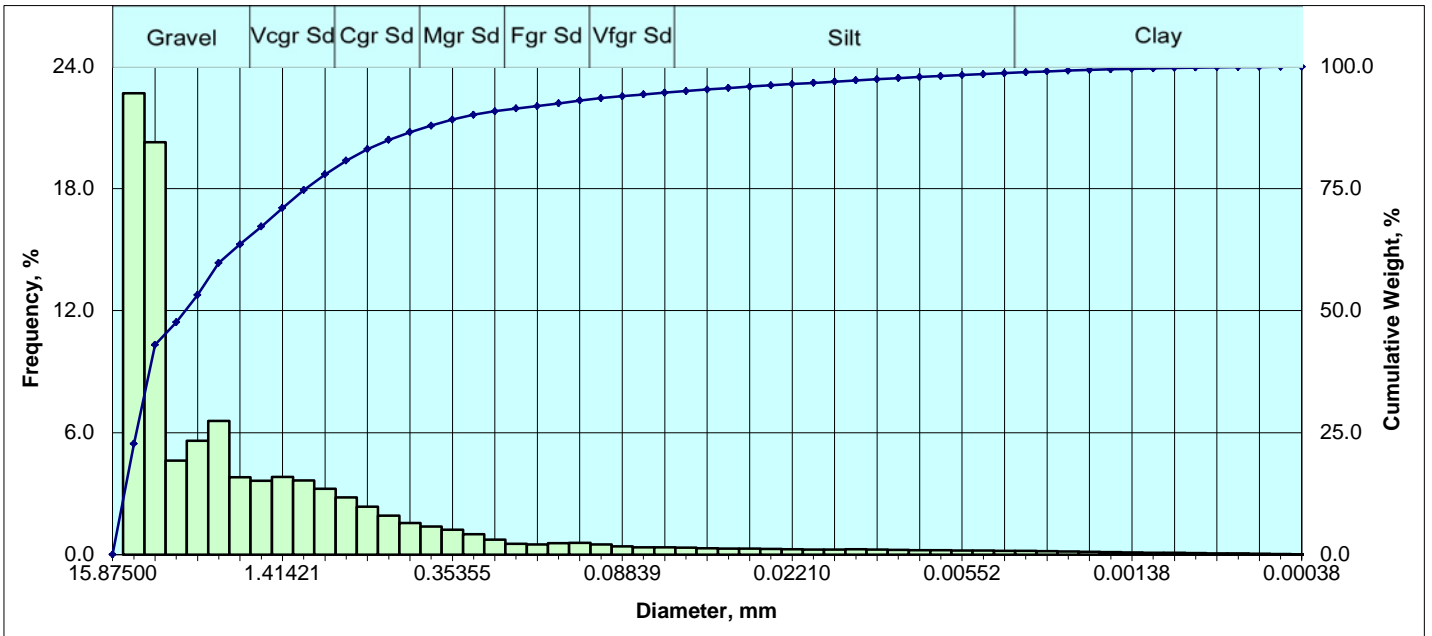
APPENDIX 6

Particle Distribution Plots

Boring ESB-18



Sieve and Laser Particle Size Analysis

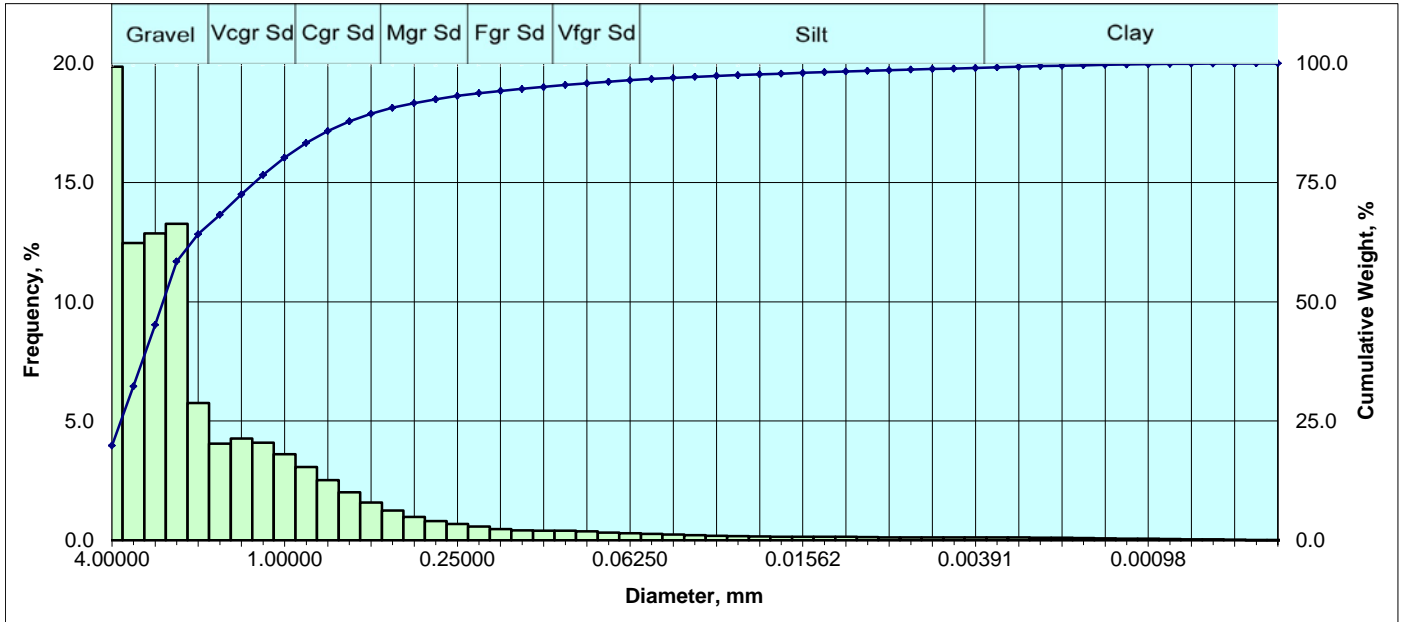


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	0.000	0.000
		0.375000	9.525000	-3.25	22.699	22.699
	5	0.157480	4.00000	-2.00	20.293	42.992
	6	0.132425	3.36359	-1.75	4.623	47.615
	7	0.111355	2.82843	-1.50	5.596	53.211
V Crse Sand	8	0.093638	2.37841	-1.25	6.569	59.780
	10	0.078740	2.00000	-1.00	3.808	63.588
	12	0.066212	1.68179	-0.75	3.637	67.225
	14	0.055678	1.41421	-0.50	3.824	71.048
Coarse Sand	16	0.046819	1.18921	-0.25	3.649	74.697
	18	0.039370	1.00000	0.00	3.236	77.933
	20	0.033106	0.84090	0.25	2.806	80.740
Medium Sand	25	0.027839	0.70711	0.50	2.360	83.100
	30	0.023410	0.59460	0.75	1.909	85.009
	35	0.019685	0.50000	1.00	1.560	86.569
	40	0.016553	0.42045	1.25	1.373	87.942
Fine Sand	45	0.013919	0.35355	1.50	1.221	89.163
	50	0.011705	0.29730	1.75	1.001	90.164
	60	0.009843	0.25000	2.00	0.731	90.895
	70	0.008277	0.21022	2.25	0.537	91.432
V. Fine Sand	80	0.006960	0.17678	2.50	0.497	91.929
	100	0.005852	0.14865	2.75	0.565	92.495
	120	0.004921	0.12500	3.00	0.577	93.072
	140	0.004138	0.10511	3.25	0.494	93.565
Silt	170	0.003480	0.08839	3.50	0.403	93.968
	200	0.002926	0.07433	3.75	0.364	94.332
	230	0.002461	0.06250	4.00	0.356	94.688
	270	0.002069	0.05256	4.25	0.340	95.027
	325	0.001740	0.04419	4.50	0.314	95.341
Clay	400	0.001463	0.03716	4.75	0.296	95.637
	450	0.001230	0.03125	5.00	0.287	95.923
	500	0.001035	0.02628	5.25	0.273	96.196
	635	0.000870	0.02210	5.50	0.255	96.452
		0.000732	0.01858	5.75	0.248	96.700
		0.000615	0.01562	6.00	0.253	96.953
		0.000517	0.01314	6.25	0.256	97.209
		0.000435	0.01105	6.50	0.246	97.455
		0.000366	0.00929	6.75	0.230	97.685
		0.000308	0.00781	7.00	0.217	97.902
		0.000259	0.00657	7.25	0.207	98.110
		0.000217	0.00552	7.50	0.201	98.310
		0.000183	0.00465	7.75	0.195	98.506
		0.000154	0.00391	8.00	0.191	98.696
		0.000129	0.00328	8.25	0.183	98.879
	0.000109	0.00276	8.50	0.171	99.051	
	0.000091	0.00232	8.75	0.157	99.207	
	0.000077	0.00195	9.00	0.140	99.347	
	0.000065	0.00164	9.25	0.123	99.470	
	0.000054	0.00138	9.50	0.108	99.578	
	0.000046	0.00116	9.75	0.095	99.673	
	0.000038	0.00098	10.00	0.084	99.757	
	0.000032	0.00082	10.25	0.073	99.830	
	0.000027	0.00069	10.50	0.062	99.892	
	0.000023	0.00058	10.75	0.049	99.941	
	0.000019	0.00049	11.00	0.035	99.976	
	0.000016	0.00041	11.25	0.019	99.995	
	0.000015	0.00038	11.50	0.005	100.000	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.1234	0.1234	0.1234	
(mm)	3.1355	3.1355	3.1355	
Mean	Granule sized			
(in)	0.1982	0.1075	0.1126	
(mm)	5.0350	2.7305	2.8593	
Sorting	V. Poor			
	2.756	2.062	2.256	
Skewness	Finely skewed			
	1.030	0.890	0.275	
Kurtosis	Lepokurtic			
	0.303	0.961	1.133	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
63.59	31.10	4.01	1.30	5.31
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.5699	14.4762	-3.8556	
10	0.5149	13.0775	-3.7090	
16	0.4488	11.3990	-3.5108	
25	0.3503	8.8985	-3.1536	
30	0.2967	7.5371	-2.9140	
50	0.1234	3.1355	-1.6487	
60	0.0928	2.3566	-1.2367	
75	0.0461	1.1715	-0.2283	
84	0.0258	0.6541	0.6125	
90	0.0121	0.3065	1.7059	
95	0.0021	0.0534	4.2284	



Sieve and Laser Particle Size Analysis

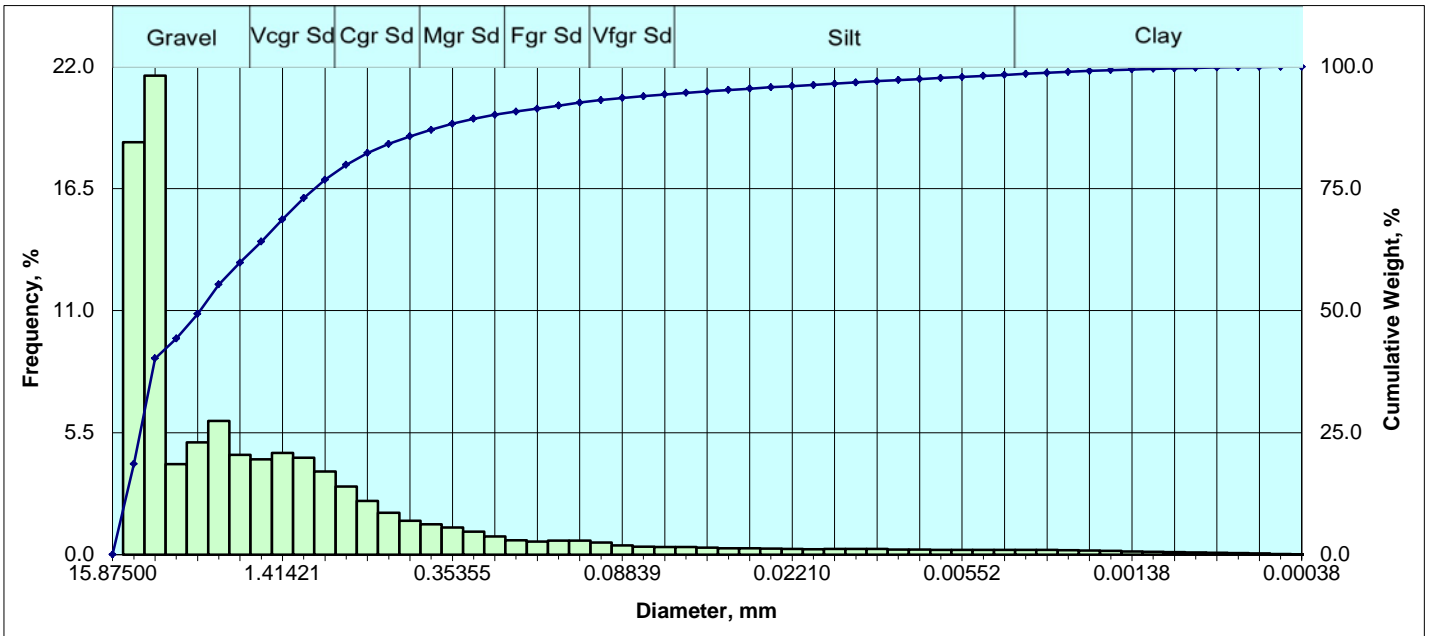


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	19.862	19.86
	6	0.132425	3.36359	-1.75	12.463	32.32
	7	0.111355	2.82843	-1.50	12.867	45.19
	8	0.093638	2.37841	-1.25	13.271	58.46
V Crse Sand	10	0.078740	2.00000	-1.00	5.752	64.22
	12	0.066212	1.68179	-0.75	4.049	68.26
	14	0.055678	1.41421	-0.50	4.268	72.53
	16	0.046819	1.18921	-0.25	4.088	76.62
Coarse Sand	18	0.039370	1.00000	0.00	3.617	80.24
	20	0.033106	0.84090	0.25	3.079	83.32
	25	0.027839	0.70711	0.50	2.527	85.84
	30	0.023410	0.59460	0.75	2.015	87.86
Medium Sand	35	0.019685	0.50000	1.00	1.587	89.44
	40	0.016553	0.42045	1.25	1.251	90.70
	45	0.013919	0.35355	1.50	0.983	91.68
	50	0.011705	0.29730	1.75	0.802	92.48
Fine Sand	60	0.009843	0.25000	2.00	0.687	93.17
	70	0.008277	0.21022	2.25	0.583	93.75
	80	0.006960	0.17678	2.50	0.475	94.23
	100	0.005852	0.14865	2.75	0.414	94.64
V. Fine Sand	120	0.004921	0.12500	3.00	0.409	95.05
	140	0.004138	0.10511	3.25	0.405	95.45
	170	0.003480	0.08839	3.50	0.372	95.83
	200	0.002926	0.07433	3.75	0.329	96.15
Silt	230	0.002461	0.06250	4.00	0.296	96.45
	270	0.002069	0.05256	4.25	0.271	96.72
	325	0.001740	0.04419	4.50	0.245	96.97
	400	0.001463	0.03716	4.75	0.218	97.18
	450	0.001230	0.03125	5.00	0.194	97.38
	500	0.001035	0.02628	5.25	0.173	97.55
	635	0.000870	0.02210	5.50	0.156	97.71
		0.000732	0.01858	5.75	0.147	97.86
		0.000615	0.01562	6.00	0.148	98.00
		0.000517	0.01314	6.25	0.148	98.15
		0.000435	0.01105	6.50	0.142	98.29
Clay		0.000366	0.00929	6.75	0.134	98.43
		0.000308	0.00781	7.00	0.128	98.56
		0.000259	0.00657	7.25	0.125	98.68
		0.000217	0.00552	7.50	0.124	98.80
		0.000183	0.00465	7.75	0.123	98.93
		0.000154	0.00391	8.00	0.124	99.05
		0.000129	0.00328	8.25	0.122	99.17
		0.000109	0.00276	8.50	0.118	99.29
		0.000091	0.00232	8.75	0.111	99.40
		0.000077	0.00195	9.00	0.103	99.51
		0.000065	0.00164	9.25	0.093	99.60
		0.000054	0.00138	9.50	0.083	99.68
		0.000046	0.00116	9.75	0.074	99.76
		0.000038	0.00098	10.00	0.065	99.82
		0.000032	0.00082	10.25	0.056	99.88
	0.000027	0.00069	10.50	0.046	99.92	
	0.000023	0.00058	10.75	0.036	99.96	
	0.000019	0.00049	11.00	0.025	99.98	
	0.000016	0.00041	11.25	0.013	100.00	
	0.000015	0.00038	11.50	0.003	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.1049	0.1049	0.1049	
(mm)	2.6654	2.6654	2.6654	
Mean	Granule sized			
(in)	0.0987	0.0796	0.0872	
(mm)	2.5080	2.0207	2.2161	
Sorting	Poor			
	1.710	1.328	1.572	
Skewness	Strongly fine skewed			
	0.820	1.044	0.382	
Kurtosis	Very leptokurtic			
	0.196	1.255	1.587	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
64.22	32.24	2.60	0.95	3.55
Percentile [Weight. %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3202	8.1342	-3.0240	
10	0.2655	6.7433	-2.7535	
16	0.1998	5.0743	-2.3432	
25	0.1472	3.7376	-1.9021	
30	0.1371	3.4823	-1.8000	
50	0.1049	2.6654	-1.4143	
60	0.0897	2.2773	-1.1873	
75	0.0503	1.2784	-0.3543	
84	0.0317	0.8047	0.3135	
90	0.0183	0.4647	1.1056	
95	0.0050	0.1278	2.9678	



Sieve and Laser Particle Size Analysis

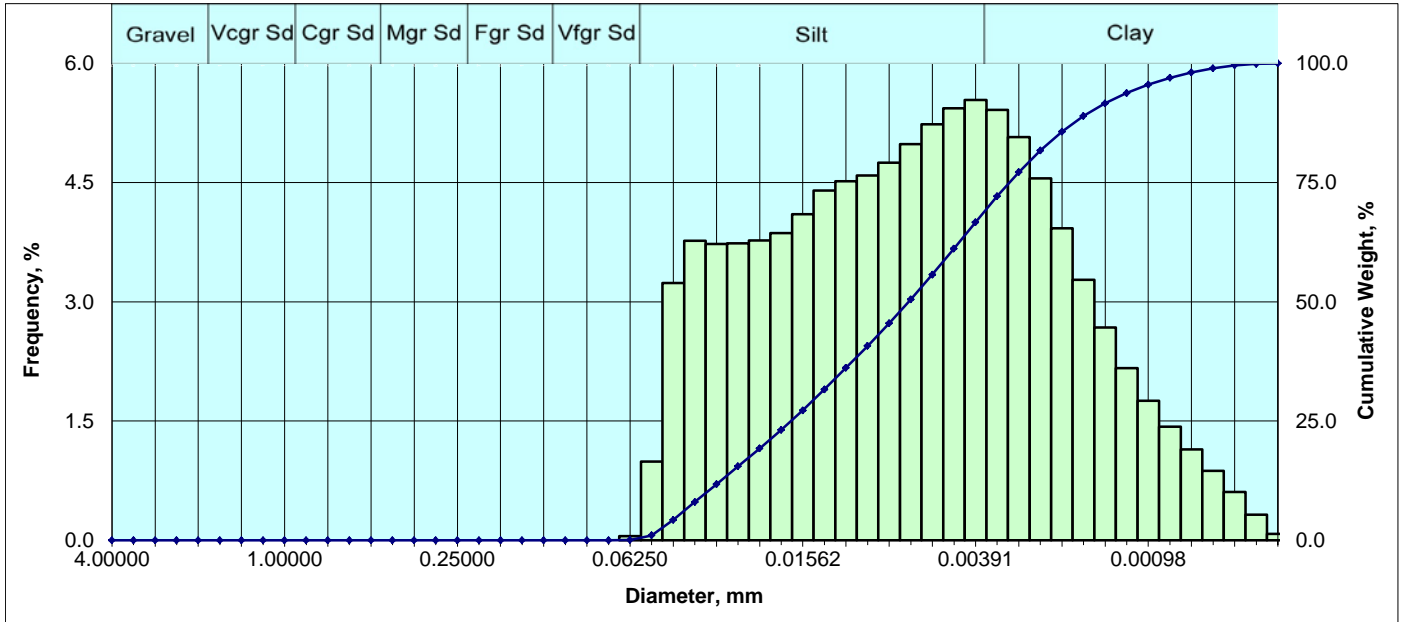


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule		0.625000	15.87500	-3.99	0.000	0.000
		0.375000	9.525000	-3.25	18.595	18.595
	5	0.157480	4.00000	-2.00	21.598	40.193
	6	0.132425	3.36359	-1.75	4.074	44.267
	7	0.111355	2.82843	-1.50	5.054	49.321
V Crse Sand	8	0.093638	2.37841	-1.25	6.033	55.354
	10	0.078740	2.00000	-1.00	4.492	59.846
	12	0.066212	1.68179	-0.75	4.295	64.141
	14	0.055678	1.41421	-0.50	4.578	68.719
Coarse Sand	16	0.046819	1.18921	-0.25	4.364	73.082
	18	0.039370	1.00000	0.00	3.751	76.833
	20	0.033106	0.84090	0.25	3.067	79.900
Medium Sand	25	0.027839	0.70711	0.50	2.420	82.320
	30	0.023410	0.59460	0.75	1.879	84.199
	35	0.019685	0.50000	1.00	1.530	85.729
	40	0.016553	0.42045	1.25	1.359	87.088
Fine Sand	45	0.013919	0.35355	1.50	1.220	88.308
	50	0.011705	0.29730	1.75	1.037	89.345
	60	0.009843	0.25000	2.00	0.820	90.165
	70	0.008277	0.21022	2.25	0.646	90.811
V. Fine Sand	80	0.006960	0.17678	2.50	0.582	91.393
	100	0.005852	0.14865	2.75	0.623	92.017
	120	0.004921	0.12500	3.00	0.631	92.648
	140	0.004138	0.10511	3.25	0.537	93.185
Silt	170	0.003480	0.08839	3.50	0.419	93.604
	200	0.002926	0.07433	3.75	0.359	93.962
	230	0.002461	0.06250	4.00	0.348	94.310
	270	0.002069	0.05256	4.25	0.336	94.647
	325	0.001740	0.04419	4.50	0.309	94.956
	400	0.001463	0.03716	4.75	0.287	95.242
	450	0.001230	0.03125	5.00	0.277	95.520
	500	0.001035	0.02628	5.25	0.266	95.786
	635	0.000870	0.02210	5.50	0.249	96.034
		0.000732	0.01858	5.75	0.242	96.276
		0.000615	0.01562	6.00	0.250	96.527
		0.000517	0.01314	6.25	0.258	96.784
		0.000435	0.01105	6.50	0.248	97.032
	0.000366	0.00929	6.75	0.231	97.263	
	0.000308	0.00781	7.00	0.219	97.483	
	0.000259	0.00657	7.25	0.214	97.696	
	0.000217	0.00552	7.50	0.213	97.909	
	0.000183	0.00465	7.75	0.214	98.123	
	0.000154	0.00391	8.00	0.218	98.341	
Clay		0.000129	0.00328	8.25	0.217	98.557
		0.000109	0.00276	8.50	0.210	98.767
		0.000091	0.00232	8.75	0.197	98.964
		0.000077	0.00195	9.00	0.180	99.144
		0.000065	0.00164	9.25	0.161	99.305
		0.000054	0.00138	9.50	0.142	99.447
		0.000046	0.00116	9.75	0.126	99.573
		0.000038	0.00098	10.00	0.110	99.683
		0.000032	0.00082	10.25	0.096	99.779
		0.000027	0.00069	10.50	0.081	99.860
		0.000023	0.00058	10.75	0.064	99.924
		0.000019	0.00049	11.00	0.045	99.970
		0.000016	0.00041	11.25	0.024	99.994
		0.000015	0.00038	11.50	0.006	100.000

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Granule sized			
(in)	0.1094	0.1094	0.1094	
(mm)	2.7778	2.7778	2.7778	
Mean	Granule sized			
(in)	0.1768	0.0989	0.1023	
(mm)	4.4895	2.5128	2.5982	
Sorting	V. Poor			
	2.687	2.051	2.292	
Skewness	Finely skewed			
	1.057	0.892	0.254	
Kurtosis	Lepokurtic			
	0.278	1.038	1.202	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
59.85	34.46	4.03	1.66	5.69
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.5578	14.1675	-3.8245	
10	0.4906	12.4601	-3.6392	
16	0.4099	10.4111	-3.3801	
25	0.3105	7.8865	-2.9794	
30	0.2601	6.6075	-2.7241	
50	0.1094	2.7778	-1.4739	
60	0.0783	1.9886	-0.9917	
75	0.0430	1.0925	-0.1276	
84	0.0239	0.6065	0.7214	
90	0.0102	0.2595	1.9461	
95	0.0017	0.0431	4.5360	



Sieve and Laser Particle Size Analysis

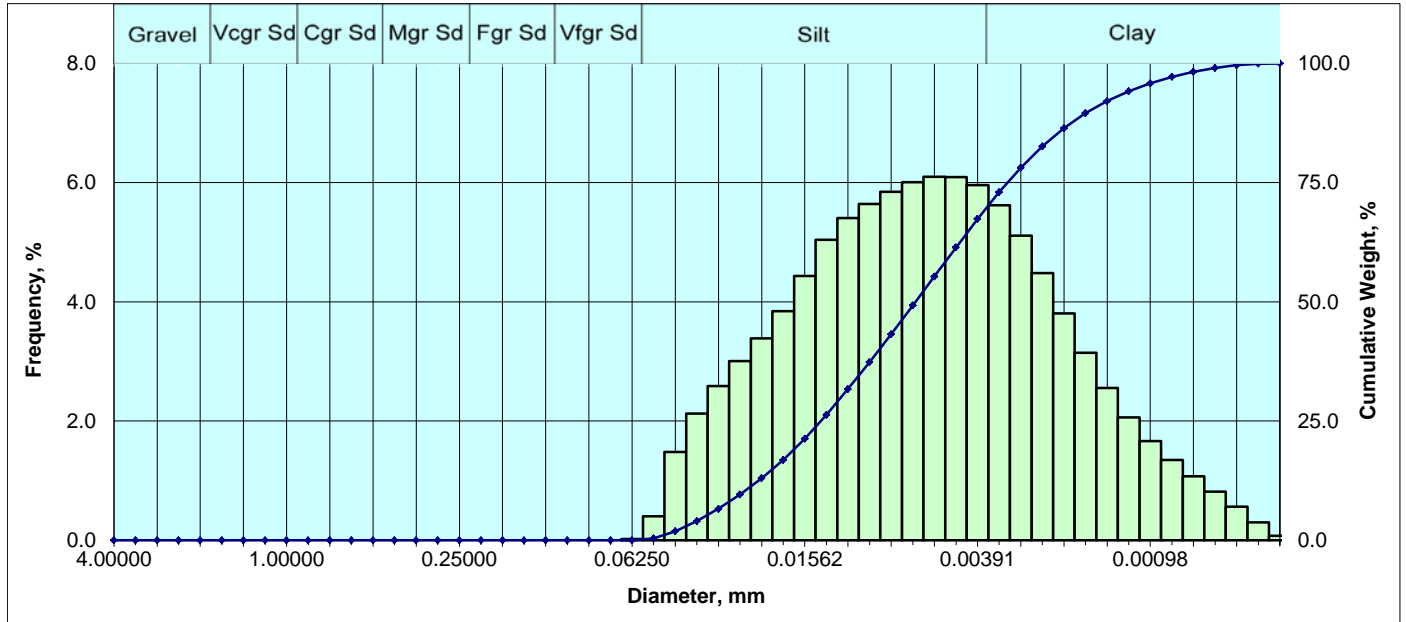


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.052	0.05
	Silt	270	0.002069	0.05256	4.25	0.992
325		0.001740	0.04419	4.50	3.237	4.28
400		0.001463	0.03716	4.75	3.767	8.05
450		0.001230	0.03125	5.00	3.728	11.78
500		0.001035	0.02628	5.25	3.736	15.51
635		0.000870	0.02210	5.50	3.773	19.29
		0.000732	0.01858	5.75	3.866	23.15
		0.000615	0.01562	6.00	4.104	27.26
		0.000517	0.01314	6.25	4.399	31.65
		0.000435	0.01105	6.50	4.518	36.17
		0.000366	0.00929	6.75	4.589	40.76
		0.000308	0.00781	7.00	4.750	45.51
		0.000259	0.00657	7.25	4.984	50.50
	0.000217	0.00552	7.50	5.233	55.73	
	0.000183	0.00465	7.75	5.435	61.16	
	0.000154	0.00391	8.00	5.539	66.70	
Clay		0.000129	0.00328	8.25	5.415	72.12
		0.000109	0.00276	8.50	5.073	77.19
		0.000091	0.00232	8.75	4.552	81.74
		0.000077	0.00195	9.00	3.926	85.67
		0.000065	0.00164	9.25	3.277	88.95
		0.000054	0.00138	9.50	2.679	91.62
		0.000046	0.00116	9.75	2.168	93.79
		0.000038	0.00098	10.00	1.754	95.55
		0.000032	0.00082	10.25	1.427	96.97
		0.000027	0.00069	10.50	1.142	98.12
		0.000023	0.00058	10.75	0.874	98.99
		0.000019	0.00049	11.00	0.607	99.60
		0.000016	0.00041	11.25	0.324	99.92
		0.000015	0.00038	11.50	0.079	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0067	0.0067	0.0067	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0101	0.0074	0.0071	
Sorting	Poor			
	2.403	1.804	1.716	
Skewness	Near symmetrical			
	1.073	0.004	-0.037	
Kurtosis	Platykurtic			
	0.219	0.489	0.871	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.05	66.65	33.30	99.95
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0017	0.0429	4.5445	
10	0.0013	0.0341	4.8755	
16	0.0010	0.0257	5.2800	
25	0.0007	0.0172	5.8573	
30	0.0006	0.0141	6.1508	
50	0.0003	0.0067	7.2231	
60	0.0002	0.0048	7.6927	
75	0.0001	0.0030	8.3867	
84	0.0001	0.0021	8.8884	
90	0.0001	0.0015	9.3432	
95	0.0000	0.0010	9.9173	



Sieve and Laser Particle Size Analysis

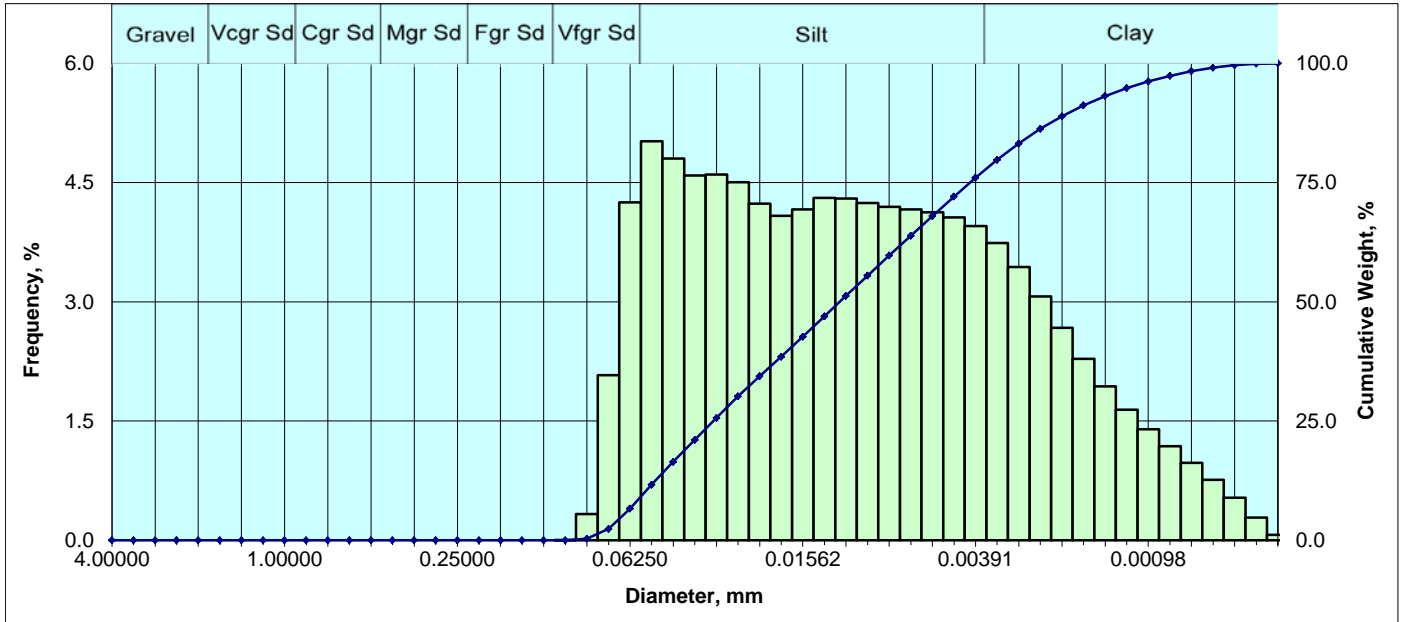


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.020	0.02
	Silt	270	0.002069	0.05256	4.25	0.401
325		0.001740	0.04419	4.50	1.484	1.91
400		0.001463	0.03716	4.75	2.128	4.03
450		0.001230	0.03125	5.00	2.587	6.62
500		0.001035	0.02628	5.25	3.006	9.63
635		0.000870	0.02210	5.50	3.387	13.01
		0.000732	0.01858	5.75	3.844	16.86
		0.000615	0.01562	6.00	4.435	21.29
		0.000517	0.01314	6.25	5.040	26.33
		0.000435	0.01105	6.50	5.407	31.74
		0.000366	0.00929	6.75	5.643	37.38
		0.000308	0.00781	7.00	5.845	43.23
		0.000259	0.00657	7.25	6.006	49.23
		0.000217	0.00552	7.50	6.100	55.33
		0.000183	0.00465	7.75	6.091	61.42
	0.000154	0.00391	8.00	5.957	67.38	
Clay		0.000129	0.00328	8.25	5.618	73.00
		0.000109	0.00276	8.50	5.110	78.11
		0.000091	0.00232	8.75	4.482	82.59
		0.000077	0.00195	9.00	3.805	86.40
		0.000065	0.00164	9.25	3.144	89.54
		0.000054	0.00138	9.50	2.555	92.10
		0.000046	0.00116	9.75	2.061	94.16
		0.000038	0.00098	10.00	1.663	95.82
		0.000032	0.00082	10.25	1.348	97.17
		0.000027	0.00069	10.50	1.074	98.24
		0.000023	0.00058	10.75	0.818	99.06
		0.000019	0.00049	11.00	0.566	99.63
		0.000016	0.00041	11.25	0.301	99.93
		0.000015	0.00038	11.50	0.074	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0064	0.0064	0.0064	
Mean	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0084	0.0065	0.0065	
Sorting	Poor			
	2.116	1.574	1.549	
Skewness	Near symmetrical			
	1.013	0.048	0.010	
Kurtosis	Mesokurtic			
	0.221	0.599	0.954	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.02	67.36	32.62	99.98
Percentile [Weight, %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0014	0.0350	4.8384	
10	0.0010	0.0258	5.2756	
16	0.0008	0.0194	5.6904	
25	0.0005	0.0138	6.1796	
30	0.0005	0.0117	6.4148	
50	0.0003	0.0064	7.2791	
60	0.0002	0.0049	7.6876	
75	0.0001	0.0031	8.3428	
84	0.0001	0.0022	8.8376	
90	0.0001	0.0016	9.2919	
95	0.0000	0.0011	9.8715	



Sieve and Laser Particle Size Analysis

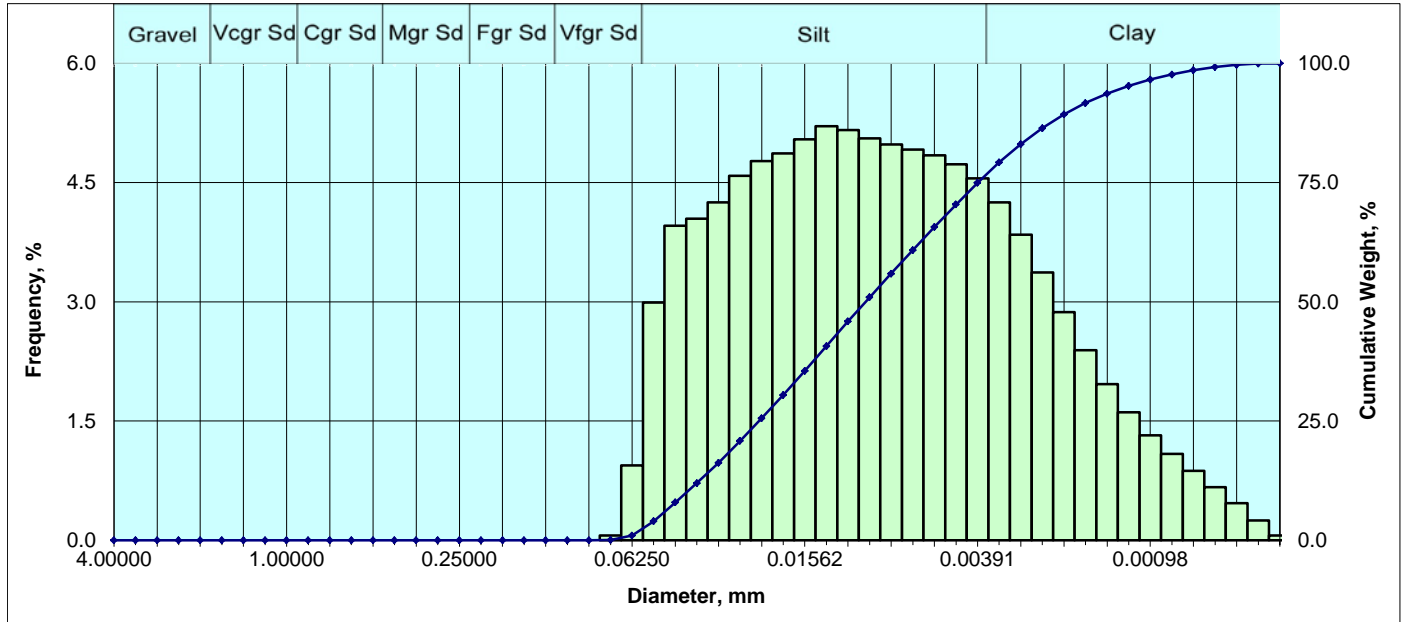


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
Medium Sand	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
Fine Sand	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.005	0.01
V. Fine Sand	170	0.003480	0.08839	3.50	0.331	0.34
	200	0.002926	0.07433	3.75	2.076	2.41
	230	0.002461	0.06250	4.00	4.252	6.66
	270	0.002069	0.05256	4.25	5.018	11.68
	325	0.001740	0.04419	4.50	4.801	16.48
	400	0.001463	0.03716	4.75	4.588	21.07
	450	0.001230	0.03125	5.00	4.600	25.67
Silt	500	0.001035	0.02628	5.25	4.503	30.18
	635	0.000870	0.02210	5.50	4.236	34.41
		0.000732	0.01858	5.75	4.083	38.49
		0.000615	0.01562	6.00	4.165	42.66
		0.000517	0.01314	6.25	4.307	46.97
		0.000435	0.01105	6.50	4.301	51.27
		0.000366	0.00929	6.75	4.242	55.51
		0.000308	0.00781	7.00	4.196	59.71
		0.000259	0.00657	7.25	4.162	63.87
		0.000217	0.00552	7.50	4.127	67.99
		0.000183	0.00465	7.75	4.062	72.06
		0.000154	0.00391	8.00	3.953	76.01
		0.000129	0.00328	8.25	3.742	79.75
		0.000109	0.00276	8.50	3.439	83.19
	Clay		0.000091	0.00232	8.75	3.069
		0.000077	0.00195	9.00	2.672	88.93
		0.000065	0.00164	9.25	2.283	91.21
		0.000054	0.00138	9.50	1.937	93.15
		0.000046	0.00116	9.75	1.644	94.80
		0.000038	0.00098	10.00	1.396	96.19
		0.000032	0.00082	10.25	1.183	97.37
		0.000027	0.00069	10.50	0.975	98.35
		0.000023	0.00058	10.75	0.761	99.11
		0.000019	0.00049	11.00	0.534	99.64
		0.000016	0.00041	11.25	0.286	99.93
		0.000015	0.00038	11.50	0.070	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0117	0.0117	0.0117	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0004	
(mm)	0.0181	0.0109	0.0112	
Sorting	Poor			
	2.800	2.045	1.914	
Skewness	Near symmetrical			
	0.983	0.205	0.095	
Kurtosis	Platykurtic			
	0.259	0.440	0.812	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	6.66	69.34	23.99	93.34
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0026	0.0671	3.8969	
10	0.0022	0.0559	4.1612	
16	0.0018	0.0450	4.4727	
25	0.0013	0.0321	4.9607	
30	0.0010	0.0265	5.2394	
50	0.0005	0.0117	6.4217	
60	0.0003	0.0077	7.0164	
75	0.0002	0.0041	7.9319	
84	0.0001	0.0026	8.5619	
90	0.0001	0.0018	9.1117	
95	0.0000	0.0011	9.7841	



Sieve and Laser Particle Size Analysis

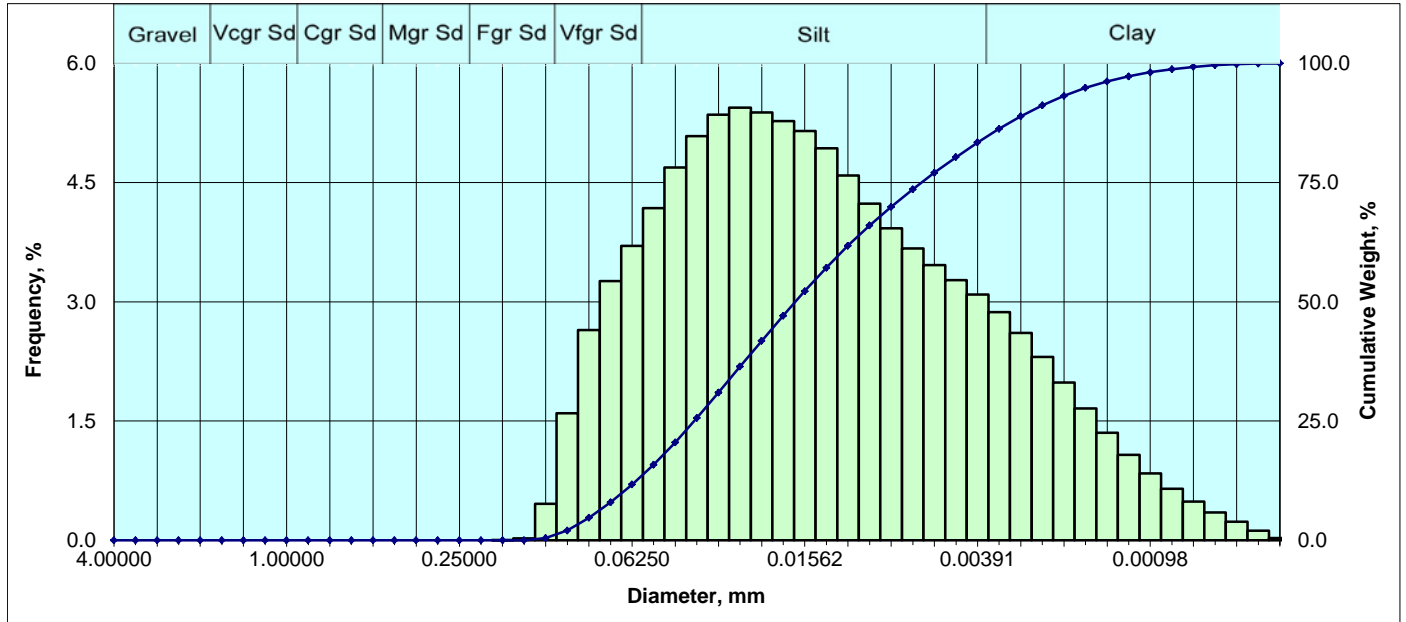


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.059	0.06
	230	0.002461	0.06250	4.00	0.944	1.00
	Silt	270	0.002069	0.05256	4.25	2.992
325		0.001740	0.04419	4.50	3.958	7.95
400		0.001463	0.03716	4.75	4.047	12.00
450		0.001230	0.03125	5.00	4.251	16.25
500		0.001035	0.02628	5.25	4.585	20.84
635		0.000870	0.02210	5.50	4.771	25.61
		0.000732	0.01858	5.75	4.866	30.47
		0.000615	0.01562	6.00	5.046	35.52
		0.000517	0.01314	6.25	5.210	40.73
		0.000435	0.01105	6.50	5.162	45.89
		0.000366	0.00929	6.75	5.056	50.95
		0.000308	0.00781	7.00	4.980	55.93
		0.000259	0.00657	7.25	4.915	60.84
	0.000217	0.00552	7.50	4.844	65.69	
	0.000183	0.00465	7.75	4.731	70.42	
	0.000154	0.00391	8.00	4.553	74.97	
Clay		0.000129	0.00328	8.25	4.252	79.22
		0.000109	0.00276	8.50	3.846	83.07
		0.000091	0.00232	8.75	3.370	86.44
		0.000077	0.00195	9.00	2.871	89.31
		0.000065	0.00164	9.25	2.390	91.70
		0.000054	0.00138	9.50	1.966	93.66
		0.000046	0.00116	9.75	1.611	95.27
		0.000038	0.00098	10.00	1.321	96.60
		0.000032	0.00082	10.25	1.086	97.68
		0.000027	0.00069	10.50	0.874	98.56
		0.000023	0.00058	10.75	0.671	99.23
		0.000019	0.00049	11.00	0.465	99.69
		0.000016	0.00041	11.25	0.248	99.94
		0.000015	0.00038	11.50	0.061	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0096	0.0096	0.0096	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0133	0.0091	0.0093	
Sorting	Poor			
	2.408	1.791	1.713	
Skewness	Near symmetrical			
	0.977	0.171	0.078	
Kurtosis	Platykurtic			
	0.241	0.506	0.872	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	1.00	73.97	25.03	99.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0020	0.0504	4.3095	
10	0.0016	0.0406	4.6210	
16	0.0012	0.0316	4.9840	
25	0.0009	0.0226	5.4657	
30	0.0007	0.0189	5.7237	
50	0.0004	0.0096	6.6998	
60	0.0003	0.0068	7.2040	
75	0.0002	0.0039	8.0016	
84	0.0001	0.0026	8.5650	
90	0.0001	0.0019	9.0681	
95	0.0000	0.0012	9.7042	



Sieve and Laser Particle Size Analysis

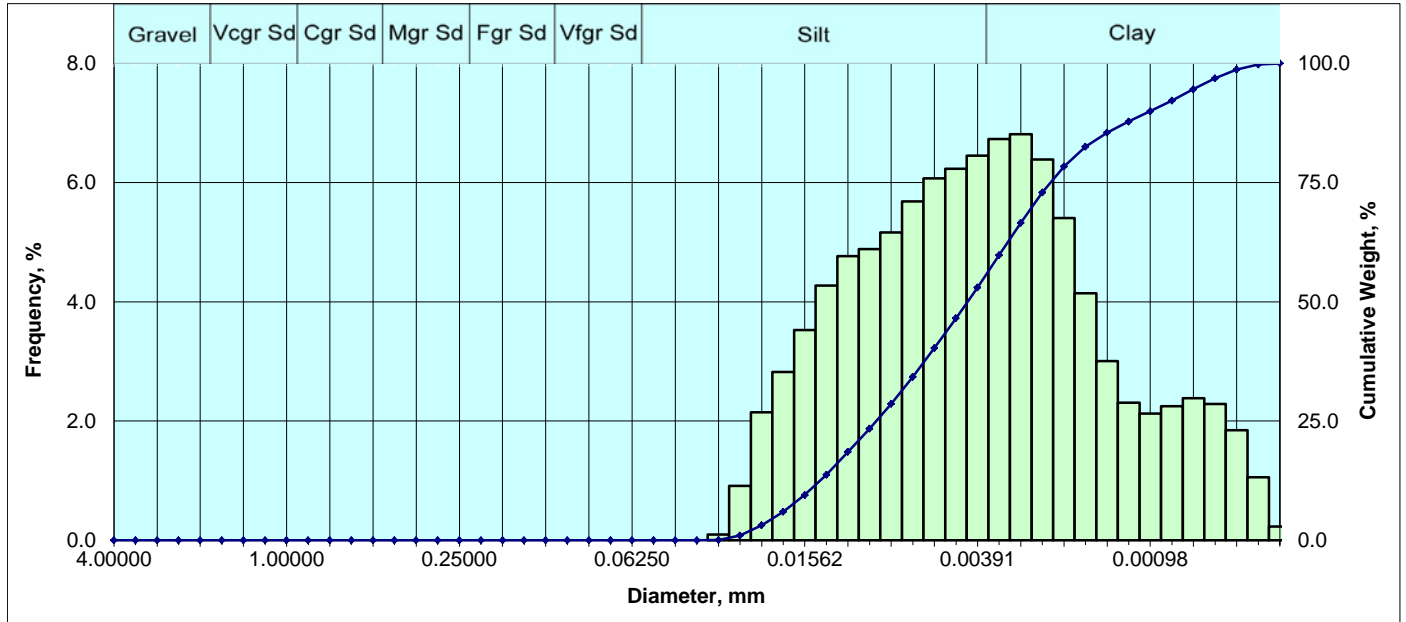


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.024	0.02
	120	0.004921	0.12500	3.00	0.459	0.48
V. Fine Sand	140	0.004138	0.10511	3.25	1.598	2.08
	170	0.003480	0.08839	3.50	2.646	4.73
	200	0.002926	0.07433	3.75	3.259	7.99
	230	0.002461	0.06250	4.00	3.703	11.69
	Silt	270	0.002069	0.05256	4.25	4.178
325		0.001740	0.04419	4.50	4.689	20.56
400		0.001463	0.03716	4.75	5.085	25.64
450		0.001230	0.03125	5.00	5.353	30.99
500		0.001035	0.02628	5.25	5.444	36.44
635		0.000870	0.02210	5.50	5.382	41.82
		0.000732	0.01858	5.75	5.275	47.10
		0.000615	0.01562	6.00	5.147	52.24
		0.000517	0.01314	6.25	4.933	57.18
		0.000435	0.01105	6.50	4.590	61.77
		0.000366	0.00929	6.75	4.233	66.00
		0.000308	0.00781	7.00	3.926	69.93
		0.000259	0.00657	7.25	3.673	73.60
		0.000217	0.00552	7.50	3.464	77.06
		0.000183	0.00465	7.75	3.274	80.34
	0.000154	0.00391	8.00	3.092	83.43	
Clay		0.000129	0.00328	8.25	2.871	86.30
		0.000109	0.00276	8.50	2.608	88.91
		0.000091	0.00232	8.75	2.308	91.22
		0.000077	0.00195	9.00	1.985	93.20
		0.000065	0.00164	9.25	1.660	94.86
		0.000054	0.00138	9.50	1.353	96.21
		0.000046	0.00116	9.75	1.076	97.29
		0.000038	0.00098	10.00	0.840	98.13
		0.000032	0.00082	10.25	0.648	98.78
		0.000027	0.00069	10.50	0.488	99.27
		0.000023	0.00058	10.75	0.352	99.62
		0.000019	0.00049	11.00	0.232	99.85
		0.000016	0.00041	11.25	0.120	99.97
		0.000015	0.00038	11.50	0.029	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0169	0.0169	0.0169	
Mean	Silt sized			
(in)	0.0009	0.0006	0.0006	
(mm)	0.0221	0.0141	0.0150	
Sorting	Poor			
	2.488	1.895	1.819	
Skewness	Finely skewed			
	0.904	0.270	0.159	
Kurtosis	Platykurtic			
	0.244	0.518	0.897	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	11.69	71.74	16.57	88.31
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0034	0.0872	3.5194	
10	0.0027	0.0679	3.8806	
16	0.0021	0.0523	4.2565	
25	0.0015	0.0380	4.7160	
30	0.0013	0.0323	4.9502	
50	0.0007	0.0169	5.8857	
60	0.0005	0.0119	6.3986	
75	0.0002	0.0061	7.3460	
84	0.0001	0.0038	8.0464	
90	0.0001	0.0026	8.6130	
95	0.0001	0.0016	9.2738	



Sieve and Laser Particle Size Analysis

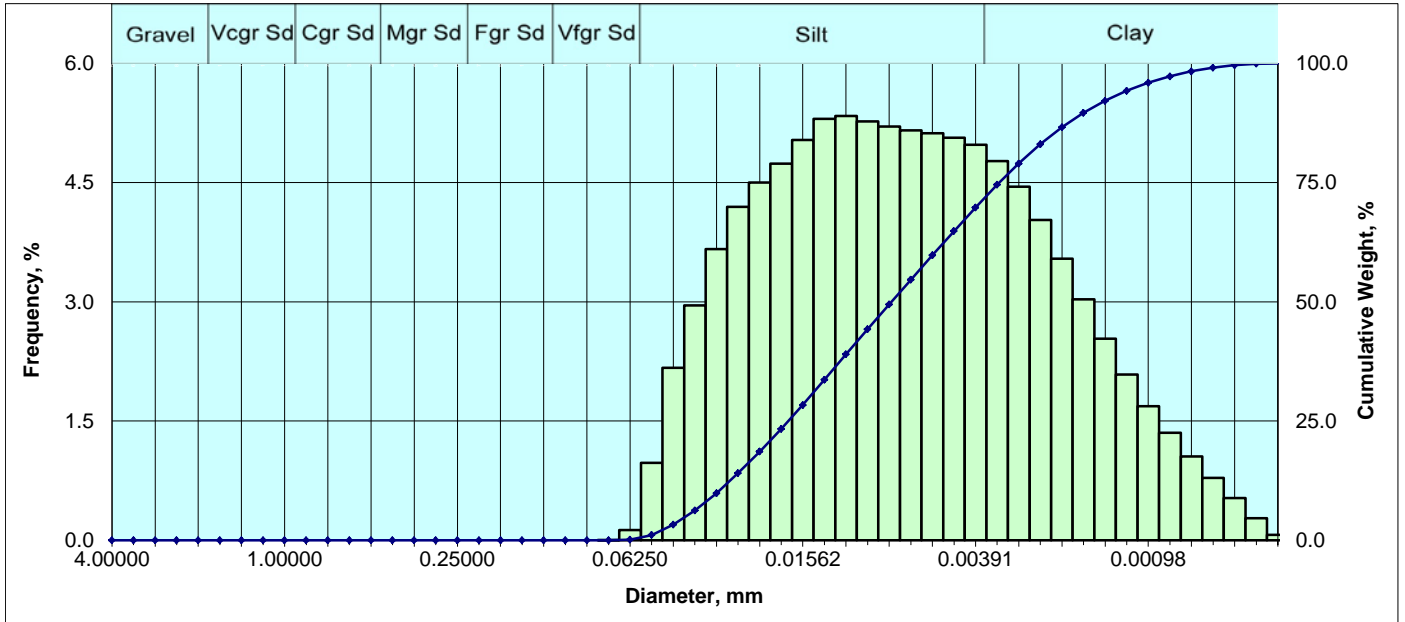


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
Medium Sand	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
Fine Sand	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
V. Fine Sand	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.000	0.00
Silt	400	0.001463	0.03716	4.75	0.000	0.00
	450	0.001230	0.03125	5.00	0.098	0.10
	500	0.001035	0.02628	5.25	0.913	1.01
	635	0.000870	0.02210	5.50	2.146	3.16
		0.000732	0.01858	5.75	2.822	5.98
		0.000615	0.01562	6.00	3.528	9.51
		0.000517	0.01314	6.25	4.271	13.78
		0.000435	0.01105	6.50	4.767	18.54
		0.000366	0.00929	6.75	4.884	23.43
		0.000308	0.00781	7.00	5.165	28.59
		0.000259	0.00657	7.25	5.686	34.28
		0.000217	0.00552	7.50	6.071	40.35
		0.000183	0.00465	7.75	6.229	46.58
	0.000154	0.00391	8.00	6.449	53.03	
Clay		0.000129	0.00328	8.25	6.732	59.76
		0.000109	0.00276	8.50	6.814	66.57
		0.000091	0.00232	8.75	6.386	72.96
		0.000077	0.00195	9.00	5.405	78.37
		0.000065	0.00164	9.25	4.142	82.51
		0.000054	0.00138	9.50	3.006	85.51
		0.000046	0.00116	9.75	2.308	87.82
		0.000038	0.00098	10.00	2.126	89.95
		0.000032	0.00082	10.25	2.247	92.19
		0.000027	0.00069	10.50	2.382	94.58
		0.000023	0.00058	10.75	2.289	96.86
		0.000019	0.00049	11.00	1.847	98.71
		0.000016	0.00041	11.25	1.055	99.77
		0.000015	0.00038	11.50	0.233	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0043	0.0043	0.0043	
Mean	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0055	0.0043	0.0043	
Sorting	Poor			
	2.012	1.504	1.492	
Skewness	Near symmetrical			
	1.033	0.149	0.042	
Kurtosis	Mesokurtic			
	0.232	0.624	0.992	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	53.03	46.97	100.00
Percentile [Weight. %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0008	0.0198	5.6583	
10	0.0006	0.0153	6.0268	
16	0.0005	0.0122	6.3612	
25	0.0003	0.0088	6.8216	
30	0.0003	0.0075	7.0580	
50	0.0002	0.0043	7.8772	
60	0.0001	0.0033	8.2581	
75	0.0001	0.0022	8.8393	
84	0.0001	0.0015	9.3688	
90	0.0000	0.0010	10.0055	
95	0.0000	0.0007	10.5431	



Sieve and Laser Particle Size Analysis

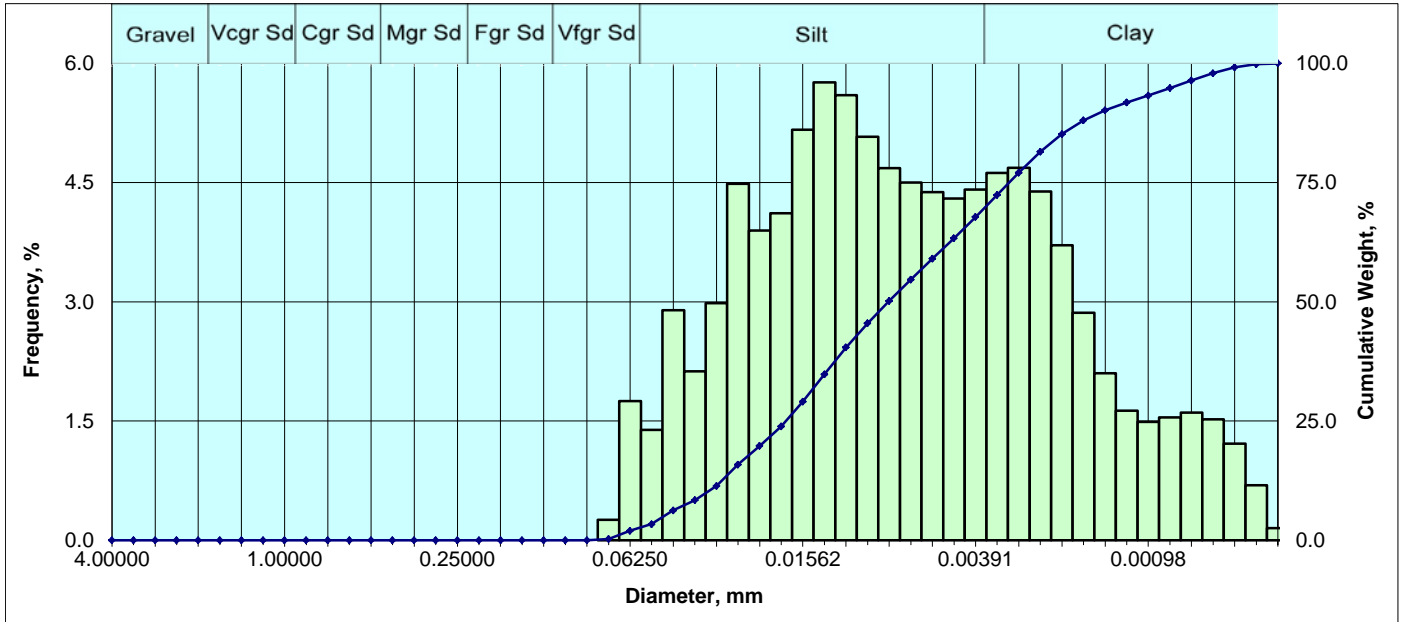


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.002	0.00
	230	0.002461	0.06250	4.00	0.129	0.13
	Silt	270	0.002069	0.05256	4.25	0.974
325		0.001740	0.04419	4.50	2.171	3.28
400		0.001463	0.03716	4.75	2.956	6.23
450		0.001230	0.03125	5.00	3.662	9.89
500		0.001035	0.02628	5.25	4.195	14.09
635		0.000870	0.02210	5.50	4.502	18.59
		0.000732	0.01858	5.75	4.739	23.33
		0.000615	0.01562	6.00	5.035	28.37
		0.000517	0.01314	6.25	5.303	33.67
		0.000435	0.01105	6.50	5.339	39.01
		0.000366	0.00929	6.75	5.269	44.28
		0.000308	0.00781	7.00	5.204	49.48
		0.000259	0.00657	7.25	5.158	54.64
		0.000217	0.00552	7.50	5.120	59.76
		0.000183	0.00465	7.75	5.063	64.82
	0.000154	0.00391	8.00	4.974	69.79	
Clay		0.000129	0.00328	8.25	4.769	74.56
		0.000109	0.00276	8.50	4.450	79.01
		0.000091	0.00232	8.75	4.030	83.04
		0.000077	0.00195	9.00	3.544	86.59
		0.000065	0.00164	9.25	3.032	89.62
		0.000054	0.00138	9.50	2.537	92.16
		0.000046	0.00116	9.75	2.085	94.24
		0.000038	0.00098	10.00	1.688	95.93
		0.000032	0.00082	10.25	1.353	97.28
		0.000027	0.00069	10.50	1.055	98.34
		0.000023	0.00058	10.75	0.785	99.12
		0.000019	0.00049	11.00	0.531	99.65
		0.000016	0.00041	11.25	0.278	99.93
		0.000015	0.00038	11.50	0.068	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0077	0.0077	0.0077	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0104	0.0074	0.0075	
Sorting	Poor			
	2.333	1.731	1.656	
Skewness	Near symmetrical			
	0.981	0.130	0.060	
Kurtosis	Platykurtic			
	0.243	0.507	0.875	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.13	69.66	30.21	99.87
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0016	0.0401	4.6405	
10	0.0012	0.0311	5.0058	
16	0.0010	0.0245	5.3509	
25	0.0007	0.0176	5.8282	
30	0.0006	0.0149	6.0726	
50	0.0003	0.0077	7.0234	
60	0.0002	0.0055	7.5111	
75	0.0001	0.0032	8.2727	
84	0.0001	0.0022	8.8133	
90	0.0001	0.0016	9.2848	
95	0.0000	0.0011	9.8569	



Sieve and Laser Particle Size Analysis

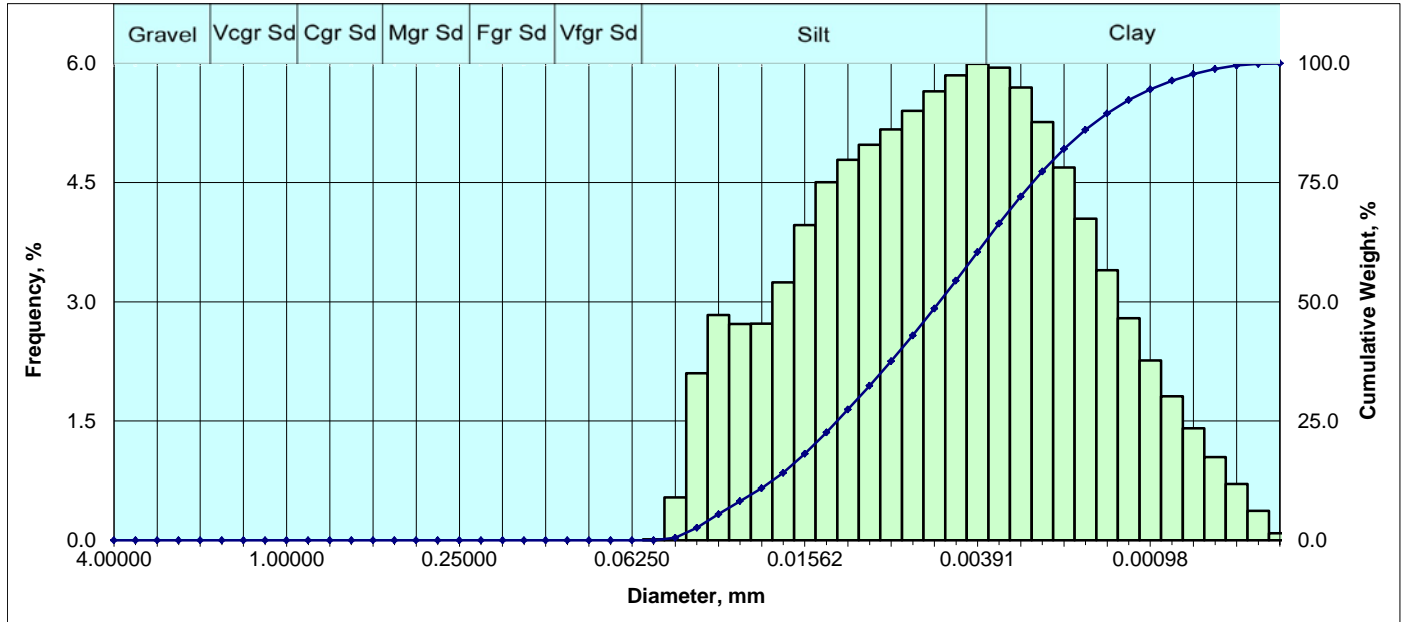


Particle Size Distribution						
	Diameter			Weight %		
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.259	0.26
	230	0.002461	0.06250	4.00	1.752	2.01
	Silt	270	0.002069	0.05256	4.25	1.389
325		0.001740	0.04419	4.50	2.893	6.29
400		0.001463	0.03716	4.75	2.125	8.42
450		0.001230	0.03125	5.00	2.983	11.40
500		0.001035	0.02628	5.25	4.484	15.89
635		0.000870	0.02210	5.50	3.896	19.78
		0.000732	0.01858	5.75	4.115	23.90
		0.000615	0.01562	6.00	5.166	29.06
		0.000517	0.01314	6.25	5.759	34.82
		0.000435	0.01105	6.50	5.601	40.42
		0.000366	0.00929	6.75	5.078	45.50
		0.000308	0.00781	7.00	4.680	50.18
		0.000259	0.00657	7.25	4.502	54.68
		0.000217	0.00552	7.50	4.380	59.06
	0.000183	0.00465	7.75	4.301	63.37	
	0.000154	0.00391	8.00	4.414	67.78	
Clay		0.000129	0.00328	8.25	4.623	72.40
		0.000109	0.00276	8.50	4.685	77.09
		0.000091	0.00232	8.75	4.387	81.47
		0.000077	0.00195	9.00	3.714	85.19
		0.000065	0.00164	9.25	2.862	88.05
		0.000054	0.00138	9.50	2.101	90.15
		0.000046	0.00116	9.75	1.629	91.78
		0.000038	0.00098	10.00	1.490	93.27
		0.000032	0.00082	10.25	1.545	94.81
		0.000027	0.00069	10.50	1.605	96.42
		0.000023	0.00058	10.75	1.521	97.94
		0.000019	0.00049	11.00	1.216	99.16
		0.000016	0.00041	11.25	0.691	99.85
		0.000015	0.00038	11.50	0.152	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0079	0.0079	0.0079	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0105	0.0074	0.0075	
Sorting	Poor			
	2.448	1.829	1.808	
Skewness	Near symmetrical			
	0.932	0.186	0.084	
Kurtosis	Mesokurtic			
	0.229	0.611	0.935	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	2.01	65.77	32.22	97.99
Percentile [Weight, %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0019	0.0479	4.3828	
10	0.0013	0.0340	4.8771	
16	0.0010	0.0262	5.2567	
25	0.0007	0.0180	5.7998	
30	0.0006	0.0152	6.0378	
50	0.0003	0.0079	6.9894	
60	0.0002	0.0053	7.5508	
75	0.0001	0.0030	8.3833	
84	0.0001	0.0021	8.9152	
90	0.0001	0.0014	9.4806	
95	0.0000	0.0008	10.2768	



Sieve and Laser Particle Size Analysis

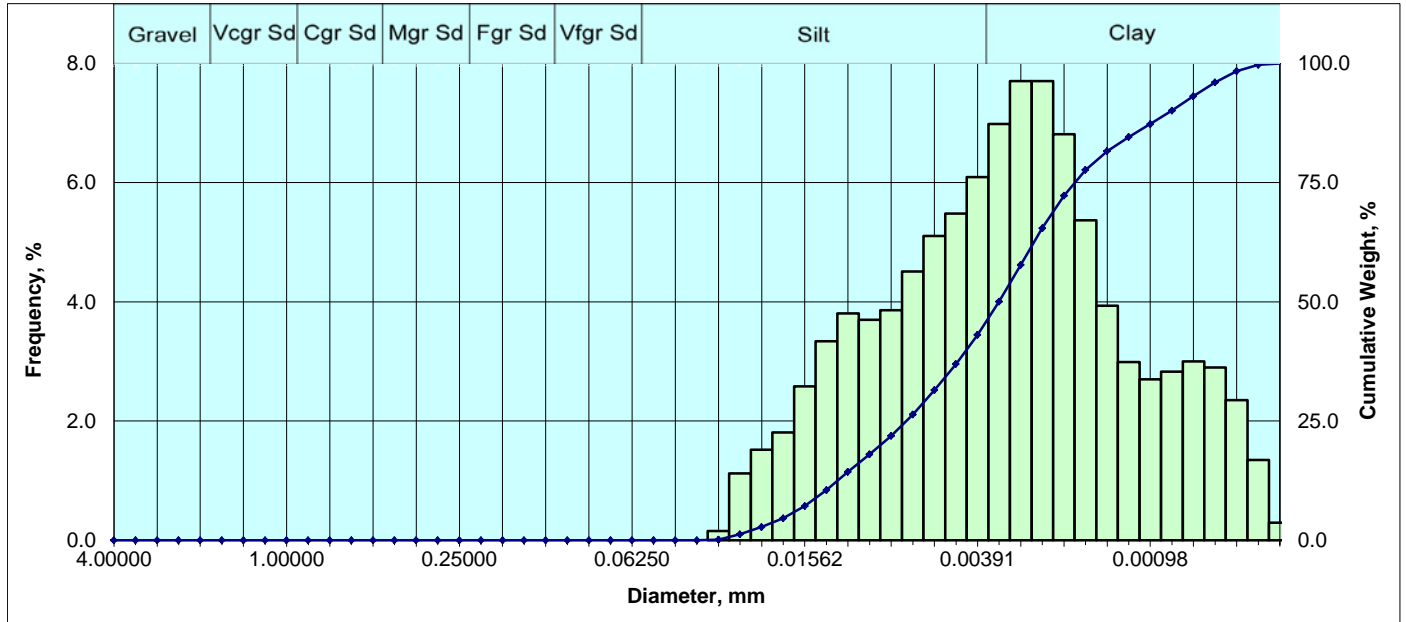


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
Medium Sand	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
Fine Sand	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
V. Fine Sand	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.013	0.01
	325	0.001740	0.04419	4.50	0.539	0.55
Silt	400	0.001463	0.03716	4.75	2.102	2.65
	450	0.001230	0.03125	5.00	2.833	5.49
	500	0.001035	0.02628	5.25	2.720	8.21
	635	0.000870	0.02210	5.50	2.724	10.93
		0.000732	0.01858	5.75	3.244	14.18
		0.000615	0.01562	6.00	3.964	18.14
		0.000517	0.01314	6.25	4.503	22.64
		0.000435	0.01105	6.50	4.786	27.43
		0.000366	0.00929	6.75	4.977	32.41
		0.000308	0.00781	7.00	5.170	37.58
		0.000259	0.00657	7.25	5.404	42.98
		0.000217	0.00552	7.50	5.647	48.63
		0.000183	0.00465	7.75	5.848	54.48
		0.000154	0.00391	8.00	5.994	60.47
	Clay		0.000129	0.00328	8.25	5.945
		0.000109	0.00276	8.50	5.695	72.11
		0.000091	0.00232	8.75	5.261	77.37
		0.000077	0.00195	9.00	4.689	82.06
		0.000065	0.00164	9.25	4.045	86.10
		0.000054	0.00138	9.50	3.400	89.50
		0.000046	0.00116	9.75	2.796	92.30
		0.000038	0.00098	10.00	2.262	94.56
		0.000032	0.00082	10.25	1.810	96.37
		0.000027	0.00069	10.50	1.410	97.78
		0.000023	0.00058	10.75	1.049	98.83
		0.000019	0.00049	11.00	0.708	99.54
		0.000016	0.00041	11.25	0.371	99.91
		0.000015	0.00038	11.50	0.091	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0053	0.0053	0.0053	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0073	0.0056	0.0055	
Sorting	Poor			
	2.192	1.627	1.587	
Skewness	Near symmetrical			
	1.039	-0.031	-0.031	
Kurtosis	Mesokurtic			
	0.216	0.568	0.924	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	60.47	39.53	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0013	0.0323	4.9538	
10	0.0009	0.0235	5.4095	
16	0.0007	0.0172	5.8597	
25	0.0005	0.0121	6.3677	
30	0.0004	0.0101	6.6237	
50	0.0002	0.0053	7.5549	
60	0.0002	0.0040	7.9788	
75	0.0001	0.0025	8.6320	
84	0.0001	0.0018	9.1146	
90	0.0001	0.0013	9.5413	
95	0.0000	0.0009	10.0567	



Sieve and Laser Particle Size Analysis

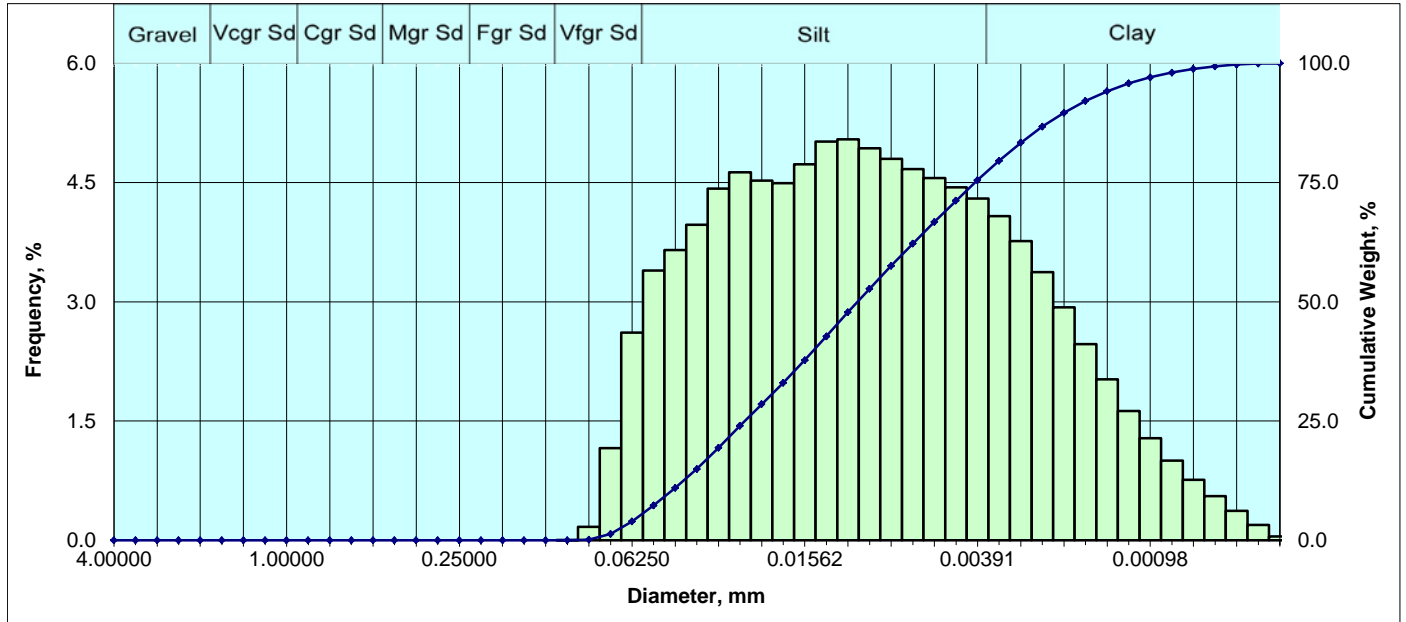


Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
Medium Sand	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
Fine Sand	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
V. Fine Sand	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.000	0.00
Silt	400	0.001463	0.03716	4.75	0.000	0.00
	450	0.001230	0.03125	5.00	0.155	0.15
	500	0.001035	0.02628	5.25	1.120	1.27
	635	0.000870	0.02210	5.50	1.521	2.80
		0.000732	0.01858	5.75	1.809	4.60
		0.000615	0.01562	6.00	2.580	7.19
		0.000517	0.01314	6.25	3.340	10.53
		0.000435	0.01105	6.50	3.807	14.33
		0.000366	0.00929	6.75	3.696	18.03
		0.000308	0.00781	7.00	3.859	21.89
Clay		0.000259	0.00657	7.25	4.512	26.40
		0.000217	0.00552	7.50	5.104	31.50
		0.000183	0.00465	7.75	5.482	36.99
		0.000154	0.00391	8.00	6.091	43.08
		0.000129	0.00328	8.25	6.982	50.06
		0.000109	0.00276	8.50	7.702	57.76
		0.000091	0.00232	8.75	7.702	65.46
		0.000077	0.00195	9.00	6.814	72.28
		0.000065	0.00164	9.25	5.367	77.64
		0.000054	0.00138	9.50	3.935	81.58
		0.000046	0.00116	9.75	2.990	84.57
		0.000038	0.00098	10.00	2.703	87.27
		0.000032	0.00082	10.25	2.831	90.10
		0.000027	0.00069	10.50	3.003	93.10
		0.000023	0.00058	10.75	2.899	96.00
	0.000019	0.00049	11.00	2.351	98.35	
	0.000016	0.00041	11.25	1.348	99.70	
	0.000015	0.00038	11.50	0.298	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Clay sized			
(in)	0.0001	0.0001	0.0001	
(mm)	0.0033	0.0033	0.0033	
Mean	Clay sized			
(in)	0.0002	0.0001	0.0001	
(mm)	0.0044	0.0035	0.0034	
Sorting	Poor			
	1.968	1.546	1.511	
Skewness	Near symmetrical			
	1.074	-0.017	-0.036	
Kurtosis	Mesokurtic			
	0.203	0.576	1.022	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	43.08	56.92	100.00
Percentile [Weight, %]		Particle Diameter		
	(in.)	(mm)	(phi)	
5	0.0007	0.0181	5.7856	
10	0.0005	0.0135	6.2077	
16	0.0004	0.0103	6.6075	
25	0.0003	0.0070	7.1677	
30	0.0002	0.0058	7.4218	
50	0.0001	0.0033	8.2477	
60	0.0001	0.0026	8.5684	
75	0.0001	0.0018	9.1215	
84	0.0000	0.0012	9.6990	
90	0.0000	0.0008	10.2402	
95	0.0000	0.0006	10.6584	



Sieve and Laser Particle Size Analysis



Particle Size Distribution					
	Diameter			Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000
	6	0.132425	3.36359	-1.75	0.000
	7	0.111355	2.82843	-1.50	0.000
	8	0.093638	2.37841	-1.25	0.000
	10	0.078740	2.00000	-1.00	0.000
V Crse Sand	12	0.066212	1.68179	-0.75	0.000
	14	0.055678	1.41421	-0.50	0.000
	16	0.046819	1.18921	-0.25	0.000
	18	0.039370	1.00000	0.00	0.000
Coarse Sand	20	0.033106	0.84090	0.25	0.000
	25	0.027839	0.70711	0.50	0.000
	30	0.023410	0.59460	0.75	0.000
	35	0.019685	0.50000	1.00	0.000
Medium Sand	40	0.016553	0.42045	1.25	0.000
	45	0.013919	0.35355	1.50	0.000
	50	0.011705	0.29730	1.75	0.000
	60	0.009843	0.25000	2.00	0.000
Fine Sand	70	0.008277	0.21022	2.25	0.000
	80	0.006960	0.17678	2.50	0.000
	100	0.005852	0.14865	2.75	0.000
	120	0.004921	0.12500	3.00	0.000
V. Fine Sand	140	0.004138	0.10511	3.25	0.002
	170	0.003480	0.08839	3.50	0.168
	200	0.002926	0.07433	3.75	1.161
	230	0.002461	0.06250	4.00	2.615
	Silt	270	0.002069	0.05256	4.25
325		0.001740	0.04419	4.50	3.653
400		0.001463	0.03716	4.75	3.971
450		0.001230	0.03125	5.00	4.423
500		0.001035	0.02628	5.25	4.628
635		0.000870	0.02210	5.50	4.527
		0.000732	0.01858	5.75	4.493
		0.000615	0.01562	6.00	4.729
		0.000517	0.01314	6.25	5.015
		0.000435	0.01105	6.50	5.043
		0.000366	0.00929	6.75	4.932
		0.000308	0.00781	7.00	4.797
Clay		0.000259	0.00657	7.25	4.670
		0.000217	0.00552	7.50	4.557
		0.000183	0.00465	7.75	4.439
		0.000154	0.00391	8.00	4.301
		0.000129	0.00328	8.25	4.078
		0.000109	0.00276	8.50	3.764
		0.000091	0.00232	8.75	3.372
		0.000077	0.00195	9.00	2.929
		0.000065	0.00164	9.25	2.468
		0.000054	0.00138	9.50	2.027
		0.000046	0.00116	9.75	1.627
		0.000038	0.00098	10.00	1.283
		0.000032	0.00082	10.25	1.002
		0.000027	0.00069	10.50	0.763
		0.000023	0.00058	10.75	0.557
	0.000019	0.00049	11.00	0.371	
	0.000016	0.00041	11.25	0.193	
	0.000015	0.00038	11.50	0.047	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0103	0.0103	0.0103	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0147	0.0098	0.0099	
Sorting	Poor			
	2.520	1.870	1.776	
Skewness	Near symmetrical			
	0.980	0.130	0.062	
Kurtosis	Platykurtic			
	0.240	0.484	0.853	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	3.95	71.57	24.48	96.05
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0023	0.0594	4.0731	
10	0.0018	0.0465	4.4277	
16	0.0014	0.0358	4.8048	
25	0.0010	0.0254	5.3008	
30	0.0008	0.0210	5.5765	
50	0.0004	0.0103	6.6051	
60	0.0003	0.0072	7.1257	
75	0.0002	0.0040	7.9674	
84	0.0001	0.0027	8.5441	
90	0.0001	0.0019	9.0317	
95	0.0000	0.0013	9.6240	



Company: Ramboll US Corporation
Project Name: Nevada Environmental Response Trust
Project Number: 1690006943-038

CL File Number: 1801096

APPENDIX 7

Chain of Custody

Test Requests

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT RE Phase 3 DATE 3/21/2018 FIELD PERSON# A. Marr
 PROJECT LOCATION Henderson, NV PROJECT MANAGER G. Kinsall
 PROJECT NUMBER 1690006943-036 LABORATORY Core labs

Sampler	Signature	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	Analysis Required												COMMENTS			
											1	2	3	4	5	6	7	8	9	10	11	12				
✓		PT-ES25B-15.0-15.5	3/21/2018	1055	15.0-15.5	-	S	1	U	No	X															
✓		PT-ES25B-25.0-25.5		1110	25.0-25.5	-					X															# HOLD pending instruction by J. Donovan/Ramboll
✓		PT-ES25B-35.0-35.6		1120	35.0-35.6	-					X															
✓		PT-ES25B-45.2-45.7		1130	45.2-45.7	-					X															
✓		PT-ES25B-55.0-55.4		1200	55.0-55.4	-					X															
✓		PT-ES25B-65.0-65.5		1210	65.0-65.5	-					X															
✓		PT-ES25B-76.5-77.0		1225	76.5-77.0	-					X															
✓		PT-ES25B-85.5-86.0		1235	85.5-86.0	-					X															
✓		PT-ES25B-96.0-96.5		1250	96.0-96.5	-					X															
✓		PT-ES25B-106.0-106.5		1440	106.0-106.5	-					X															
✓		PT-ES25B-119.0-119.5		1450	119.0-119.5	-					X															
TOTAL																										

RELINQUISHED BY <u>C. Enslin</u>	TIME/DATE <u>3/21/2018</u>	RECEIVED BY COMPANY <u>FEDEX</u>	TIME/DATE <u>3/21/2018</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS <u>NORMAL</u>
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY <u>Tracey Bishop - Core Lab</u>	TIME/DATE <u>1336-3-22-18</u>			
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

- Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
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 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT RI Phase 3 DATE 3/21/2018 FIELD PERSON# A. Marr
 PROJECT LOCATION Henderson, NV PROJECT MANAGER G. Kinsall
 PROJECT NUMBER 1690006943-036 LABORATORY Core Labs

Sampler	Signature	Analysis Required											COMMENTS													
		SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	* HOLD															
✓		PT-ES26-15.0-15.3	3/16/18	0909	15.0-15.3	-	S	1	U	No	X															
✓		PT-ES26-25.0-25.3		0942	25.0-25.3	-					X															
* ✓		PT-ES26-35.0-35.3		0958	35.0-35.3	-					X															
✓		PT-ES26-45.0-45.5		1003	45.0-45.5	-					X															
✓		PT-ES26-55.0-55.5		1008	55.0-55.5	-					X															
✓		PT-ES26-65.0-65.5		1021	65.0-65.5	-					X															
✓		PT-ES26-75.0-75.5		1038	75.0-75.5	-					X															
✓		PT-ES26-85.0-85.5		1056	85.0-85.5	-					X															
✓		PT-ES26-95.0-95.5		1123	95.0-95.5	-					X															
✓		PT-ES26-104.5-105.0		1143	104.5-105.0	-					X															
✓		PT-ES26-114.5-115.0		1201	114.5-115.0	-					X															
✓		PT-ESB18-14.5-15.0	2/27/18	0940	14.5-15.0	-					X															
TOTAL																										

RELINQUISHED BY <u>C. Ensin</u>	TIME/DATE <u>3/21/2018</u>	RECEIVED BY COMPANY <u>FEDEX</u>	TIME/DATE <u>3/21/2018</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY 24 HOURS 48 HOURS <u>(NORMAL)</u>	72 HOURS 5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY <u>Nancy Bishop Core Lab</u>	TIME/DATE <u>3/29/2018</u>			
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 350 S Grand Avenue, Suite 2800, Los Angeles, CA 90071 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #

PROJECT NAME/FACILITY ID NERI RI Phase 3 DATE 3/21/2018 FIELD PERSON# A. Marr

PROJECT LOCATION Henderson, NV PROJECT MANAGER G. Kinsall

PROJECT NUMBER 1690006943-036 LABORATORY Core Labs

Sampler	Signature	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	Analysis Required										COMMENTS			
											1	2	3	4	5	6	7	8	9	10		11	12	
✓		PT-ES27-16.0-16.3	3/7/18	0831	16.0-16.3	-	S	1	U	No	X													
✓		PT-ES27-25.0-25.3		0850	25.0-25.3	-					X													*HOLD pending instruction from J. Donovan/Ramboll
✓		PT-ES27-35.0-35.3		0918	35.0-35.3	-					X													
✓		PT-ES27-45.0-45.3		1012	45.0-45.3	-					X													
✓		PT-ES27-55.0-55.5		1112	55.0-55.5	-					X													
✓		PT-ES27-65.0-65.5		1119	65.0-65.5	-					X													
✓		PT-ES27-75.0-75.5		1136	75.0-75.5	-					X													
✓		PT-ES27-85.0-85.5		1419	85.0-85.5	-					X													
✓		PT-ES27-96.0-96.5		1422	96.0-96.5	-					X													
✓		PT-ES27-106.0-106.5		1429	106.0-106.5	-					X													
✓		PT-ES27-113.7-114.2		1550	113.7-114.2	-					X													
✓		PT-ES27-25.0-25.5	2/27/18	0955	25.0-25.5	-					X													
		TOTAL																						

RELINQUISHED BY <u>C. Enslin</u>	TIME/DATE <u>3/21/2018</u>	RECEIVED BY COMPANY <u>FEDEX</u>	TIME/DATE <u>3/21/2018</u>	TURNAROUND TIME (CIRCLE ONE)	SAMPLE DAY 24 HOURS 48 HOURS <u>72 HOURS</u> 5 DAYS <u>NORMAL</u>
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY <u>Hacey Bishop - Core Lab</u>	TIME/DATE <u>1332 3-22-18</u>		
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N

SWBU Office Locations: 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
 350 S Grand Avenue, Suite 2800, Los Angeles, CA 90071 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____
 PROJECT NAME/FACILITY ID NERT R1 Phase 3 DATE 3/21/2018 FIELD PERSON# A. Manion
 PROJECT LOCATION Henderson, NV PROJECT MANAGER G. Kinsell
 PROJECT NUMBER 1690006943-036 LABORATORY Core Labs

Sampler	Signature	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	Analysis Required										COMMENTS			
											1	2	3	4	5	6	7	8	9	10		11	12	
		PT-ES17-55.5-56.0	3/19/18	1038	55.5-56.0	1	S	1	U	No	X													
		PT-ES17-74.5-75.0	3/19/18	1204	74.5-75.0	1	S	1	U	No	X													* HOLD pending instructions from J. Donovary Ramboll
		TOTAL																						

RELINQUISHED BY <u>C. Enslin</u>	TIME/DATE <u>3/21/2018</u>	RECEIVED BY COMPANY	TIME/DATE	TURNAROUND TIME (CIRCLE ONE)	SAME DAY 24 HOURS 48 HOURS	72 HOURS 5 DAYS NORMAL
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE			
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	

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UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# MSA # WORK ORDER #

PROJECT NAME/FACILITY ID NERT R1 Phase 3 DATE 3/21/2018 FIELD PERSON# A. Manion

PROJECT LOCATION Henderson, NV PROJECT MANAGER G. Kinsall

PROJECT NUMBER 1690006943-036 LABORATORY Core Labs

Sampler	Signature	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	Analysis Required										COMMENTS				
											1	2	3	4	5	6	7	8	9	10		11	12		
		✓ PT-ESIS-14.5-14.8	3/20/2018	0830	14.5-14.8	-	S	1	U	No	X														
		✓ PT-ESIS-24.5-24.8		0835	24.5-24.8	-					X														
		✓ PT-ESIS-35.0-35.3		0920	35.0-35.3	-					X														
		✓ PT-ESIS-44.5-44.8		0925	44.5-44.8	-					X														
		✓ PT-ESIS-54.7-55.0		1015	54.7-55.0	-					X														
		✓ PT-ESIS-65.0-65.5		1035	65.0-65.5	-					X														
		✓ PT-ESIS-74.2-74.7		1050	74.2-74.7	-					X														
		✓ PT-ESIS-84.5-85.0		1115	84.5-85.0	-					X														
		✓ PT-ESIS-94.5-95.0		1120 1218	94.5-95.0	-					X														
		✓ PT-ESIS-104.5-105.0		1242	104.5-105.0	-					X														
		✓ PT-ESIS-112.0-112.3		1308	112.0-112.3	-					X														
		✓ PT-ESIS-118.5-119.0		1318	118.5-119.0	-					X														
		TOTAL																							

RELINQUISHED BY <u>C. Enlin</u>	TIME/DATE <u>3/20/2018</u>	RECEIVED BY COMPANY <u>Nancy Bishop - Core Lab</u>	TIME/DATE <u>1320 3-22-18</u>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		24 HOURS	5 DAYS
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP _____	SAMPLE INTEGRITY INTACT Y N	
					NORMAL	

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2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701

To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

NERT Project Work Order No. CL-2018-001
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST
 for Sample Shipment Group 4 (sent 3/21/18)

Date: April 20, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
ES-15	14.5 - 14.8	PT-ES15-14.5-14.8	Glass jar	X	X (1)							X
ES-15	24.5 - 24.8	PT-ES15-24.5-24.8	Glass jar	X	X (1)							X
ES-15	35.0 - 35.5	PT-ES15-35.0-35.5	Glass jar	X	X (1)							X
ES-15	44.5 - 44.8	PT-ES15-44.5-44.8	Glass jar	X	X (1)							X
ES-15	54.7 - 55.0	PT-ES15-54.7-55.0	Glass jar	X	X (1)							X
ES-15	65.0 - 65.5	PT-ES15-65.0-65.5	wrapped core	X	X	X	X	X	V	57.5 ft	7.5 ft	X
ES-15	74.2 - 74.7	PT-ES15-74.2-74.7	wrapped core	X	X	X	X	X				X
ES-15	84.5 - 85.0	PT-ES15-84.5-85.0	wrapped core	X	X	X	X	X				X
ES-15	94.5 - 95.0	PT-ES15-94.5-95.0	wrapped core	X	X	X	X	X				X
ES-15	104.5 - 105.0	PT-ES15-104.5-105.0	wrapped core	X	X	X	X	X	V	57.5 ft	47 ft	X
ES-15	112.0 - 112.3	PT-ES15-112.0-112.3	Glass jar	X	X (1)							X
ES-15	118.5 - 119.0	PT-ES15-118.5-119.0	wrapped core	X	X	X	X	X	V	57.5 ft	61 ft	X
ES-17	55.5 - 56.0	PT-ES17-55.5-56.0	wrapped core	X	X	X	X	X	V	42 ft	13.5 ft	X
ES-17	74.5 - 75.0	PT-ES17-74.5-75.0	wrapped core	X	X	X	X	X	V	42 ft	32.5 ft	X
ES-25B	15.0 - 15.5	PT-ES25B-15.0-15.5	Glass jar	X	X (1)							X
ES-25B	25.0 - 25.5	PT-ES25B-25.0-25.5	wrapped core	X	X	X	X	X	V	15 ft	10 ft	X
ES-25B	35.0 - 35.6	PT-ES25B-35.0-35.6	wrapped core	X	X	X	X	X				X
ES-25B	45.2 - 45.7	PT-ES25B-45.2-45.7	wrapped core	X	X	X	X	X				X
ES-25B	55.0 - 55.4	PT-ES25B-55.0-55.4	wrapped core	X	X	X	X	X	V	15 ft	40 ft	X
ES-25B	65.0 - 65.5	PT-ES25B-65.0-65.5	wrapped core	X	X	X	X	X				X
ES-25B	76.5 - 77.0	PT-ES25B-76.5-77.0	wrapped core	X	X	X	X	X				X
ES-25B	85.5 - 86.0	PT-ES25B-85.5-86.0	wrapped core	X	X	X	X	X	V	15 ft	70.5 ft	X
ES-25B	96.0 - 96.5	PT-ES25B-96.0-96.5	wrapped core	X	X	X	X	X				X
ES-25B	106.0 - 106.5	PT-ES25B-106.0-106.5	wrapped core	X	X	X	X	X				X
ES-25B	119.0 - 119.5	PT-ES25B-119.0-119.5	wrapped core	X	X	X	X	X				X

To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

NERT Project Work Order No. CL-2018-001
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169 000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST
 for Sample Shipment Group 4 (sent 3/21/18)

Date: April 20, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
ES-26	15.0 - 15.3	PT-ES26-15.0-15.3	Glass jar	X	X (1)							X
ES-26	25.0 - 25.3	PT-ES26-25.0-25.3	Glass jar	X	X (1)							X
ES-26	35.0 - 35.5	PT-ES26-35.0-35.5	Glass jar	X	X (1)							X
ES-26	45.0 - 45.5	PT-ES26-45.0-45.5	wrapped core	X	X	X	X	X	V	19 ft	26 ft	X
ES-26	55.0 - 55.5	PT-ES26-55.0-55.5	wrapped core	X	X	X	X	X				X
ES-26	65.0 - 65.5	PT-ES26-65.0-65.5	wrapped core	X	X	X	X	X				X
ES-26	75.0 - 75.5	PT-ES26-75.0-75.5	wrapped core	X	X	X	X	X				X
ES-26	85.0 - 85.5	PT-ES26-85.0-85.5	wrapped core	X	X	X	X	X	V	19 ft	66 ft	X
ES-26	95.0 - 95.5	PT-ES26-95.0-95.5	wrapped core	X	X	X	X	X				X
ES-26	105.0 - 105.5	PT-ES26-105.0-105.5	wrapped core	X	X	X	X	X				X
ES-26	115.0 - 115.5	PT-ES26-115.0-115.5	wrapped core	X	X	X	X	X	V	19 ft	96 ft	X
ES-27	16.0 - 16.3	PT-ES27-16.0-16.3	Glass jar	X	X (1)							X
ES-27	25.0 - 25.3	PT-ES27-25.0-25.3	Glass jar	X	X (1)							X
ES-27	35.0 - 35.3	PT-ES27-35.0-35.3	Glass jar	X	X (1)							X
ES-27	45.0 - 45.3	PT-ES27-45.0-45.3	Glass jar	X	X (1)							X
ES-27	55.0 - 55.5	PT-ES27-55.0-55.5	wrapped core	X	X	X	X	X	V	46 ft	9 ft	X
ES-27	65.0 - 65.5	PT-ES27-65.0-65.5	wrapped core	X	X	X	X	X				X
ES-27	75.0 - 75.5	PT-ES27-75.0-75.5	wrapped core	X	X	X	X	X				X
ES-27	85.0 - 85.5	PT-ES27-85.0-85.5	wrapped core	X	X	X	X	X	V	46 ft	39 ft	X
ES-27	96.0 - 96.5	PT-ES27-96.0-96.5	wrapped core	X	X	X	X	X				X
ES-27	106.0 - 106.5	PT-ES27-106.0-106.5	wrapped core	X	X	X	X	X				X
ES-27	113.7 - 114.2	PT-ES27-113.7-114.2	wrapped core	X	X	X	X	X	V	46 ft	68 ft	X

To: Larry Kunkel, Core Laboratories
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NERT Project Work Order No. CL-2018-001
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

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PHYSICAL TESTING REQUEST
 for Sample Shipment Group 4 (sent 3/21/18)

Date: April 20, 2018
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
ESB-18	14.5 - 15.0	PT-ESB18-14.5-15.0	Glass jar	X	X (1)							X
ESB-18	25.0 - 25.5	PT-ESB18-25.0-25.5	Glass jar	X	X (1)							X
ESB-18	35.0 - 35.5	PT-ESB18-35.0-35.5	Glass jar	X	X (1)							X
ESB-18	45.0 - 45.5	PT-ESB18-45.0-45.5	Glass jar	X	X (1)							X
ESB-18	55.0 - 55.5	PT-ESB18-55.0-55.5	wrapped core	X	X	X	X	X	V	46 ft	9 ft	X
ESB-18	64.5 - 65.0	PT-ESB18-64.5-65.0	wrapped core	X	X	X	X	X				X
ESB-18	74.5 - 75.0	PT-ESB18-74.5-75.0	wrapped core	X	X	X	X	X				X
ESB-18	85.0 - 85.5	PT-ESB18-85.0-85.5	wrapped core	X	X	X	X	X	V	46 ft	39 ft	X
ESB-18	95.0 - 95.5	PT-ESB18-95.0-95.5	wrapped core	X	X	X	X	X				X
ESB-18	104.5 - 105.0	PT-ESB18-104.5-105.0	wrapped core	X	X	X	X	X				X
ESB-18	115.0 - 115.5	PT-ESB18-115.0-115.5	wrapped core	X	X	X	X	X	V	46 ft	69 ft	X
ESB-18	124.5 - 125.0	PT-ESB18-124.5-125.0	wrapped core	X	X	X	X	X				X
ESB-18	134.5 - 135.0	PT-ESB18-134.5-135.0	wrapped core	X	X	X	X	X				X
ESB-18	144.5 - 145.0	PT-ESB18-144.5-145.0	wrapped core	X	X	X	X	X	V	46 ft	98.5 ft	X
TOTALS:				61	61	43	43	43	18			61

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
 Project Name: NERT RI Phase 3
 Project Number: 1690006943-038

CL File Number: 1801096
 Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES15-14.5-14.8	Coarse Grain Sand	2.2368	22.35	31.75	35.00	8.12	2.0	0.7	2.8
PT-ES15-24.5-24.8	Coarse Grain Sand	2.9144	26.72	41.59	22.38	5.33	2.9	1.1	4.0
PT-ES15-35.0-35.3	Coarse Grain Sand	2.8535	31.63	34.71	25.60	4.20	2.7	1.2	3.9
PT-ES15-44.5-44.8	Coarse Grain Sand	3.2829	38.18	31.81	17.68	5.21	5.0	2.1	7.1
PT-ES15-54.7-55.0	Coarse Grain Sand	3.1828	35.18	38.45	22.93	1.76	1.0	0.7	1.7
PT-ES15-65.0-65.5	Silt	0.0080	0.00	0.00	0.00	1.16	73.1	25.8	98.8
PT-ES15-74.2-74.7	Silt	0.0048	0.00	0.00	0.00	0.00	57.0	43.0	100.0
PT-ES15-84.5-85.0	Silt	0.0061	0.00	0.00	0.00	0.01	65.4	34.6	100.0
PT-ES15-94.5-95.0	Silt	0.0130	0.00	0.00	0.00	8.00	72.4	19.6	92.0
PT-ES15-104.5-105.0	Silt	0.0108	0.00	0.00	0.00	2.51	73.9	23.6	97.5
PT-ES15-112.0-112.3	Silt	0.0117	0.00	0.00	0.00	11.68	63.6	24.7	88.3
PT-ES15-118.5-119.0	Silt	0.0066	0.00	0.00	0.00	0.63	63.4	36.0	99.4



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
 Project Name: NERT RI Phase 3
 Project Number: 1690006943-038

CL File Number: 1801096
 Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
Coarse	Medium	Fine							
PT-ES17-55.5-56.0	Silt	0.0116	0.00	0.00	0.00	0.66	67.0	32.3	99.3
PT-ES17-74.5-75.0	Silt	0.0095	0.00	0.00	0.00	0.60	66.0	33.4	99.4



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES25B-15.0-15.5	Silt	0.0049	0.00	0.00	0.00	0.00	46.2	53.8	100.0
PT-ES25B-25.0-25.5	Silt	0.0156	0.00	0.00	0.00	11.49	62.2	26.3	88.5
PT-ES25B-35.0-35.6	Silt	0.0121	0.00	0.00	0.00	1.67	67.6	30.7	98.3
PT-ES25B-45.2-45.7	Silt	0.0056	0.00	0.00	0.00	0.00	50.2	49.8	100.0
PT-ES25B-55.0-55.4	Silt	0.0109	0.00	0.00	0.00	1.57	63.8	34.6	98.4
PT-ES25B-65.0-65.5	Silt	0.0033	0.00	0.00	0.00	0.00	38.3	61.7	100.0
PT-ES25B-76.5-77.0	Silt	0.0040	0.00	0.00	0.00	0.00	37.5	62.5	100.0
PT-ES25B-85.5-86.0	Silt	0.0088	0.00	0.00	0.00	0.91	60.7	38.4	99.1
PT-ES25B-96.0-96.5	Silt	0.0048	0.00	0.00	0.00	0.00	45.3	54.7	100.0
PT-ES25B-106.0-106.5	Silt	0.0134	0.00	0.00	0.00	4.69	66.8	28.5	95.3
PT-ES25B-119.0-119.5	Silt	0.0130	0.00	0.00	0.00	5.19	66.9	27.9	94.8



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES26-15.0-15.3	Silt	0.0052	0.00	0.00	0.00	0.00	47.5	52.5	100.0
PT-ES26-25.0-25.3	Silt	0.0107	0.00	0.00	0.00	1.10	67.2	31.7	98.9
PT-ES26-35.0-35.3	Silt	0.0150	0.00	0.00	0.00	9.00	65.3	25.8	91.0
PT-ES26-45.0-45.5	Silt	0.0186	0.00	0.00	0.00	16.19	62.4	21.4	83.8
PT-ES26-55.0-55.5	Silt	0.0062	0.00	0.00	0.00	0.00	53.8	46.2	100.0
PT-ES26-65.0-65.5	Silt	0.0095	0.00	0.00	0.00	0.68	66.7	32.6	99.3
PT-ES26-75.0-75.5	Silt	0.0067	0.00	0.00	0.00	0.00	55.5	44.5	100.0
PT-ES26-85.0-85.5	Silt	0.0112	0.00	0.00	0.00	1.03	66.8	32.2	99.0
PT-ES26-95.0-95.5	Silt	0.0072	0.00	0.00	0.00	0.00	57.2	42.8	100.0
PT-ES26-104.5-105.0	Silt	0.0243	0.00	0.00	0.00	22.53	57.9	19.6	77.5
PT-ES26-114.5-115.0	Silt	0.0130	0.00	0.00	0.00	5.91	67.0	27.1	94.1



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ES27-16.0-16.3	Coarse Grain Sand	2.2535	18.32	37.53	34.81	5.57	2.5	1.3	3.8
PT-ES27-25.0-25.3	Coarse Grain Sand	1.9831	20.44	29.30	34.00	8.84	5.0	2.5	7.4
PT-ES27-35.0-35.3	Coarse Grain Sand	2.1377	35.56	29.80	24.75	4.21	3.8	1.9	5.7
PT-ES27-45.0-45.3	Silt	0.0179	0.00	0.00	0.00	20.15	62.8	17.0	79.8
PT-ES27-55.0-55.5	Silt	0.0264	0.00	0.00	5.95	25.83	57.0	11.2	68.2
PT-ES27-65.0-65.5	Silt	0.0162	0.00	0.00	0.00	14.17	68.3	17.6	85.8
PT-ES27-75.0-75.5	Silt	0.0404	0.00	1.30	9.33	32.34	47.6	9.4	57.0
PT-ES27-85.0-85.5	Silt	0.0517	0.00	4.20	5.64	39.69	44.6	5.9	50.5
PT-ES27-96.0-96.5	Silt	0.0182	0.00	0.00	0.00	17.02	68.3	14.7	83.0
PT-ES27-106.0-106.5	Silt	0.0126	0.00	0.00	0.00	10.24	69.1	20.6	89.8
PT-ES27-113.7-114.2	Silt	0.0111	0.00	0.00	0.00	10.97	62.3	26.7	89.0



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: NERT RI Phase 3
Project Number: 1690006943-038

CL File Number: 1801096
Date: 5/30/2018

Sample ID	Grain Size Description (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Gravel	Sand Size			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-ESB18-14.5-15.0	Gravel	3.1355	42.99	20.60	24.35	6.39	4.0	1.7	5.7
PT-ESB18-25.0-25.5	Coarse Grain Sand	2.6654	45.19	27.34	19.95	4.24	2.3	0.9	3.3
PT-ESB18-35.0-35.5	Coarse Grain Sand	2.7778	40.19	19.65	27.24	6.87	3.9	2.1	6.0
PT-ESB18-45.0-45.5	Silt	0.0067	0.00	0.00	0.00	1.04	65.7	33.3	99.0
PT-ESB18-55.0-55.6	Silt	0.0064	0.00	0.00	0.00	0.42	67.0	32.6	99.6
PT-ESB18-64.5-65.0	Silt	0.0117	0.00	0.00	0.00	11.68	64.3	24.0	88.3
PT-ESB18-74.5-75.0	Silt	0.0096	0.00	0.00	0.00	4.00	71.0	25.0	96.0
PT-ESB18-85.0-85.5	Silt	0.0169	0.00	0.00	0.00	15.87	67.6	16.6	84.1
PT-ESB18-95.0-95.5	Silt	0.0043	0.00	0.00	0.00	0.00	53.0	47.0	100.0
PT-ESB18-104.5-105.0	Silt	0.0077	0.00	0.00	0.00	1.11	68.7	30.2	98.9
PT-ESB18-115.0-115.5	Silt	0.0079	0.00	0.00	0.00	3.40	64.4	32.2	96.6
PT-ESB18-124.5-125.0	Silt	0.0053	0.00	0.00	0.00	0.01	60.5	39.5	100.0
PT-ESB18-134.5-135.0	Clay	0.0033	0.00	0.00	0.00	0.00	43.1	56.9	100.0
PT-ESB18-144.5-145.0	Silt	0.0103	0.00	0.00	0.00	7.34	68.2	24.5	92.7



NERT RI Phase 2 Modification 13

1690006943-013

Ramboll US Corporation

Clark County, Nevada

FINAL REPORT

CL File: 1803764

Performed by:

Core Laboratories LP

3437 Landco Drive

Bakersfield, California 93308

(661) 325-5657

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Petroleum Services Division
3437 Landco Dr.
Bakersfield, California 93308
Tel: 661-325-5657
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www.corelab.com

January 31, 2019

Jessica Donovan
Ramboll US Corporation
2200 Powell Street, Suite 700
Emeryville, CA 94608

Subject: Physical Properties Analysis
Project No.:1690006943-013
CL File No.: 1803764

Dear Jessica:

The attached files present the final results for the samples submitted from your project NERT RI Phase 2 Modification 13.

Grain size analysis, Atterberg Limits, Moisture Content, Density, Porosity, Hydraulic Conductivity, and TOC were performed on requested samples where there was suitable recovery. Appropriate ASTM, EPA or API methodologies were used for this project and SOP's are available on request. The samples for this project are currently in storage and will be retained for thirty days past completion of testing at no charge. At the end of thirty days, the samples will be disposed. You may contact me regarding continued storage, disposal, or return of the samples.

Thank you for this opportunity to be of service to Ramboll US Corporation. Please do not hesitate to contact us at (661-325-5657) if you have any questions regarding these results or if we can be of any additional service.

Sincerely,
Core Laboratories

A handwritten signature in black ink, appearing to read "Eva Lopez", is written over a horizontal line.

Eva Lopez
Core Analyst

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Ramboll US Corporation

Core Lab File No: 1803764

Project Name : NERT RI Phase 2 Modification 13

Project Number : 1690006943-013

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Table 1

Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No. 1803764

Project Name : NERT RI Phase 2 Modification 13
 Project Number : 1690006943-013

Sample ID.	Depth ft.	METHODS: Sample ¹ Orientation	API RP40 ASTM D2216	API RP40 ASTM D5550		API RP 40 ASTM D425M	
			Moisture Content	Density		Total ²	Effective ³
			% dry weight	Dry Bulk g/cm ³	Grain gm/cc	%	%Vb ⁴
PT-RIDB30-34.5-35.0	34.70	H	55.1	1.07	2.67	60.0	12.4
PT-RIDB30-45.0-45.5	45.70	H	47.6	1.16	2.68	56.8	5.48
PT-RIDB30-55.0-55.5	55.30	H	42.2	1.24	2.68	53.6	6.25
PT-RIDB30-63.5-64.0	63.70	H	69.1	0.926	2.69	65.6	7.82
PT-RIDB30-74.5-75.0	74.70	H	24.5	1.56	2.68	41.8	5.12
PT-RIDB30-84.5-85	84.70	H	41.5	1.25	2.69	53.6	4.34
PT-RIDB30-95.5-95.5	95.20	V	55.1	1.07	2.66	59.8	10.2
PT-RIDB30-105.0-105.5	105.30	H	66.7	0.948	2.68	64.6	2.54
PT-RIDB30-121.2-121.7	121.50	V	48.7	1.14	2.70	57.6	7.40
PT-RIDB31-35.0-35.5	35.30	H	70.3	0.915	2.67	65.7	14.1
PT-RIDB31-45.0-45.5	45.30	H	49.3	1.13	2.71	58.4	11.9
PT-RIDB31-55.0-55.5	55.30	H	33.0	1.41	2.69	47.5	5.72
PT-RIDB31-65.0-65.5	65.30	H	48.2	1.15	2.70	57.3	5.19
PT-RIDB31-75.0-75.5	75.30	H	56.7	1.03	2.68	61.5	3.56
PT-RIDB31-85.0-85.61	85.30	H	47.8	1.16	2.67	56.7	5.77
PT-RIDB31-95.0-95.5	95.30	H	45.9	1.18	2.67	55.9	4.21
PT-RIDB31-105.0-105.5	105.20	V	48.5	1.14	2.66	57.1	1.94
PT-RIDB31-120.0-120.6	120.30	H	35.5	1.33	2.68	50.4	3.52
PT-RIDB31-149.0-149.5	149.30	V	73.3	0.878	2.65	66.9	13.2
PT-RIDB32-55.0-55.5	55.30	H	74.6	0.876	2.62	66.6	7.76
PT-RIDB32-65.0-65.5	65.30	H	32.4	1.43	2.69	46.8	6.41



Table 1 Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No. 1803764

Project Name : NERT RI Phase 2 Modification 13
 Project Number : 1690006943-013

Sample ID.	Depth ft.	METHODS: Sample ¹ Orientation	API RP40 ASTM D2216	API RP40 ASTM D5550		API RP 40 ASTM D425M	
			Moisture Content	Density		Porosity	
			% dry weight	Dry Bulk g/cm ³	Grain gm/cc	Total ² %	Effective ³ %Vb ⁴
PT-RIDB32-75.0-75.5	75.30	V	82.4	0.810	2.67	69.7	14.1
PT-RIDB32-84.5-85.0	84.80	H	63.9	0.968	2.68	63.8	4.37
PT-RIDB32-96.2-96.7	96.40	H	54.3	1.07	2.67	59.9	4.26
PT-RIDB32-104.5-105.0	104.70	H	37.8	1.31	2.67	50.9	1.51
PT-RIDB32-118.6-119.1	118.90	H	34.0	1.38	2.68	48.6	7.93
PT-RIDB32-136.0-136.6	136.30	H	58.0	1.03	2.65	61.2	2.57
PT-RIDB32-149.5-150.0	149.80	H	70.4	0.906	2.66	66.0	5.93
PT-RIDB33-45.0-45.5	45.30	H	60.0	1.01	2.65	61.8	9.06
PT-RIDB33-55.0-55.5	55.30	H	82.6	0.813	2.62	69.0	10.0
PT-RIDB33-64.5-65.0	64.80	H	40.8	1.26	2.63	52.2	6.35
PT-RIDB33-75.0-75.4	75.30	V	50.9	1.12	2.66	58.0	13.3
PT-RIDB33-85.0-85.5	85.30	H	32.6	1.39	2.64	47.3	19.0
PT-RIDB33-95.0-95.5	95.30	H	53.7	1.06	2.66	60.0	9.58
PT-RIDB33-106.2-106.7	106.50	V	18.6	1.72	2.69	36.2	11.1
PT-RIDB33-120.0-120.5	120.30	V	41.1	1.25	2.67	52.9	5.29
PT-RIDB33-135.0-135.5	135.30	H	30.1	1.46	2.68	45.4	4.27
PT-RIDB33-149.6-150.0	149.80	V	59.5	1.01	2.62	61.2	5.02

- (1) Sample Orientation: H = horizontal; V = vertical.
- (2) Total Porosity = no pore fluids in place; all interconnected pore channels.
- (3) Effective Porosity = drainage porosity.
- (4) Vb = Bulk Volume, cc.



Table 2 HYDRAULIC CONDUCTIVITY

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No. 1803764

Project Name : NERT RI Phase 2 Modification 13

Project Number : 1690006943-013

METHODS: API RP 40; ASTM D5084; EPA 9100

Sample ID.	Depth, ft.	Sample Orientation ¹	100 psi Net Confining Stress	
			Effective Permeability to Water, ^{2,3} millidarcy	Saturated Hydraulic Conductivity, ^{2,3} cm/s
PT-RIDB30-95.5-95.5	95.20	V	<0.001	<10E-10
PT-RIDB30-121.2-121.7	121.50	V	0.0097	1.00E-08
PT-RIDB31-105.0-105.5	105.20	V	<0.001	<10E-10
PT-RIDB31-149.0-149.5	149.30	V	<0.001	<10E-10
PT-RIDB32-75.0-75.5	75.30	V	<0.001	<10E-10
PT-RIDB33-75.0-75.4	75.30	V	0.789	7.90E-07
PT-RIDB33-106.2-106.7	106.50	V	0.591	6.18E-07
PT-RIDB33-120.0-120.5	120.30	V	<0.001	<10E-10
PT-RIDB33-149.6-150.0	149.80	V	<0.001	<10E-10

(1) Sample Orientation: H = horizontal; V = vertical

(2) Native State or Effective = With as-received pore fluids in place.

(3) Permeability to water and hydraulic conductivity measured at saturated conditions.



Table 3 TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1803764

Project Name : NERT RI Phase 2 Modification 13

Project Number : 1690006943-013

METHODS:

Walkley-Black

Sample ID.	Depth ft.	Sample Date	Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
PT-RIDB30-14.5-15.0	14.5-15.0	10/08/18	3300	3.30E-03
PT-RIDB30-25.0-25.5	25.0-25.2	10/08/18	2300	2.30E-03
PT-RIDB30-34.5-35.0	34.70	10/08/18	2600	2.60E-03
PT-RIDB30-45.0-45.5	45.70	10/08/18	2200	2.20E-03
PT-RIDB30-55.0-55.5	55.30	10/08/18	2700	2.70E-03
PT-RIDB30-63.5-64.0	63.70	10/08/18	3600	3.60E-03
PT-RIDB30-74.5-75.0	74.70	10/08/18	3100	3.10E-03
PT-RIDB30-84.5-85	84.70	10/08/18	2300	2.30E-03
PT-RIDB30-95.5-95.5	95.20	10/08/18	3200	3.20E-03
PT-RIDB30-105.0-105.5	105.30	10/08/18	3300	3.30E-03
PT-RIDB30-121.2-121.7	121.50	10/08/18	4100	4.10E-03
PT-RIDB30-123.5-124.0	123.5-124.0	10/08/18	2600	2.60E-03
PT-RIDB30-134.6-135.0	134.6-135.0	10/08/18	2400	2.40E-03
PT-RIDB30-148.0-148.4	148.0-148.4	10/08/18	3200	3.20E-03
PT-RIDB31-15.0-15.5	15.0-15.5	10/09/18	2200	2.20E-03
PT-RIDB31-24.5-25.0	24.5-25.0	10/09/18	2700	2.70E-03
PT-RIDB31-35.0-35.5	35.30	10/09/18	3000	3.00E-03
PT-RIDB31-45.0-45.5	45.30	10/09/18	3300	3.30E-03
PT-RIDB31-55.0-55.5	55.30	10/09/18	3300	3.30E-03
PT-RIDB31-65.0-65.5	65.30	10/09/18	3400	3.40E-03
PT-RIDB31-75.0-75.5	75.30	10/09/18	2400	2.40E-03



Table 3 TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1803764

Project Name : NERT RI Phase 2 Modification 13

Project Number : 1690006943-013

METHODS:

Walkley-Black

Sample ID.	Depth ft.	Sample Date	Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
PT-RIDB31-78.5-79.0	78.5-79.0	10/09/18	1900	1.90E-03
PT-RIDB31-85.0-85.61	85.30	10/09/18	3400	3.40E-03
PT-RIDB31-95.0-95.5	95.30	10/09/18	3200	3.20E-03
PT-RIDB31-105.0-105.5	105.20	10/09/18	3200	3.20E-03
PT-RIDB31-120.0-120.6	120.30	10/09/18	4100	4.10E-03
PT-RIDB31-138.0-138.5	138.0-138.5	10/09/18	3600	3.60E-03
PT-RIDB31-149.0-149.5	149.30	10/09/18	3100	3.10E-03
PT-RIDB32-14.5-15.0	14.5-15.0	10/10/18	2600	2.60E-03
PT-RIDB32-24.5-25.0	24.5-25.0	10/10/18	2200	2.20E-03
PT-RIDB32-34.5-35.0	34.5-35	10/10/18	1500	1.50E-03
PT-RIDB32-44.5-45.0	44.5-45.0	10/10/18	2300	2.30E-03
PT-RIDB32-55.0-55.5	55.30	10/10/18	3000	3.00E-03
PT-RIDB32-65.0-65.5	65.30	10/10/18	2500	2.50E-03
PT-RIDB32-75.0-75.5	75.30	10/10/18	3700	3.70E-03
PT-RIDB32-84.5-85.0	84.80	10/10/18	3300	3.30E-03
PT-RIDB32-96.2-96.7	96.40	10/10/18	2800	2.80E-03
PT-RIDB32-104.5-105.0	104.70	10/10/18	2200	2.20E-03
PT-RIDB32-118.6-119.1	118.90	10/10/18	3300	3.30E-03
PT-RIDB32-136.0-136.6	136.30	10/10/18	4100	4.10E-03
PT-RIDB32-149.5-150.0	149.80	10/10/18	3200	3.20E-03
PT-RIDB33-14.5-15.0	14.5-15.0	10/11/18	2800	0.0028



Table 3 TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1803764

Project Name : NERT RI Phase 2 Modification 13

Project Number : 1690006943-013

METHODS:

Walkley-Black

Sample ID.	Depth ft.	Sample Date	Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
PT-RIDB33-25.0-25.5	25.0-25.5	10/11/18	2000	0.002
PT-RIDB33-34.5-35.0	34.5-35.0	10/11/18	2000	0.002
PT-RIDB33-45.0-45.5	45.30	10/11/18	2100	2.10E-03
PT-RIDB33-55.0-55.5	55.30	10/11/18	2500	2.50E-03
PT-RIDB33-64.5-65.0	64.80	10/11/18	2800	2.80E-03
PT-RIDB33-75.0-75.4	75.30	10/11/18	1800	1.80E-03
PT-RIDB33-85.0-85.5	85.30	10/11/18	2200	2.20E-03
PT-RIDB33-95.0-95.5	95.30	10/11/18	2200	2.20E-03
PT-RIDB33-106.2-106.7	106.50	10/11/18	1900	1.90E-03
PT-RIDB33-120.0-120.5	120.30	10/11/18	1600	1.60E-03
PT-RIDB33-135.0-135.5	135.30	10/11/18	2300	2.30E-03
PT-RIDB33-149.6-150.0	149.80	10/11/18	3300	3.30E-03



Table 4 ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No. 1803764

Project Name : NERT RI Phase 2 Modification 13

Project Number : 1690006943-013

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D2487		ASTM D2487	SSM Ch. 3
		Atterberg Limits ¹			USCS / Plasticity Classification	USCS Classification	USDA Soil Texture Classification	
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI				Group Name
PT-RIDB30-14.5-15.0	14.5-15.0	33	24	9	ML	SP-SM: Poorly graded sand with silt and gravel	Gravelly sand	
PT-RIDB30-25.0-25.5	25.0-25.2	Non-plastic			NP	SM: Silty sand	Gravelly sand	
PT-RIDB30-34.5-35.0	34.7	41	28	13	ML	Silt	Silt	
PT-RIDB30-45.0-45.5	45.5	62	22	40	CH	Fat clay	Silt	
PT-RIDB30-55.0-55.5	55.3	54	25	29	CH	Fat clay	Silt	
PT-RIDB30-63.5-64.0	63.7	83	36	47	CH	Fat clay	Silt	
PT-RIDB30-74.5-75.0	74.70	38	20	18	CL	Lean clay	Silt	
PT-RIDB30-84.5-85	84.70	64	21	43	CH	Fat clay	Silt	
PT-RIDB30-95.5-95.5	95.20	135	27	108	CH	Fat clay	Silt	
PT-RIDB30-105.0-105.5	105.30	121	27	94	CH	Fat clay	Silt	
PT-RIDB30-121.2-121.7	121.5	102	27	75	CH	Fat clay	Silt	
PT-RIDB30-123.5-124.0	123.5-124.0	51	23	28	CH	Sandy fat clay	Sandy loam	
PT-RIDB30-134.6-135.0	134.6-135.0	71	29	42	CH	Fat clay with sand	Silt loam	
PT-RIDB30-148.0-148.4	148.0-148.4	70	25	45	CH	Fat clay	Silt	
PT-RIDB31-15.0-15.5	15.0-15.5	35	25	10	ML	SP-SM: Poorly graded sand with silt and gravel	Very gravelly loamy sand	
PT-RIDB31-24.5-25.0	24.5-25.0	34	19	15	CL	SC: Clayey sand	Sandy loam	
PT-RIDB31-35.0-35.5	35.3	73	36	37	MH	Elastic silt with sand	Silt loam	
PT-RIDB31-45.0-45.5	45.3	50	27	23	CH	Fat clay	Silt	
PT-RIDB31-55.0-55.5	55.3	43	20	23	CL	Lean clay	Silt loam	
PT-RIDB31-65.0-65.5	65.3	71	27	44	CH	Fat clay	Silt	
PT-RIDB31-75.0-75.5	75.3	131	27	104	CH	Fat clay	Silt loam	
PT-RIDB31-78.5-79.0	78.5-79.0	39	20	19	CL	Lean clay	Silt	



Table 4 ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No. 1803764

Project Name : NERT RI Phase 2 Modification 13

Project Number : 1690006943-013

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D2487		ASTM D2487		SSM Ch. 3
		Atterberg Limits ¹			USCS / Plasticity		USCS		USDA
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI	Classification Group Symbol	Classification Group Name		Soil Texture Classification	
PT-RIDB31-85.0-85.61	85.3	79	23	56	CH	Fat clay		Silt	
PT-RIDB31-95.0-95.5	95.3	75	29	46	CH	Fat clay		Silt	
PT-RIDB31-105.0-105.5	105.2	118	27	91	CH	Fat clay		Silt loam	
PT-RIDB31-120.0-120.6	120.3	75	21	54	CH	Fat clay		Silt	
PT-RIDB31-138.0-138.5	138.0-138.5	79	27	52	CH	Fat clay		Silt loam	
PT-RIDB31-149.0-149.5	149.3	101	36	65	CH	Fat clay		Silt	
PT-RIDB32-14.5-15.0	14.5-15.0	39	26	13	ML	SM: Silty sand		Very gravelly loamy sand	
PT-RIDB32-24.5-25.0	24.5-25.0		Non-plastic		NP	SP-SM: Poorly graded sand with silt		Very gravelly sand	
PT-RIDB32-34.5-35.0	34.5-35		Non-plastic		NP	SM: Silty sand		Gravelly loamy sand	
PT-RIDB32-44.5-45.0	44.5-45.0	42	27	15	ML	Silt		Silt	
PT-RIDB32-55.0-55.5	55.3	81	35	46	CH	Fat clay		Silt	
PT-RIDB32-65.0-65.5	65.3	40	23	17	CL	Lean clay		Silt	
PT-RIDB32-75.0-75.5	75.3	141	28	113	CH	Fat clay		Silt	
PT-RIDB32-84.5-85.0	84.8	103	26	77	CH	Fat clay		Silt	
PT-RIDB32-96.2-96.7	96.4	93	26	67	CH	Fat clay		Silt	
PT-RIDB32-104.5-105.0	104.7	82	22	60	CH	Fat clay		Silt	
PT-RIDB32-118.6-119.1	118.9	46	17	29	CL	Lean clay		Silt loam	
PT-RIDB32-136.0-136.6	136.3	109	30	79	CH	Fat clay		Silt	
PT-RIDB32-149.5-150.0	149.8	94	36	58	CH	Fat clay		Silt	
PT-RIDB33-14.5-15.0	14.5-15.0		Non-plastic		NP	SP-SM Poorly graded sand with silt and gravel		Very gravelly sand	
PT-RIDB33-25.0-25.5	25.0-25.5	28	18	10	CL	SC: Clayey sand		Very gravelly loamy sand	
PT-RIDB33-34.5-35.0	34.5-35.0		Non-plastic		NP	SP-SM: Poorly graded sand with silt		Very gravelly loamy sand	



Table 4 ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No. 1803764

Project Name : NERT RI Phase 2 Modification 13

Project Number : 1690006943-013

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D2487		ASTM D2487		SSM Ch. 3
		Atterberg Limits ¹			USCS / Plasticity		USCS		USDA
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI	Classification Group Symbol		Classification Group Name		Soil Texture Classification
PT-RIDB33-45.0-45.5	45.3	62	37	25	MH		Elastic silt		Silt
PT-RIDB33-55.0-55.5	55.3	81	46	35	MH		Elastic silt		Silt
PT-RIDB33-64.5-65.0	64.8	43	34	9	ML		Silt		Silt
PT-RIDB33-75.0-75.4	75.3	47	31	16	ML		Silt		Silt
PT-RIDB33-85.0-85.5	85.3	29	26	3	ML		Silt		Silt loam
PT-RIDB33-95.0-95.5	95.3	56	31	25	MH		Elastic silt		Silt loam
PT-RIDB33-106.2-106.7	106.5	Non-plastic			NP		SM: Silty sand		Gravelly loamy sand
PT-RIDB33-120.0-120.5	120.3	102	22	80	CH		Fat clay		Silt
PT-RIDB33-135.0-135.5	135.3	45	20	25	CL		Lean clay		Silt
PT-RIDB33-149.6-150.0	149.8	155	31	124	CH		Fat clay		Silt

USCS: Unified Soil Classification System

USDA: US Department of Agriculture

SSM: Soil Survey Manual, USDA Handbook No. 18 (2017)

* Grain size analysis indicates swelling clays.

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.



Table 5
SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation

Project Name: NERT RI Phase 2 Modification 13

Project Number: 1690006943-013

CL File No. 1803764

Date: 1/17/2019

Sample ID/Depth (ft)	Grain Size Description** (Mean from Folk)	Median Grain Size, mm	Component Percentages								
			Granule	Sand Size					Silt	Clay	Silt & Clay
				VCoarse	Coarse	Medium	Fine	VFine			
PT-RIDB30-14.5-15.0	Very Coarse Grain Sand	1.7306	44.83	23.89	11.44	5.03	3.09	3.41	7.06	1.24	8.30
PT-RIDB30-25.0-25.2	Medium Grain Sand	0.5417	17.28	20.69	13.28	11.05	14.49	11.04	10.00	2.17	12.17
PT-RIDB30-34.7	Silt	0.0127	0.00	0.00	0.00	0.00	0.00	0.00	79.68	20.32	100.00
PT-RIDB30-45.5	Silt	0.0160	0.00	0.00	0.00	0.00	0.01	8.72	76.48	14.80	91.28
PT-RIDB30-55.3	Silt	0.0128	0.00	0.00	0.00	0.00	0.00	1.93	79.28	18.78	98.07
PT-RIDB30-63.7	Silt	0.0116	0.00	0.00	0.00	0.00	0.00	0.00	81.39	18.61	100.00
PT-RIDB30-74.7	Silt	0.0085	0.35	0.00	0.00	0.00	0.00	0.00	74.41	25.24	99.65
PT-RIDB30-84.7	Silt	0.0080	0.00	0.00	0.00	0.00	0.00	0.97	72.42	26.60	99.03
PT-RIDB30-95.2	Silt	0.0059	0.00	0.00	0.00	0.00	0.00	0.00	68.77	31.23	100.00
PT-RIDB30-105.3	Silt	0.0082	0.00	0.00	0.00	0.00	0.00	0.00	75.19	24.81	100.00
PT-RIDB30-121.5	Silt	0.0085	0.00	0.00	0.00	0.00	0.00	0.00	75.82	24.18	100.00
PT-RIDB30-123.5-124.0	Silt	0.0460	0.00	0.00	0.00	0.72	8.74	29.98	53.47	7.09	60.56
PT-RIDB30-134.6-135.0	Silt	0.0285	6.59	0.00	0.23	2.85	4.12	11.68	65.52	9.01	74.53
PT-RIDB30-148.0-148.4	Silt	0.0108	0.00	0.00	0.00	0.00	0.00	0.00	80.79	19.21	100.00

**Wentworth Scale



Table 5
SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation

Project Name: NERT RI Phase 2 Modification 13

Project Number: 1690006943-013

CL File No. 1803764

Date: 1/17/2019

Sample ID/Depth (ft)	Grain Size Description** (Mean from Folk)	Median Grain Size, mm	Component Percentages								
			Granule	Sand Size					Silt	Clay	Silt & Clay
				VCoarse	Coarse	Medium	Fine	VFine			
PT-RIDB31-15.0-15.5	Very Coarse Grain Sand	1.9837	49.66	24.20	9.40	3.89	2.51	2.34	6.81	1.19	8.00
PT-RIDB31-24.5-25.0	Very Fine Grain Sand	0.1430	5.82	17.63	14.18	7.39	6.68	9.54	28.31	10.45	38.76
PT-RIDB31-35.3	Silt	0.0309	3.01	0.00	0.31	2.06	4.84	16.67	62.99	10.13	73.12
PT-RIDB31-45.3	Silt	0.0121	0.00	0.00	0.00	0.00	0.00	0.00	78.79	21.21	100.00
PT-RIDB31-55.3	Silt	0.0194	0.00	0.00	0.00	0.00	0.01	14.24	71.95	13.80	85.75
PT-RIDB31-65.3	Silt	0.0086	0.00	0.00	0.00	0.00	0.00	0.00	75.45	24.55	100.00
PT-RIDB31-75.3	Silt	0.0048	0.00	0.00	0.00	0.00	0.00	0.00	59.92	40.08	100.00
PT-RIDB31-778.5-79.0	Silt	0.0115	0.00	0.00	0.00	0.00	0.00	0.01	80.32	19.67	99.99
PT-RIDB31-885.3	Silt	0.0098	0.00	0.00	0.00	0.00	0.00	0.00	80.53	19.47	100.00
PT-RIDB31-95.3	Silt	0.0131	0.00	0.00	0.00	0.00	0.00	0.01	81.19	18.80	99.99
PT-RIDB31-105.2	Silt	0.0052	0.00	0.00	0.00	0.00	0.00	0.00	61.87	38.13	100.00
PT-RIDB31-120.3	Silt	0.0116	0.55	0.00	0.00	0.00	0.00	0.04	81.42	18.00	99.41
PT-RIDB31-138.0-138.5	Silt	0.0265	0.00	0.00	0.00	0.00	0.01	16.25	72.99	10.75	83.75
PT-RIDB31-149.3	Silt	0.0140	0.00	0.00	0.00	0.00	0.00	0.00	84.32	15.68	100.00
PT-RIDB32-14.5-15.0	Coarse Grain Sand	1.5789	37.08	31.08	9.43	4.39	3.04	3.06	10.19	1.73	11.92

**Wentworth Scale



Table 5
SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation

Project Name: NERT RI Phase 2 Modification 13

Project Number: 1690006943-013

CL File No. 1803764

Date: 1/17/2019

Sample ID/Depth (ft)	Grain Size Description** (Mean from Folk)	Median Grain Size, mm	Component Percentages								
			Granule	Sand Size					Silt	Clay	Silt & Clay
				VCoarse	Coarse	Medium	Fine	VFine			
PT-RIDB32-24.5-25.0	Very Coarse Grain Sand	1.6463	41.58	26.37	9.99	4.57	4.01	4.59	7.30	1.59	8.88
PT-RIDB32-34.5-35	Coarse Grain Sand	1.1204	25.29	29.25	18.90	7.47	3.78	2.87	9.45	2.98	12.44
PT-RIDB32-44.5-45.0	Silt	0.0117	0.00	0.00	0.00	0.00	0.00	0.00	78.64	21.36	100.00
PT-RIDB32-55.3	Silt	0.0137	0.00	0.00	0.00	0.00	0.00	4.85	75.87	19.28	95.15
PT-RIDB32-65.3	Silt	0.0141	0.00	0.00	0.00	0.00	0.00	0.00	81.71	18.29	100.00
PT-RIDB32-75.3	Silt	0.0106	0.00	0.00	0.00	0.00	0.00	0.55	85.33	14.12	99.45
PT-RIDB32-84.8	Silt	0.0084	0.00	0.00	0.00	0.00	0.00	0.00	77.48	22.52	100.00
PT-RIDB32-96.4	Silt	0.0076	0.00	0.00	0.00	0.00	0.00	0.00	77.05	22.95	100.00
PT-RIDB32-104.7	Silt	0.0070	0.00	0.00	0.00	0.00	0.00	0.00	74.02	25.98	100.00
PT-RIDB32-118.9	Silt	0.0045	0.00	0.00	0.00	0.00	0.00	0.00	54.45	45.55	100.00
PT-RIDB32-136.3	Silt	0.0168	0.00	0.00	0.00	0.00	0.00	2.03	85.68	12.29	97.97
PT-RIDB32-149.8	Silt	0.0129	0.00	0.00	0.00	0.00	0.00	0.01	82.12	17.88	99.99
PT-RIDB33-14.5-15.0	Very Coarse Grain Sand	1.7556	47.41	14.52	12.02	7.71	5.51	4.40	7.29	1.12	8.42
PT-RIDB33-25.0-25.5	Coarse Grain Sand	1.4952	43.23	16.22	9.65	5.72	4.31	5.22	12.73	2.93	15.66
PT-RIDB33-34.5-35.0	Very Coarse Grain Sand	1.8613	47.10	25.47	10.11	3.90	2.67	2.47	6.20	2.07	8.27

**Wentworth Scale



Table 5
SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation

Project Name: NERT RI Phase 2 Modification 13

Project Number: 1690006943-013

CL File No. 1803764

Date: 1/17/2019

Sample ID/Depth (ft)	Grain Size Description** (Mean from Folk)	Median Grain Size, mm	Component Percentages									
			Granule	Sand Size					Silt	Clay	Silt & Clay	
				VCoarse	Coarse	Medium	Fine	VFine				
PT-RIDB33-45.3	Silt	0.0123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.02	20.98	100.00
PT-RIDB33-55.3	Silt	0.0156	0.00	0.00	0.00	0.00	0.00	0.12	83.40	16.48	99.88	
PT-RIDB33-64.8	Silt	0.0110	0.00	0.00	0.00	0.00	0.00	0.00	76.36	23.64	100.00	
PT-RIDB33-75.3	Silt	0.0123	0.00	0.00	0.00	0.00	0.00	0.00	79.65	20.35	100.00	
PT-RIDB33-85.3	Silt	0.0287	0.00	0.00	0.00	0.00	0.12	18.16	69.23	12.48	81.72	
PT-RIDB33-95.3	Silt	0.0255	0.00	0.00	0.00	0.00	0.00	16.59	71.39	12.01	83.41	
PT-RIDB33-106.5	Coarse Grain Sand	1.0388	29.31	21.68	16.30	9.93	4.85	4.01	12.09	1.82	13.92	
PT-RIDB33-120.3	Silt	0.0066	0.00	0.00	0.00	0.00	0.00	0.00	71.22	28.78	100.00	
PT-RIDB33-135.3	Silt	0.0077	0.00	0.00	0.00	0.00	0.00	0.00	72.73	27.27	100.00	
PT-RIDB33-149.8	Silt	0.0070	0.00	0.00	0.00	0.00	0.00	0.00	74.26	25.74	100.00	

**Wentworth Scale



Table 6 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
 Project Name: NERT RI Phase 2 Modification 13
 Project Number: 1690006943-013

CL File No.: 1803764
 Date: 1/17/2019

Sample ID/Depth (ft)	Grain Size Description** (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Granule	Sand Sized			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-RIDB30-14.5-15.0	Coarse Grain Sand	1.7306	23.35	21.48	36.64	9.50	7.39	1.64	9.03
PT-RIDB30-25.0-25.2	Medium Grain Sand	0.5417	12.39	4.89	36.68	32.06	11.15	2.83	13.98
PT-RIDB30-34.7	Silt	0.0127	0.00	0.00	0.00	0.00	72.22	27.78	100.00
PT-RIDB30-45.5	Silt	0.0160	0.00	0.00	0.00	5.35	73.60	21.04	94.65
PT-RIDB30-55.3	Silt	0.0128	0.00	0.00	0.00	0.28	73.54	26.18	99.72
PT-RIDB30-63.7	Silt	0.0116	0.00	0.00	0.00	0.00	72.84	27.16	100.00
PT-RIDB30-74.7	Silt	0.0085	0.00	0.35	0.00	0.00	64.29	35.36	99.65
PT-RIDB30-84.7	Silt	0.0080	0.00	0.00	0.00	0.06	62.62	37.32	99.94
PT-RIDB30-95.2	Silt	0.0059	0.00	0.00	0.00	0.00	52.98	47.02	100.00
PT-RIDB30-105.3	Silt	0.0082	0.00	0.00	0.00	0.00	64.55	35.45	100.00
PT-RIDB30-121.5	Silt	0.0085	0.00	0.00	0.00	0.00	65.37	34.63	100.00
PT-RIDB30-123.5-124.0	Silt	0.0460	0.00	0.00	0.00	32.23	58.03	9.73	67.77
PT-RIDB30-134.6-135.0	Silt	0.0285	0.00	6.59	0.68	14.52	65.38	12.83	78.21
PT-RIDB30-148.0-148.4	Silt	0.0108	0.00	0.00	0.00	0.00	71.47	28.53	100.00
PT-RIDB31-15.0-15.5	Coarse Grain Sand	1.9837	27.31	22.35	34.82	7.05	6.82	1.65	8.47
PT-RIDB31-24.5-25.0	Medium Grain Sand	0.1430	1.06	4.77	33.84	19.25	27.88	13.20	41.08
PT-RIDB31-35.3	Silt	0.0309	0.00	3.01	0.69	18.10	64.14	14.07	78.20
PT-RIDB31-45.3	Silt	0.0121	0.00	0.00	0.00	0.00	71.29	28.71	100.00
PT-RIDB31-55.3	Silt	0.0194	0.00	0.00	0.00	8.61	72.08	19.32	91.39
PT-RIDB31-65.3	Silt	0.0086	0.00	0.00	0.00	0.00	65.23	34.77	100.00
PT-RIDB31-75.3	Silt	0.0048	0.00	0.00	0.00	0.00	42.80	57.20	100.00
PT-RIDB31-778.5-79.0	Silt	0.0115	0.00	0.00	0.00	0.00	72.39	27.61	100.00

**USCS Scale



Table 6 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
 Project Name: NERT RI Phase 2 Modification 13
 Project Number: 1690006943-013

CL File No.: 1803764
 Date: 1/17/2019

Sample ID/Depth (ft)	Grain Size Description** (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Granule	Sand Sized			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-RIDB31-885.3	Silt	0.0098	0.00	0.00	0.00	0.00	70.62	29.38	100.00
PT-RIDB31-95.3	Silt	0.0131	0.00	0.00	0.00	0.00	73.87	26.13	100.00
PT-RIDB31-105.2	Silt	0.0052	0.00	0.00	0.00	0.00	47.00	53.00	100.00
PT-RIDB31-120.3	Silt	0.0116	0.00	0.55	0.00	0.00	73.83	25.62	99.45
PT-RIDB31-138.0-138.5	Silt	0.0265	0.00	0.00	0.00	9.26	75.58	15.16	90.74
PT-RIDB31-149.3	Silt	0.0140	0.00	0.00	0.00	0.00	77.55	22.45	100.00
PT-RIDB32-14.5-15.0	Medium Grain Sand	1.5789	5.72	31.35	41.84	8.50	10.18	2.41	12.59
PT-RIDB32-24.5-25.0	Medium Grain Sand	1.6463	11.28	30.29	37.78	10.76	7.86	2.02	9.89
PT-RIDB32-34.5-35	Medium Grain Sand	1.1204	10.04	15.26	50.74	11.01	9.11	3.84	12.96
PT-RIDB32-44.5-45.0	Silt	0.0117	0.00	0.00	0.00	0.00	70.53	29.47	100.00
PT-RIDB32-55.3	Silt	0.0137	0.00	0.00	0.00	1.32	72.28	26.40	98.68
PT-RIDB32-65.3	Silt	0.0141	0.00	0.00	0.00	0.00	75.09	24.91	100.00
PT-RIDB32-75.3	Silt	0.0106	0.00	0.00	0.00	0.12	76.66	23.22	99.88
PT-RIDB32-84.8	Silt	0.0084	0.00	0.00	0.00	0.00	66.23	33.77	100.00
PT-RIDB32-96.4	Silt	0.0076	0.00	0.00	0.00	0.00	64.10	35.90	100.00
PT-RIDB32-104.7	Silt	0.0070	0.00	0.00	0.00	0.00	60.44	39.56	100.00
PT-RIDB32-118.9	Silt	0.0045	0.00	0.00	0.00	0.00	43.67	56.33	100.00
PT-RIDB32-136.3	Silt	0.0168	0.00	0.00	0.00	0.27	81.27	18.46	99.73
PT-RIDB32-149.8	Silt	0.0129	0.00	0.00	0.00	0.00	74.76	25.24	100.00
PT-RIDB33-14.5-15.0	Coarse Grain Sand	1.7556	29.08	18.33	28.75	14.51	7.85	1.48	9.33
PT-RIDB33-25.0-25.5	Medium Grain Sand	1.4952	11.40	31.82	27.47	12.48	13.00	3.83	16.83
PT-RIDB33-34.5-35.0	Coarse Grain Sand	1.8613	10.18	36.93	36.76	7.32	6.21	2.60	8.82
PT-RIDB33-45.3	Silt	0.0123	0.00	0.00	0.00	0.00	70.93	29.07	100.00

**USCS Scale



Table 6 SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
 Project Name: NERT RI Phase 2 Modification 13
 Project Number: 1690006943-013

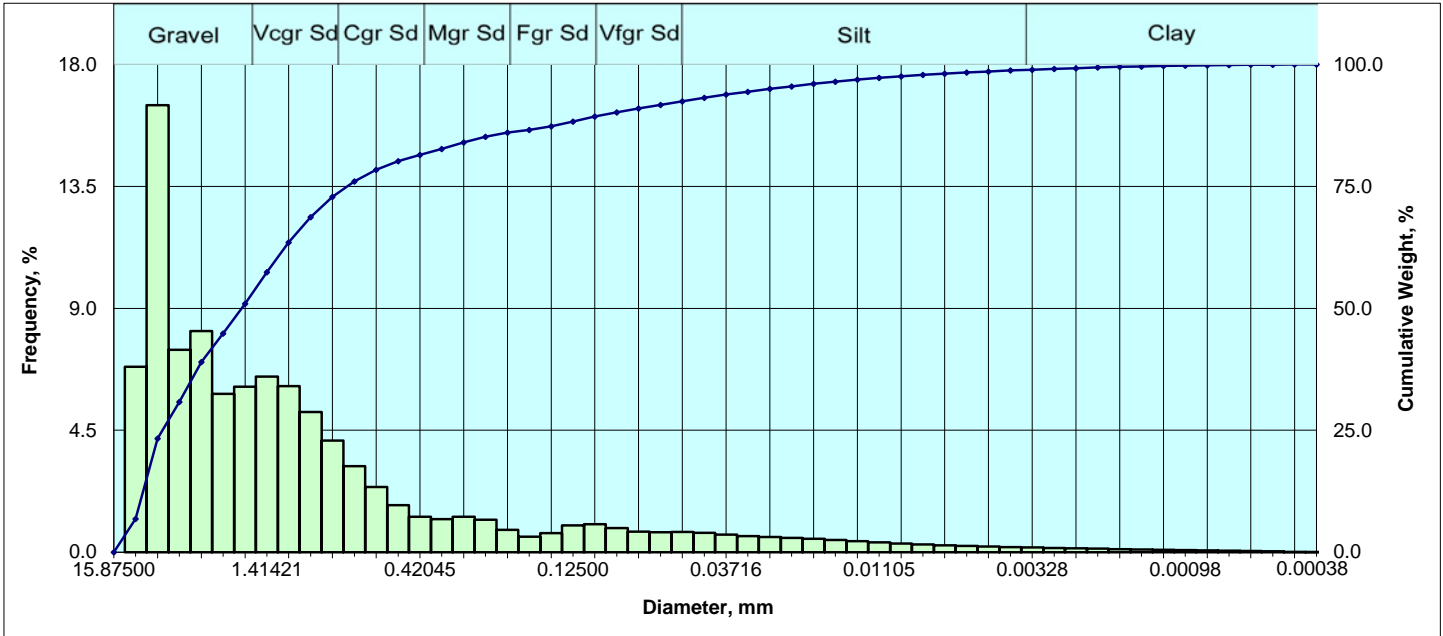
CL File No.: 1803764
 Date: 1/17/2019

Sample ID/Depth (ft)	Grain Size Description** (Mean from Trask)	Median Grain Size, mm	Component Percentages						
			Granule	Sand Sized			Silt	Clay	Silt & Clay
				Coarse	Medium	Fine			
PT-RIDB33-55.3	Silt	0.0156	0.00	0.00	0.00	0.00	76.84	23.16	100.00
PT-RIDB33-64.8	Silt	0.0110	0.00	0.00	0.00	0.00	68.38	31.62	100.00
PT-RIDB33-75.3	Silt	0.0123	0.00	0.00	0.00	0.00	72.25	27.75	100.00
PT-RIDB33-85.3	Silt	0.0287	0.00	0.00	0.00	11.99	71.70	16.31	88.01
PT-RIDB33-95.3	Silt	0.0255	0.00	0.00	0.00	9.17	74.53	16.30	90.83
PT-RIDB33-106.5	Medium Grain Sand	1.0388	9.54	19.77	41.15	14.84	12.22	2.48	14.69
PT-RIDB33-120.3	Silt	0.0066	0.00	0.00	0.00	0.00	57.87	42.13	100.00
PT-RIDB33-135.3	Silt	0.0077	0.00	0.00	0.00	0.00	61.46	38.54	100.00
PT-RIDB33-149.8	Silt	0.0070	0.00	0.00	0.00	0.00	60.43	39.57	100.00

**USCS Scale



Sieve and Laser Particle Size Analysis



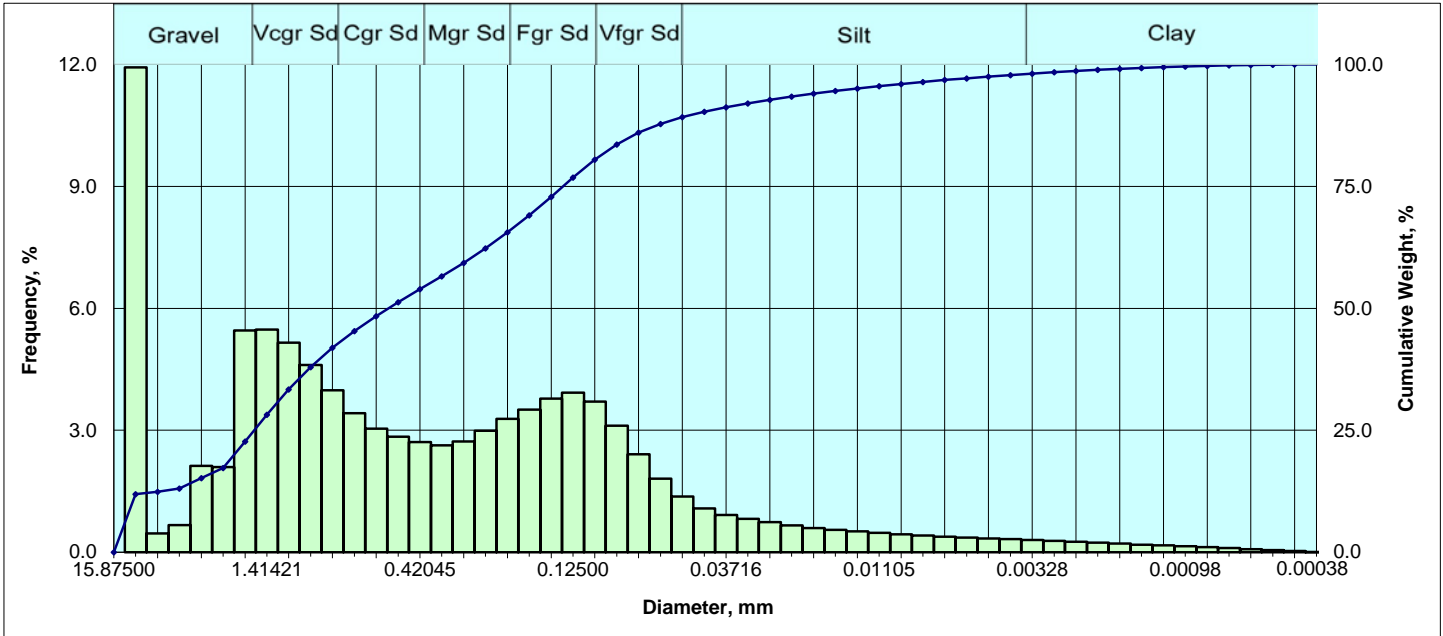
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	6.849	6.85
	4	0.187008	4.75000	-2.25	16.500	23.35
	6	0.131890	3.35000	-1.75	7.472	30.82
	8	0.092913	2.36000	-1.25	8.161	38.98
V Crse Sand	10	0.078740	2.00000	-1.00	5.848	44.83
	12	0.066212	1.68179	-0.75	6.106	50.94
	14	0.055678	1.41421	-0.50	6.482	57.42
	16	0.046819	1.18921	-0.25	6.126	63.54
Coarse Sand	18	0.039370	1.00000	0.00	5.179	68.72
	20	0.033106	0.84090	0.25	4.118	72.84
	25	0.027839	0.70711	0.50	3.180	76.02
	30	0.023410	0.59460	0.75	2.408	78.43
Medium Sand	35	0.019685	0.50000	1.00	1.735	80.16
	40	0.016553	0.42045	1.25	1.304	81.47
	45	0.013919	0.35355	1.50	1.219	82.69
	50	0.011705	0.29730	1.75	1.311	84.00
Fine Sand	60	0.009843	0.25000	2.00	1.200	85.20
	70	0.008277	0.21022	2.25	0.822	86.02
	80	0.006960	0.17678	2.50	0.570	86.59
	100	0.005852	0.14865	2.75	0.708	87.30
V. Fine Sand	120	0.004921	0.12500	3.00	0.986	88.29
	140	0.004138	0.10511	3.25	1.037	89.32
	170	0.003480	0.08839	3.50	0.887	90.21
	200	0.002926	0.07433	3.75	0.758	90.97
Silt	230	0.002461	0.06250	4.00	0.733	91.70
	270	0.002069	0.05256	4.25	0.748	92.45
	325	0.001740	0.04419	4.50	0.721	93.17
	400	0.001463	0.03716	4.75	0.652	93.82
	450	0.001230	0.03125	5.00	0.598	94.42
	500	0.001035	0.02628	5.25	0.566	94.99
	635	0.000870	0.02210	5.50	0.534	95.52
		0.000732	0.01858	5.75	0.493	96.01
		0.000615	0.01562	6.00	0.453	96.47
		0.000517	0.01314	6.25	0.414	96.88
		0.000435	0.01105	6.50	0.369	97.25
		0.000366	0.00929	6.75	0.326	97.57
		0.000308	0.00781	7.00	0.290	97.86
Clay		0.000259	0.00657	7.25	0.259	98.12
		0.000217	0.00552	7.50	0.234	98.36
		0.000183	0.00465	7.75	0.212	98.57
		0.000154	0.00391	8.00	0.194	98.76
		0.000129	0.00328	8.25	0.177	98.94
		0.000109	0.00276	8.50	0.161	99.10
		0.000091	0.00232	8.75	0.145	99.25
		0.000077	0.00195	9.00	0.129	99.38
		0.000065	0.00164	9.25	0.115	99.49
		0.000054	0.00138	9.50	0.103	99.59
		0.000046	0.00116	9.75	0.092	99.68
		0.000038	0.00098	10.00	0.082	99.77
		0.000032	0.00082	10.25	0.071	99.84
	0.000027	0.00069	10.50	0.060	99.90	
	0.000023	0.00058	10.75	0.047	99.94	
	0.000019	0.00049	11.00	0.033	99.98	
	0.000016	0.00041	11.25	0.018	100.00	
	0.000015	0.00038	11.50	0.004	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0681	0.0681	0.0681	
(mm)	1.7306	1.7306	1.7306	
Mean	Very coarse sand sized			
(in)	0.1022	0.0562	0.0600	
(mm)	2.5954	1.4285	1.5229	
Sorting	Very poor			
	2.433	2.265	2.457	
Skewness	Finely skewed			
	1.055	0.740	0.253	
Kurtosis	Lepokurtic			
	0.217	0.930	1.397	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
44.83	46.87	7.06	1.24	8.30
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.4418	11.2210	-3.4881	
10	0.3383	8.5929	-3.1031	
16	0.2703	6.8656	-2.7794	
25	0.1748	4.4406	-2.1508	
40	0.0904	2.2973	-1.1999	
50	0.0681	1.7306	-0.7913	
70	0.0374	0.9507	0.0729	
75	0.0295	0.7501	0.4149	
84	0.0117	0.2972	1.7503	
90	0.0036	0.0923	3.4369	
95	0.0010	0.0262	5.2563	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



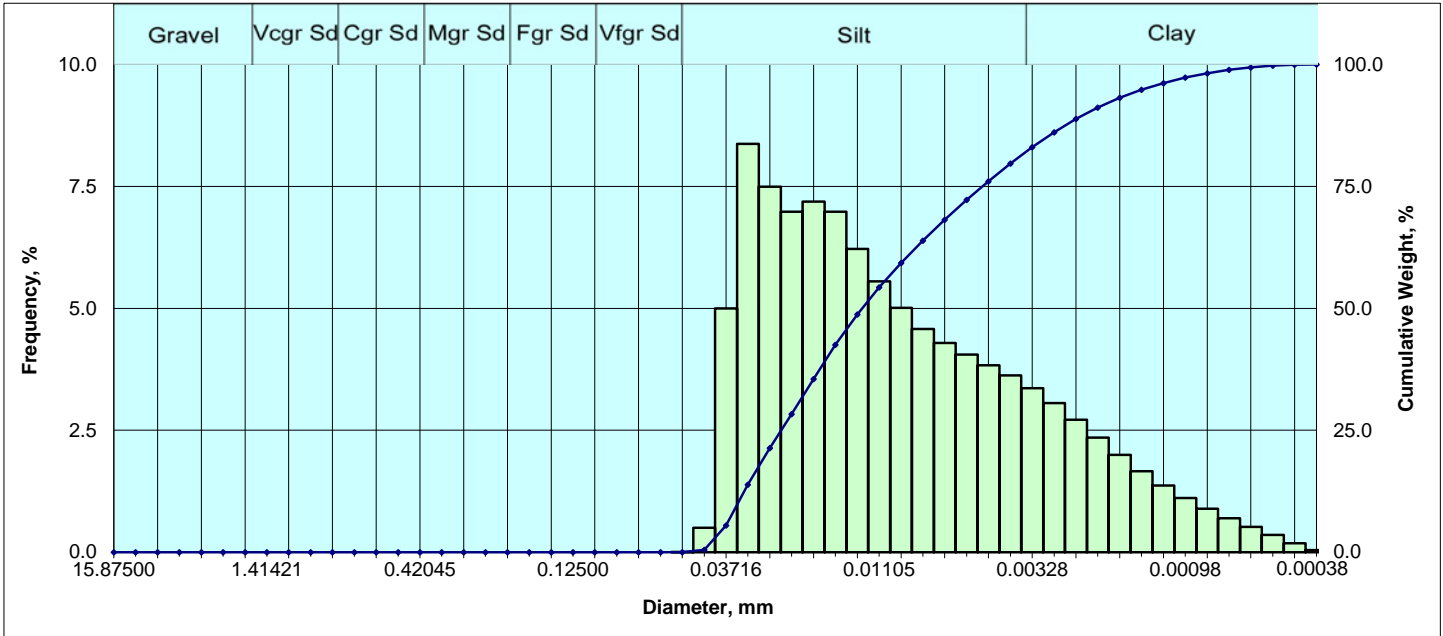
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	11.926	11.93
	4	0.187008	4.75000	-2.25	0.461	12.39
	6	0.131890	3.35000	-1.75	0.669	13.06
	8	0.092913	2.36000	-1.25	2.122	15.18
V Crse Sand	10	0.078740	2.00000	-1.00	2.099	17.28
	12	0.066212	1.68179	-0.75	5.453	22.73
	14	0.055678	1.41421	-0.50	5.477	28.21
	16	0.046819	1.18921	-0.25	5.154	33.36
Coarse Sand	18	0.039370	1.00000	0.00	4.609	37.97
	20	0.033106	0.84090	0.25	3.986	41.96
	25	0.027839	0.70711	0.50	3.418	45.37
Medium Sand	30	0.023410	0.59460	0.75	3.039	48.41
	35	0.019685	0.50000	1.00	2.840	51.25
	40	0.016553	0.42045	1.25	2.708	53.96
	45	0.013919	0.35355	1.50	2.633	56.59
Fine Sand	50	0.011705	0.29730	1.75	2.723	59.32
	60	0.009843	0.25000	2.00	2.987	62.30
	70	0.008277	0.21022	2.25	3.280	65.59
	80	0.006960	0.17678	2.50	3.509	69.09
V. Fine Sand	100	0.005852	0.14865	2.75	3.778	72.87
	120	0.004921	0.12500	3.00	3.925	76.80
	140	0.004138	0.10511	3.25	3.703	80.50
	170	0.003480	0.08839	3.50	3.111	83.61
Silt	200	0.002926	0.07433	3.75	2.409	86.02
	230	0.002461	0.06250	4.00	1.812	87.83
	270	0.002069	0.05256	4.25	1.373	89.21
	325	0.001740	0.04419	4.50	1.081	90.29
	400	0.001463	0.03716	4.75	0.916	91.20
	450	0.001230	0.03125	5.00	0.820	92.02
	500	0.001035	0.02628	5.25	0.740	92.76
	635	0.000870	0.02210	5.50	0.660	93.42
		0.000732	0.01858	5.75	0.595	94.02
		0.000615	0.01562	6.00	0.551	94.57
Clay		0.000517	0.01314	6.25	0.516	95.09
		0.000435	0.01105	6.50	0.479	95.56
		0.000366	0.00929	6.75	0.444	96.01
		0.000308	0.00781	7.00	0.413	96.42
		0.000259	0.00657	7.25	0.386	96.81
		0.000217	0.00552	7.50	0.362	97.17
		0.000183	0.00465	7.75	0.340	97.51
		0.000154	0.00391	8.00	0.321	97.83
		0.000129	0.00328	8.25	0.300	98.13
		0.000109	0.00276	8.50	0.278	98.41
		0.000091	0.00232	8.75	0.256	98.66
		0.000077	0.00195	9.00	0.233	98.90
		0.000065	0.00164	9.25	0.211	99.11
		0.000054	0.00138	9.50	0.188	99.30
		0.000046	0.00116	9.75	0.167	99.46
	0.000038	0.00098	10.00	0.145	99.61	
	0.000032	0.00082	10.25	0.124	99.73	
	0.000027	0.00069	10.50	0.101	99.83	
	0.000023	0.00058	10.75	0.078	99.91	
	0.000019	0.00049	11.00	0.054	99.96	
	0.000016	0.00041	11.25	0.028	99.99	
	0.000015	0.00038	11.50	0.007	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Coarse sand sized			
(in)	0.0213	0.0213	0.0213	
(mm)	0.5417	0.5417	0.5417	
Mean	Medium sand sized			
(in)	0.0336	0.0172	0.0185	
(mm)	0.8534	0.4372	0.4696	
Sorting	Very poor			
	3.401	2.344	2.676	
Skewness	Finely skewed			
	0.853	0.152	0.102	
Kurtosis	Lepokurtic			
	0.068	1.118	1.152	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
17.28	70.56	10.00	2.17	12.17
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.5198	13.2023	-3.7227	
10	0.4146	10.5296	-3.3964	
16	0.0874	2.2192	-1.1500	
25	0.0618	1.5710	-0.6516	
40	0.0362	0.9190	0.1219	
50	0.0213	0.5417	0.8844	
70	0.0067	0.1700	2.5561	
75	0.0053	0.1358	2.8801	
84	0.0034	0.0861	3.5375	
90	0.0018	0.0464	4.4294	
95	0.0005	0.0135	6.2057	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



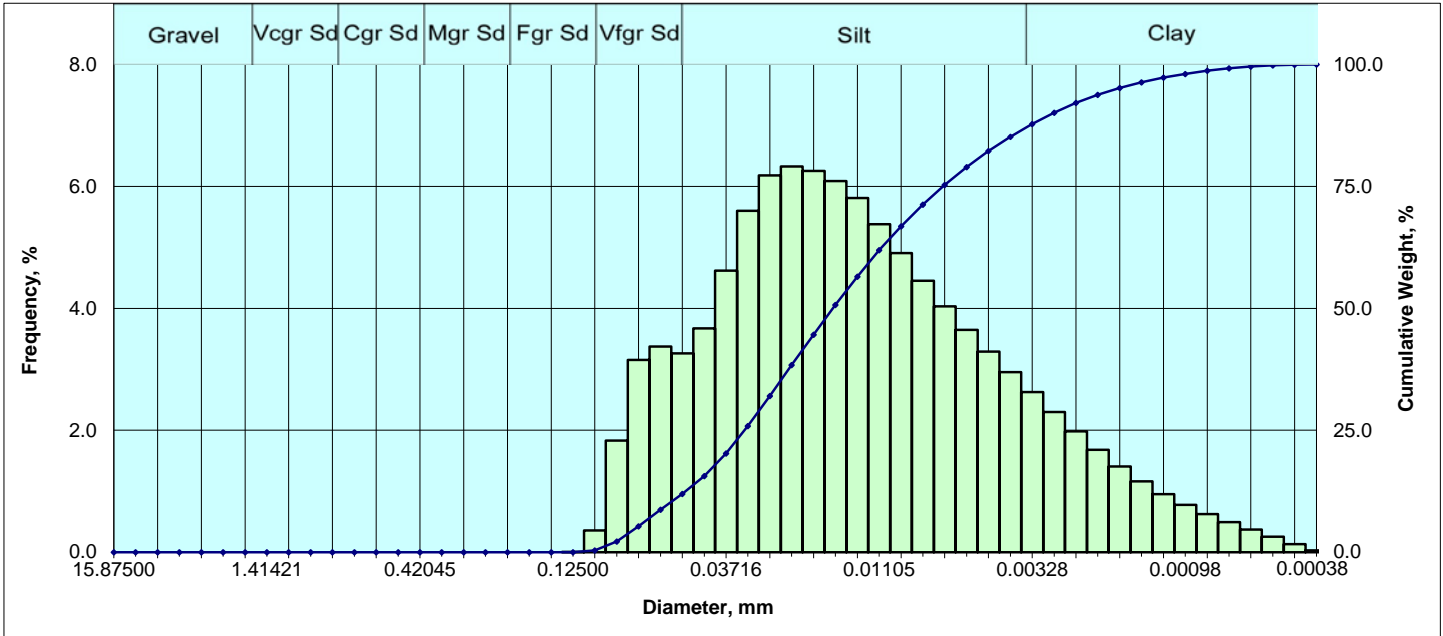
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.001	0.00
	325	0.001740	0.04419	4.50	0.500	0.50
	400	0.001463	0.03716	4.75	4.999	5.50
	450	0.001230	0.03125	5.00	8.374	13.87
	500	0.001035	0.02628	5.25	7.494	21.37
	635	0.000870	0.02210	5.50	6.982	28.35
		0.000732	0.01858	5.75	7.187	35.54
		0.000615	0.01562	6.00	6.979	42.52
		0.000517	0.01314	6.25	6.221	48.74
		0.000435	0.01105	6.50	5.556	54.29
		0.000366	0.00929	6.75	5.011	59.30
		0.000308	0.00781	7.00	4.578	63.88
	0.000259	0.00657	7.25	4.290	68.17	
	0.000217	0.00552	7.50	4.051	72.22	
	0.000183	0.00465	7.75	3.830	76.05	
	0.000154	0.00391	8.00	3.627	79.68	
Clay		0.000129	0.00328	8.25	3.363	83.04
		0.000109	0.00276	8.50	3.058	86.10
		0.000091	0.00232	8.75	2.716	88.82
		0.000077	0.00195	9.00	2.352	91.17
		0.000065	0.00164	9.25	1.996	93.17
		0.000054	0.00138	9.50	1.662	94.83
		0.000046	0.00116	9.75	1.365	96.19
		0.000038	0.00098	10.00	1.109	97.30
		0.000032	0.00082	10.25	0.892	98.19
		0.000027	0.00069	10.50	0.699	98.89
		0.000023	0.00058	10.75	0.522	99.42
		0.000019	0.00049	11.00	0.354	99.77
		0.000016	0.00041	11.25	0.186	99.96
		0.000015	0.00038	11.50	0.045	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0127	0.0127	0.0127	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0145	0.0097	0.0106	
Sorting	Poor			
	2.221	1.629	1.542	
Skewness	Finely skewed			
	0.857	0.505	0.292	
Kurtosis	Platykurtic			
	0.302	0.476	0.856	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	79.68	20.32	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0015	0.0379	4.7230
10		0.0013	0.0340	4.8790
16		0.0012	0.0298	5.0666
25		0.0009	0.0241	5.3746
40		0.0007	0.0167	5.9048
50		0.0005	0.0127	6.3031
70		0.0002	0.0061	7.3575
75		0.0002	0.0049	7.6768
84		0.0001	0.0031	8.3237
90		0.0001	0.0021	8.8703
95		0.0001	0.0014	9.5293

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



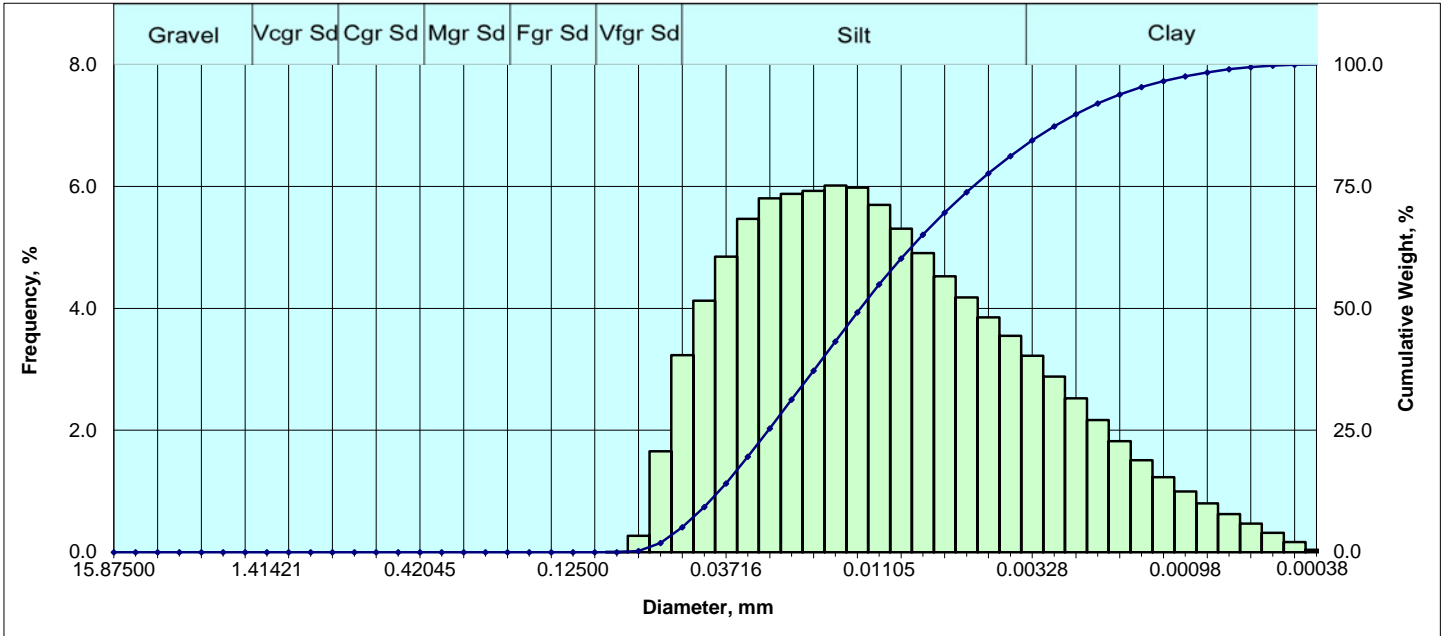
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.006	0.01
	140	0.004138	0.10511	3.25	0.355	0.36
	170	0.003480	0.08839	3.50	1.833	2.19
	200	0.002926	0.07433	3.75	3.156	5.35
Silt	230	0.002461	0.06250	4.00	3.373	8.72
	270	0.002069	0.05256	4.25	3.262	11.99
	325	0.001740	0.04419	4.50	3.673	15.66
	400	0.001463	0.03716	4.75	4.621	20.28
	450	0.001230	0.03125	5.00	5.598	25.88
	500	0.001035	0.02628	5.25	6.179	32.06
	635	0.000870	0.02210	5.50	6.329	38.39
		0.000732	0.01858	5.75	6.256	44.64
		0.000615	0.01562	6.00	6.088	50.73
		0.000517	0.01314	6.25	5.808	56.54
		0.000435	0.01105	6.50	5.379	61.92
Clay		0.000366	0.00929	6.75	4.907	66.82
		0.000308	0.00781	7.00	4.452	71.28
		0.000259	0.00657	7.25	4.032	75.31
		0.000217	0.00552	7.50	3.647	78.96
		0.000183	0.00465	7.75	3.289	82.24
		0.000154	0.00391	8.00	2.956	85.20
		0.000129	0.00328	8.25	2.626	87.83
		0.000109	0.00276	8.50	2.300	90.13
		0.000091	0.00232	8.75	1.983	92.11
		0.000077	0.00195	9.00	1.682	93.79
		0.000065	0.00164	9.25	1.405	95.20
		0.000054	0.00138	9.50	1.162	96.36
		0.000046	0.00116	9.75	0.953	97.31
		0.000038	0.00098	10.00	0.776	98.09
		0.000032	0.00082	10.25	0.628	98.71
	0.000027	0.00069	10.50	0.495	99.21	
	0.000023	0.00058	10.75	0.372	99.58	
	0.000019	0.00049	11.00	0.254	99.83	
	0.000016	0.00041	11.25	0.133	99.97	
	0.000015	0.00038	11.50	0.033	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0160	0.0160	0.0160	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0006	
(mm)	0.0194	0.0136	0.0143	
Sorting	Poor			
	2.197	1.688	1.676	
Skewness	Finely skewed			
	0.916	0.295	0.161	
Kurtosis	Mesokurtic			
	0.229	0.627	0.991	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	8.72	76.48	14.80	91.28
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0030	0.0759	3.7200	
10	0.0023	0.0586	4.0927	
16	0.0017	0.0437	4.5171	
25	0.0013	0.0322	4.9578	
40	0.0008	0.0212	5.5605	
50	0.0006	0.0160	5.9677	
70	0.0003	0.0082	6.9238	
75	0.0003	0.0067	7.2293	
84	0.0002	0.0042	7.8932	
90	0.0001	0.0028	8.4852	
95	0.0001	0.0017	9.2126	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



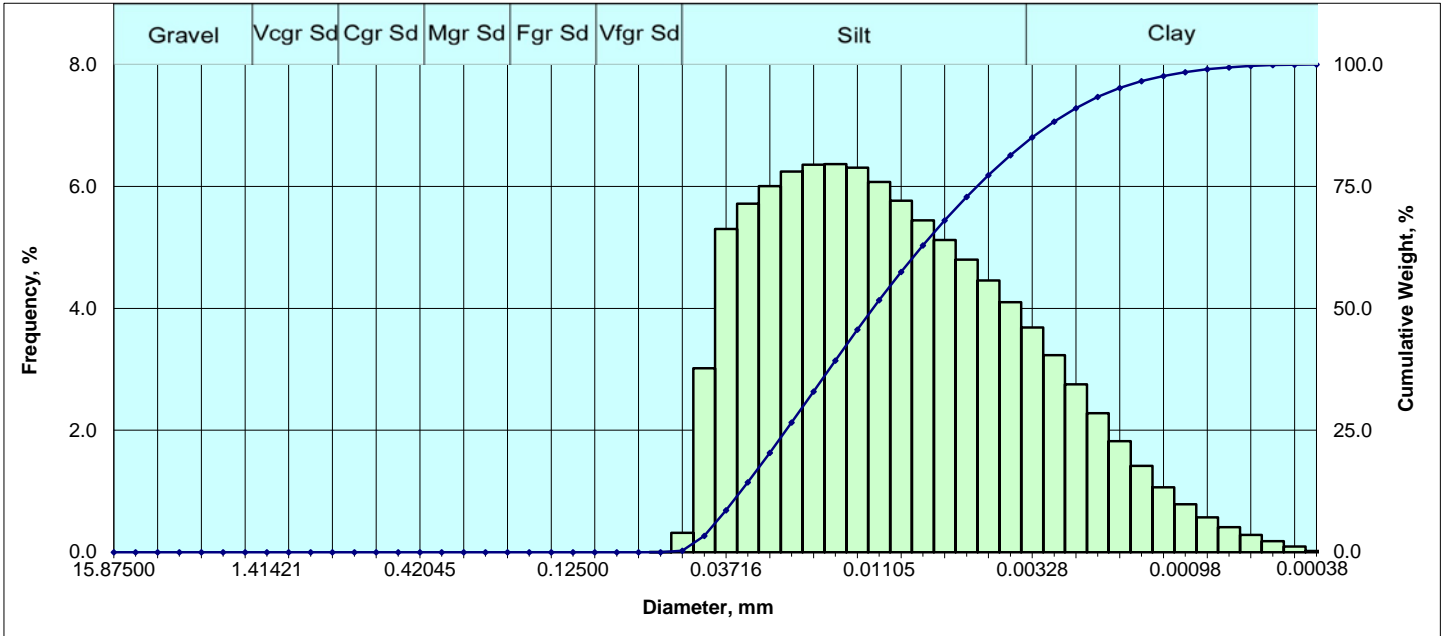
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.005	0.00
	200	0.002926	0.07433	3.75	0.271	0.28
Silt	230	0.002461	0.06250	4.00	1.655	1.93
	270	0.002069	0.05256	4.25	3.230	5.16
	325	0.001740	0.04419	4.50	4.124	9.29
	400	0.001463	0.03716	4.75	4.846	14.13
	450	0.001230	0.03125	5.00	5.468	19.60
	500	0.001035	0.02628	5.25	5.805	25.40
	635	0.000870	0.02210	5.50	5.879	31.28
		0.000732	0.01858	5.75	5.928	37.21
		0.000615	0.01562	6.00	6.014	43.23
		0.000517	0.01314	6.25	5.982	49.21
		0.000435	0.01105	6.50	5.698	54.90
		0.000366	0.00929	6.75	5.307	60.21
		0.000308	0.00781	7.00	4.904	65.12
	0.000259	0.00657	7.25	4.524	69.64	
	0.000217	0.00552	7.50	4.177	73.82	
	0.000183	0.00465	7.75	3.853	77.67	
	0.000154	0.00391	8.00	3.547	81.22	
Clay		0.000129	0.00328	8.25	3.225	84.44
		0.000109	0.00276	8.50	2.882	87.32
		0.000091	0.00232	8.75	2.525	89.85
		0.000077	0.00195	9.00	2.167	92.02
		0.000065	0.00164	9.25	1.823	93.84
		0.000054	0.00138	9.50	1.509	95.35
		0.000046	0.00116	9.75	1.233	96.58
		0.000038	0.00098	10.00	0.998	97.58
		0.000032	0.00082	10.25	0.801	98.38
		0.000027	0.00069	10.50	0.627	99.01
		0.000023	0.00058	10.75	0.468	99.48
		0.000019	0.00049	11.00	0.317	99.79
		0.000016	0.00041	11.25	0.167	99.96
		0.000015	0.00038	11.50	0.041	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0128	0.0128	0.0128	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0005	
(mm)	0.0159	0.0109	0.0115	
Sorting	Poor			
	2.251	1.691	1.634	
Skewness	Finely skewed			
	0.921	0.328	0.178	
Kurtosis	Mesokurtic			
	0.261	0.538	0.911	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	1.93	79.28	18.78	98.07
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0021	0.0531	4.2364	
10	0.0017	0.0432	4.5342	
16	0.0014	0.0351	4.8307	
25	0.0010	0.0266	5.2311	
40	0.0007	0.0172	5.8606	
50	0.0005	0.0128	6.2823	
70	0.0003	0.0065	7.2700	
75	0.0002	0.0053	7.5723	
84	0.0001	0.0034	8.2132	
90	0.0001	0.0023	8.7662	
95	0.0001	0.0014	9.4385	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



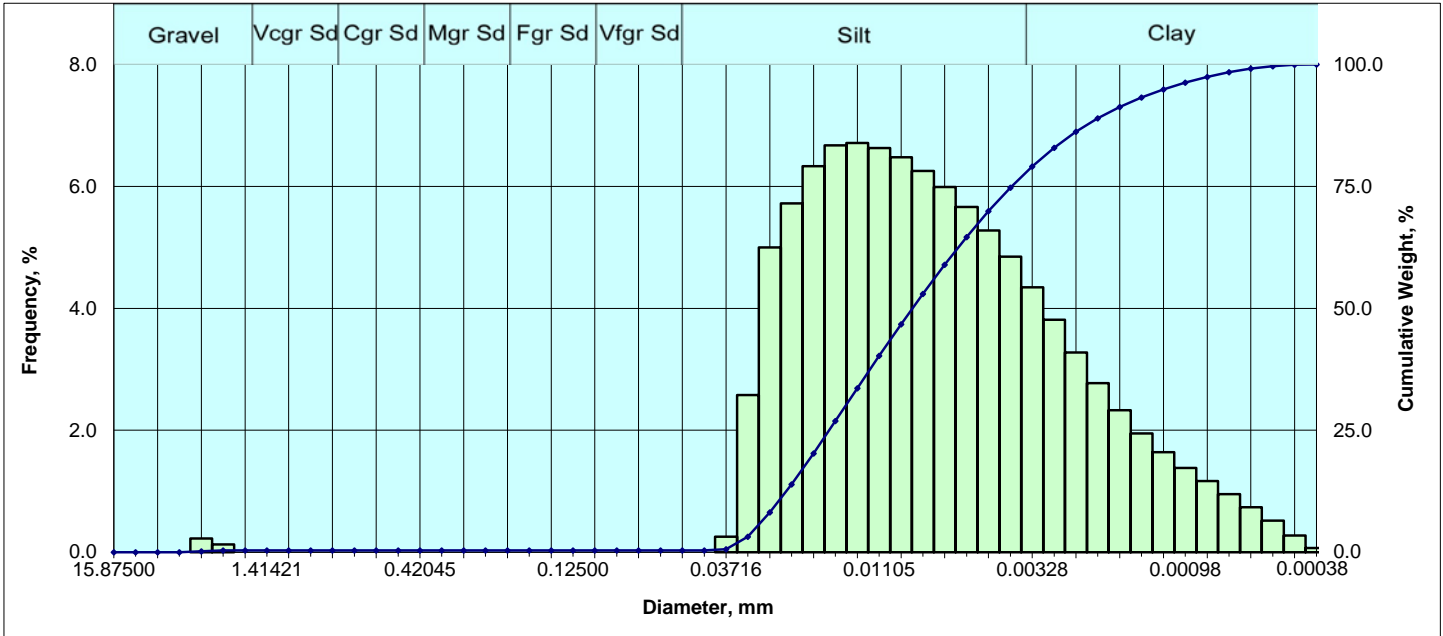
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.005	0.00
	270	0.002069	0.05256	4.25	0.320	0.32
	325	0.001740	0.04419	4.50	3.018	3.34
	400	0.001463	0.03716	4.75	5.301	8.64
	450	0.001230	0.03125	5.00	5.716	14.36
	500	0.001035	0.02628	5.25	6.003	20.36
	635	0.000870	0.02210	5.50	6.243	26.61
		0.000732	0.01858	5.75	6.355	32.96
		0.000615	0.01562	6.00	6.366	39.33
		0.000517	0.01314	6.25	6.306	45.63
		0.000435	0.01105	6.50	6.075	51.71
	0.000366	0.00929	6.75	5.764	57.47	
	0.000308	0.00781	7.00	5.445	62.92	
	0.000259	0.00657	7.25	5.123	68.04	
	0.000217	0.00552	7.50	4.797	72.84	
	0.000183	0.00465	7.75	4.458	77.29	
	0.000154	0.00391	8.00	4.099	81.39	
Clay		0.000129	0.00328	8.25	3.687	85.08
		0.000109	0.00276	8.50	3.234	88.31
		0.000091	0.00232	8.75	2.756	91.07
		0.000077	0.00195	9.00	2.278	93.35
		0.000065	0.00164	9.25	1.824	95.17
		0.000054	0.00138	9.50	1.416	96.59
		0.000046	0.00116	9.75	1.066	97.65
		0.000038	0.00098	10.00	0.785	98.44
		0.000032	0.00082	10.25	0.572	99.01
		0.000027	0.00069	10.50	0.410	99.42
		0.000023	0.00058	10.75	0.283	99.70
		0.000019	0.00049	11.00	0.181	99.89
		0.000016	0.00041	11.25	0.092	99.98
		0.000015	0.00038	11.50	0.022	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0116	0.0116	0.0116	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0141	0.0102	0.0106	
Sorting	Poor			
	2.132	1.554	1.482	
Skewness	Finely skewed			
	0.934	0.305	0.164	
Kurtosis	Platykurtic			
	0.272	0.496	0.873	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	81.39	18.61	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0017	0.0420	4.5736
10		0.0014	0.0358	4.8055
16		0.0012	0.0299	5.0641
25		0.0009	0.0232	5.4314
40		0.0006	0.0154	6.0247
50		0.0005	0.0116	6.4253
70		0.0002	0.0061	7.3470
75		0.0002	0.0051	7.6160
84		0.0001	0.0035	8.1722
90		0.0001	0.0025	8.6477
95		0.0001	0.0017	9.2245

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



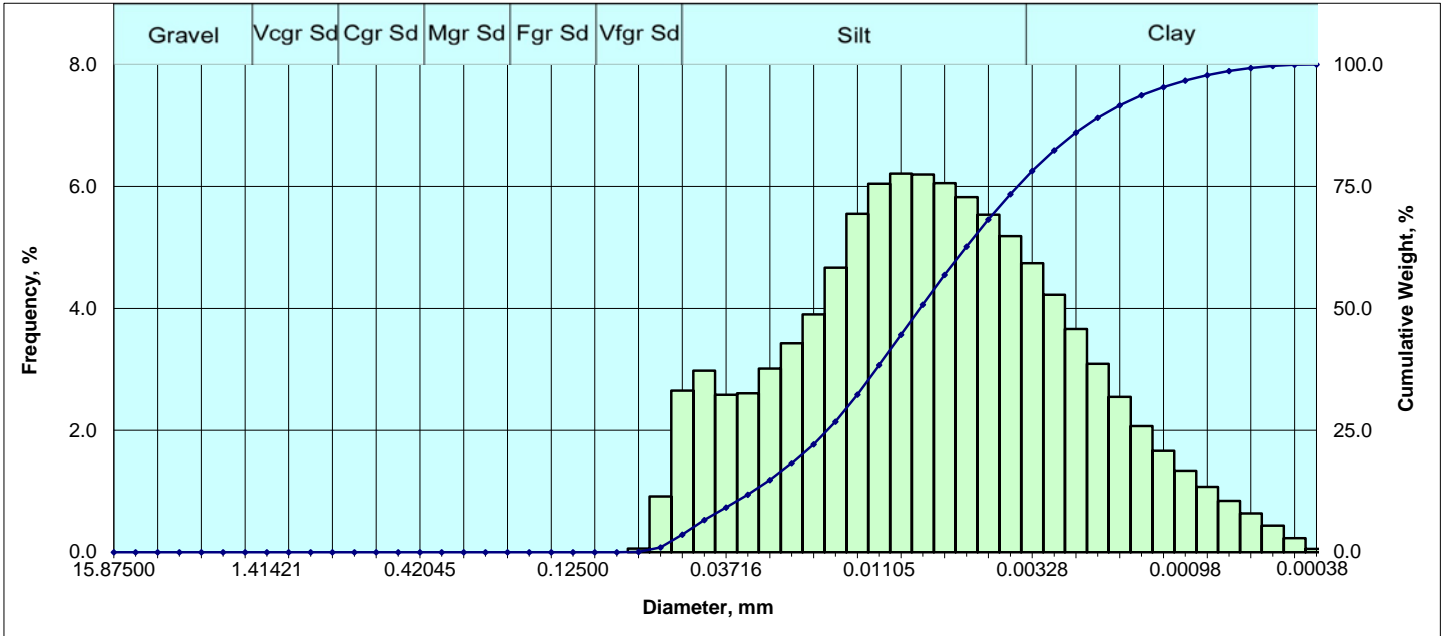
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.225	0.23
V Crse Sand	10	0.078740	2.00000	-1.00	0.129	0.35
	12	0.066212	1.68179	-0.75	0.000	0.35
	14	0.055678	1.41421	-0.50	0.000	0.35
	16	0.046819	1.18921	-0.25	0.000	0.35
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.35
	20	0.033106	0.84090	0.25	0.000	0.35
	25	0.027839	0.70711	0.50	0.000	0.35
	30	0.023410	0.59460	0.75	0.000	0.35
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.35
	40	0.016553	0.42045	1.25	0.000	0.35
	45	0.013919	0.35355	1.50	0.000	0.35
	50	0.011705	0.29730	1.75	0.000	0.35
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.35
	70	0.008277	0.21022	2.25	0.000	0.35
	80	0.006960	0.17678	2.50	0.000	0.35
	100	0.005852	0.14865	2.75	0.000	0.35
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.35
	140	0.004138	0.10511	3.25	0.000	0.35
	170	0.003480	0.08839	3.50	0.000	0.35
	200	0.002926	0.07433	3.75	0.000	0.35
Silt	230	0.002461	0.06250	4.00	0.000	0.35
	270	0.002069	0.05256	4.25	0.000	0.35
	325	0.001740	0.04419	4.50	0.000	0.35
	400	0.001463	0.03716	4.75	0.257	0.61
	450	0.001230	0.03125	5.00	2.579	3.19
	500	0.001035	0.02628	5.25	4.997	8.19
	635	0.000870	0.02210	5.50	5.722	13.91
		0.000732	0.01858	5.75	6.333	20.24
		0.000615	0.01562	6.00	6.673	28.91
		0.000517	0.01314	6.25	6.711	33.63
		0.000435	0.01105	6.50	6.629	40.25
		0.000366	0.00929	6.75	6.477	46.73
		0.000308	0.00781	7.00	6.255	52.99
	0.000259	0.00657	7.25	5.990	58.98	
	0.000217	0.00552	7.50	5.664	64.64	
	0.000183	0.00465	7.75	5.277	69.92	
	0.000154	0.00391	8.00	4.846	74.76	
Clay		0.000129	0.00328	8.25	4.343	79.11
		0.000109	0.00276	8.50	3.811	82.92
		0.000091	0.00232	8.75	3.278	86.20
		0.000077	0.00195	9.00	2.776	88.97
		0.000065	0.00164	9.25	2.329	91.30
		0.000054	0.00138	9.50	1.951	93.25
		0.000046	0.00116	9.75	1.642	94.89
		0.000038	0.00098	10.00	1.385	96.28
		0.000032	0.00082	10.25	1.166	97.44
		0.000027	0.00069	10.50	0.955	98.40
		0.000023	0.00058	10.75	0.741	99.14
		0.000019	0.00049	11.00	0.517	99.66
		0.000016	0.00041	11.25	0.276	99.93
		0.000015	0.00038	11.50	0.067	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0085	0.0085	0.0085	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0102	0.0074	0.0078	
Sorting	Poor			
	2.062	1.500	1.459	
Skewness	Finely skewed			
	0.938	0.368	0.185	
Kurtosis	Mesokurtic			
	0.272	0.561	0.919	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.35	0.00	74.41	25.24	99.65
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0012	0.0294	5.0856	
10	0.0010	0.0250	5.3246	
16	0.0008	0.0209	5.5779	
25	0.0006	0.0165	5.9237	
40	0.0004	0.0111	6.4896	
50	0.0003	0.0085	6.8752	
70	0.0002	0.0046	7.7539	
75	0.0002	0.0039	8.0125	
84	0.0001	0.0026	8.5778	
90	0.0001	0.0018	9.1051	
95	0.0000	0.0011	9.7678	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



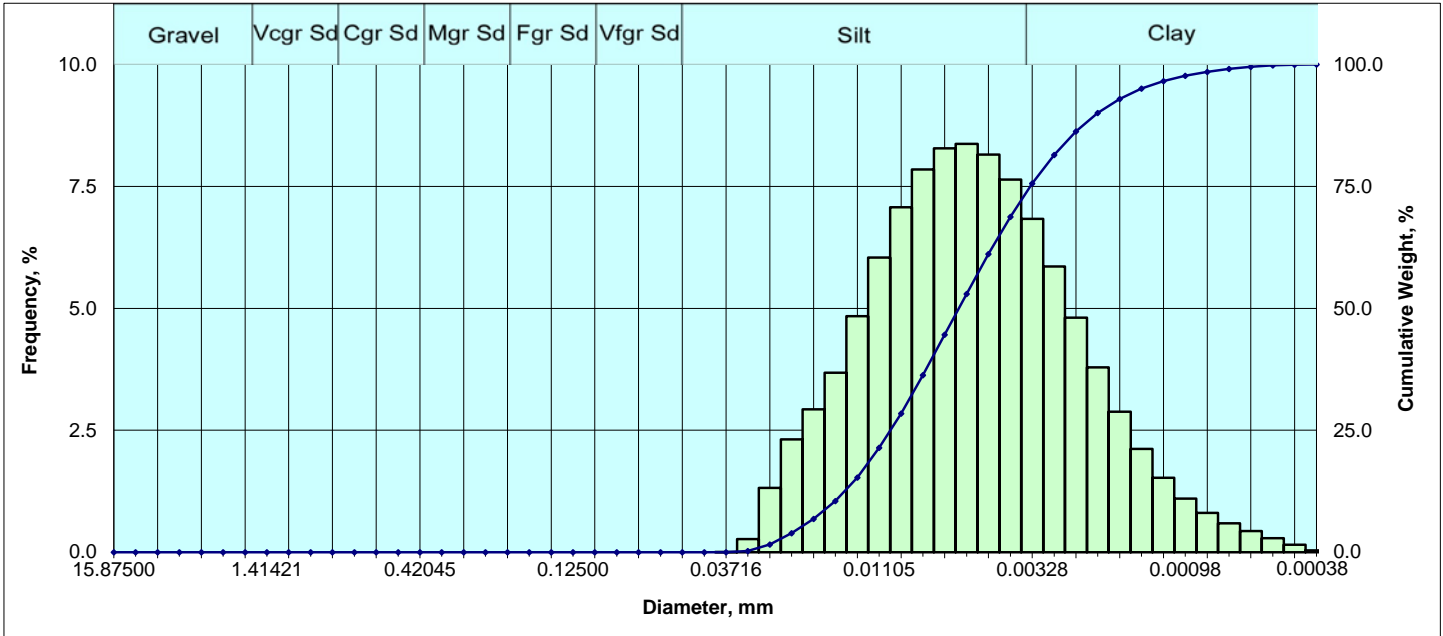
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.060	0.06
Silt	230	0.002461	0.06250	4.00	0.913	0.97
	270	0.002069	0.05256	4.25	2.652	3.63
	325	0.001740	0.04419	4.50	2.977	6.60
	400	0.001463	0.03716	4.75	2.583	9.19
	450	0.001230	0.03125	5.00	2.607	11.79
	500	0.001035	0.02628	5.25	3.013	14.81
	635	0.000870	0.02210	5.50	3.429	18.23
		0.000732	0.01858	5.75	3.903	22.14
		0.000615	0.01562	6.00	4.667	26.80
		0.000517	0.01314	6.25	5.549	32.35
		0.000435	0.01105	6.50	6.041	38.39
		0.000366	0.00929	6.75	6.209	44.60
		0.000308	0.00781	7.00	6.195	50.80
	0.000259	0.00657	7.25	6.051	56.85	
	0.000217	0.00552	7.50	5.826	62.68	
	0.000183	0.00465	7.75	5.536	68.21	
	0.000154	0.00391	8.00	5.186	73.40	
Clay		0.000129	0.00328	8.25	4.741	78.14
		0.000109	0.00276	8.50	4.225	82.36
		0.000091	0.00232	8.75	3.662	86.02
		0.000077	0.00195	9.00	3.092	89.12
		0.000065	0.00164	9.25	2.550	91.67
		0.000054	0.00138	9.50	2.070	93.74
		0.000046	0.00116	9.75	1.664	95.40
		0.000038	0.00098	10.00	1.333	96.73
		0.000032	0.00082	10.25	1.070	97.80
		0.000027	0.00069	10.50	0.842	98.65
		0.000023	0.00058	10.75	0.634	99.28
		0.000019	0.00049	11.00	0.434	99.71
		0.000016	0.00041	11.25	0.230	99.94
		0.000015	0.00038	11.50	0.056	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0080	0.0080	0.0080	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0102	0.0080	0.0080	
Sorting	Poor			
	2.130	1.637	1.625	
Skewness	Near symmetrical			
	0.984	0.035	0.012	
Kurtosis	Mesokurtic			
	0.195	0.627	1.000	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.97	72.42	26.60	99.03
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0019	0.0487	4.3601	
10	0.0014	0.0353	4.8236	
16	0.0010	0.0248	5.3322	
25	0.0007	0.0168	5.8981	
40	0.0004	0.0106	6.5606	
50	0.0003	0.0080	6.9652	
70	0.0002	0.0044	7.8314	
75	0.0001	0.0037	8.0798	
84	0.0001	0.0026	8.6064	
90	0.0001	0.0018	9.0818	
95	0.0000	0.0012	9.6857	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



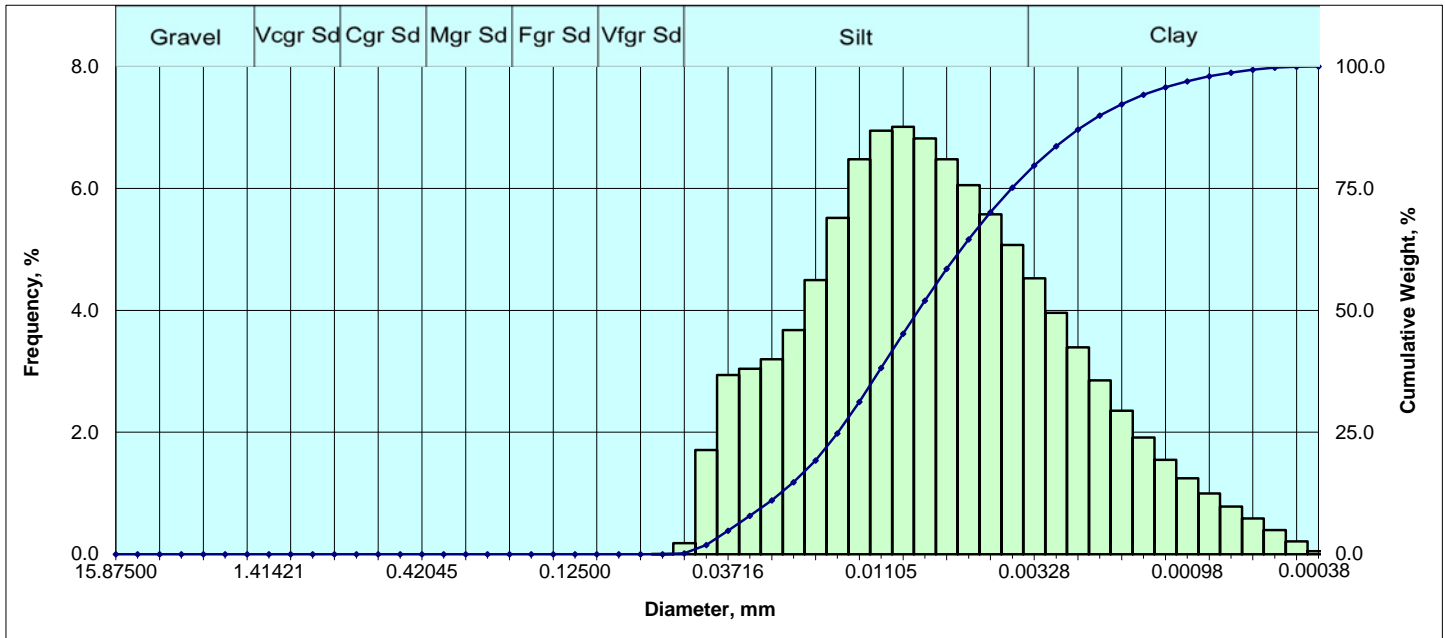
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.000	0.00
	400	0.001463	0.03716	4.75	0.005	0.01
	450	0.001230	0.03125	5.00	0.272	0.28
	500	0.001035	0.02628	5.25	1.316	1.59
	635	0.000870	0.02210	5.50	2.315	3.91
		0.000732	0.01858	5.75	2.929	6.84
		0.000615	0.01562	6.00	3.680	10.52
		0.000517	0.01314	6.25	4.840	15.36
		0.000435	0.01105	6.50	6.041	21.40
		0.000366	0.00929	6.75	7.075	28.47
Clay		0.000308	0.00781	7.00	7.849	36.32
		0.000259	0.00657	7.25	8.281	44.60
		0.000217	0.00552	7.50	8.375	52.98
		0.000183	0.00465	7.75	8.154	61.13
		0.000154	0.00391	8.00	7.640	68.77
		0.000129	0.00328	8.25	6.833	75.60
		0.000109	0.00276	8.50	5.856	81.46
		0.000091	0.00232	8.75	4.808	86.27
		0.000077	0.00195	9.00	3.791	90.06
		0.000065	0.00164	9.25	2.879	92.94
		0.000054	0.00138	9.50	2.121	95.06
		0.000046	0.00116	9.75	1.526	96.59
		0.000038	0.00098	10.00	1.098	97.68
		0.000032	0.00082	10.25	0.806	98.49
		0.000027	0.00069	10.50	0.596	99.09
	0.000023	0.00058	10.75	0.432	99.52	
	0.000019	0.00049	11.00	0.291	99.81	
	0.000016	0.00041	11.25	0.154	99.96	
	0.000015	0.00038	11.50	0.038	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0059	0.0059	0.0059	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0067	0.0057	0.0058	
Sorting	Poor			
	1.744	1.176	1.180	
Skewness	Near symmetrical			
	0.988	0.114	0.053	
Kurtosis	Mesokurtic			
	0.242	0.660	0.997	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	68.77	31.23	100.00
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0008	0.0208	5.5882	
10	0.0006	0.0160	5.9621	
16	0.0005	0.0129	6.2746	
25	0.0004	0.0102	6.6218	
40	0.0003	0.0073	7.1057	
50	0.0002	0.0059	7.4060	
70	0.0001	0.0038	8.0419	
75	0.0001	0.0033	8.2260	
84	0.0001	0.0025	8.6266	
90	0.0001	0.0020	8.9957	
95	0.0001	0.0014	9.4923	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



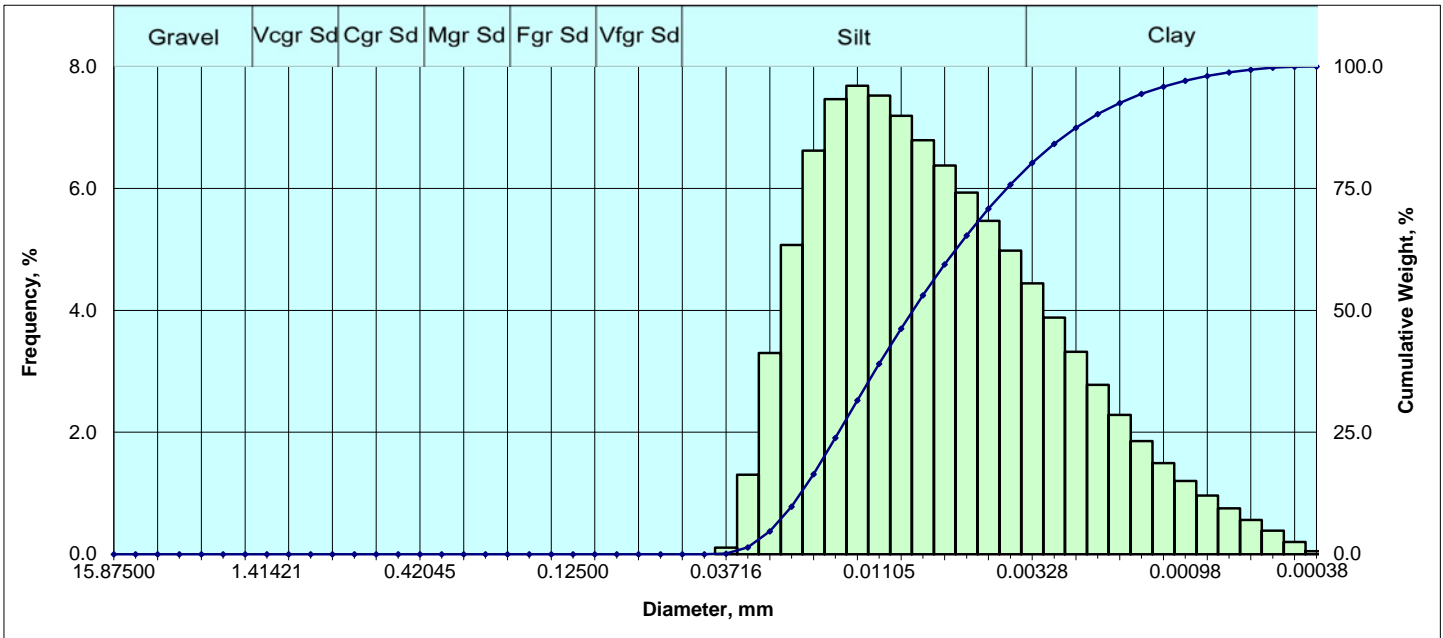
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.003	0.00
	270	0.002069	0.05256	4.25	0.181	0.18
	325	0.001740	0.04419	4.50	1.712	1.90
	400	0.001463	0.03716	4.75	2.940	4.84
	450	0.001230	0.03125	5.00	3.042	7.88
	500	0.001035	0.02628	5.25	3.200	11.08
	635	0.000870	0.02210	5.50	3.674	14.75
		0.000732	0.01858	5.75	4.495	19.25
		0.000615	0.01562	6.00	5.519	24.77
		0.000517	0.01314	6.25	6.478	31.24
		0.000435	0.01105	6.50	6.948	38.19
		0.000366	0.00929	6.75	7.008	45.20
		0.000308	0.00781	7.00	6.819	52.02
	0.000259	0.00657	7.25	6.477	58.50	
	0.000217	0.00552	7.50	6.051	64.55	
	0.000183	0.00465	7.75	5.576	70.12	
	0.000154	0.00391	8.00	5.071	75.19	
Clay		0.000129	0.00328	8.25	4.524	79.72
		0.000109	0.00276	8.50	3.958	83.68
		0.000091	0.00232	8.75	3.392	87.07
		0.000077	0.00195	9.00	2.850	89.92
		0.000065	0.00164	9.25	2.351	92.27
		0.000054	0.00138	9.50	1.916	94.18
		0.000046	0.00116	9.75	1.548	95.73
		0.000038	0.00098	10.00	1.243	96.98
		0.000032	0.00082	10.25	0.997	97.97
		0.000027	0.00069	10.50	0.782	98.75
		0.000023	0.00058	10.75	0.586	99.34
		0.000019	0.00049	11.00	0.399	99.74
		0.000016	0.00041	11.25	0.210	99.95
		0.000015	0.00038	11.50	0.051	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0082	0.0082	0.0082	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0097	0.0076	0.0078	
Sorting	Poor			
	1.987	1.478	1.476	
Skewness	Near symmetrical			
	0.948	0.185	0.097	
Kurtosis	Mesokurtic			
	0.223	0.645	1.006	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	75.19	24.81	100.00
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0015	0.0368	4.7624	
10	0.0011	0.0280	5.1608	
16	0.0008	0.0211	5.5652	
25	0.0006	0.0155	6.0083	
40	0.0004	0.0106	6.5605	
50	0.0003	0.0082	6.9214	
70	0.0002	0.0047	7.7440	
75	0.0002	0.0039	7.9896	
84	0.0001	0.0027	8.5221	
90	0.0001	0.0019	9.0081	
95	0.0000	0.0013	9.6263	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



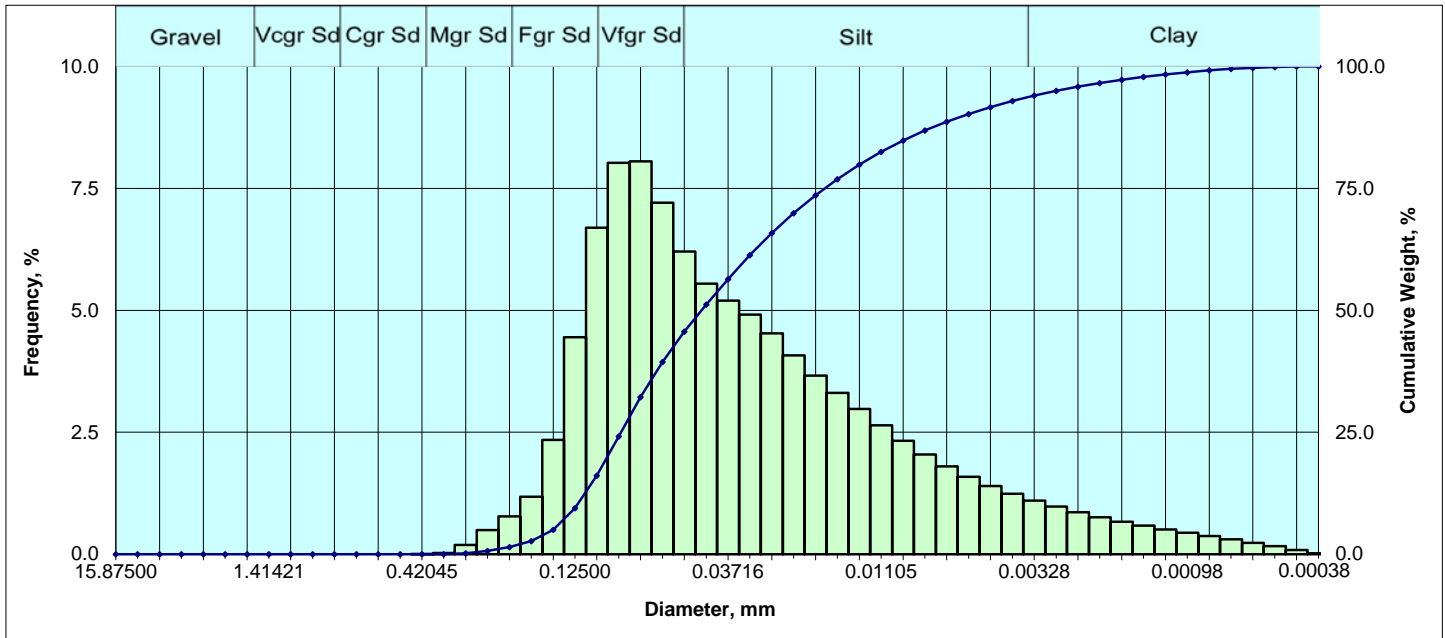
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.000	0.00
	400	0.001463	0.03716	4.75	0.111	0.11
	450	0.001230	0.03125	5.00	1.304	1.41
	500	0.001035	0.02628	5.25	3.302	4.72
	635	0.000870	0.02210	5.50	5.074	9.79
		0.000732	0.01858	5.75	6.618	16.41
		0.000615	0.01562	6.00	7.464	23.87
		0.000517	0.01314	6.25	7.685	31.56
		0.000435	0.01105	6.50	7.523	39.08
		0.000366	0.00929	6.75	7.190	46.27
		0.000308	0.00781	7.00	6.793	53.06
	0.000259	0.00657	7.25	6.375	59.44	
	0.000217	0.00552	7.50	5.933	65.37	
	0.000183	0.00465	7.75	5.465	70.84	
	0.000154	0.00391	8.00	4.979	75.82	
Clay		0.000129	0.00328	8.25	4.442	80.26
		0.000109	0.00276	8.50	3.883	84.14
		0.000091	0.00232	8.75	3.320	87.46
		0.000077	0.00195	9.00	2.780	90.24
		0.000065	0.00164	9.25	2.287	92.53
		0.000054	0.00138	9.50	1.858	94.39
		0.000046	0.00116	9.75	1.496	95.88
		0.000038	0.00098	10.00	1.201	97.08
		0.000032	0.00082	10.25	0.961	98.04
		0.000027	0.00069	10.50	0.754	98.80
		0.000023	0.00058	10.75	0.565	99.36
		0.000019	0.00049	11.00	0.384	99.75
		0.000016	0.00041	11.25	0.203	99.95
		0.000015	0.00038	11.50	0.049	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0085	0.0085	0.0085	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0096	0.0072	0.0076	
Sorting	Poor			
	1.947	1.378	1.346	
Skewness	Finely skewed			
	0.925	0.398	0.210	
Kurtosis	Mesokurtic			
	0.281	0.572	0.924	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	75.82	24.18	100.00
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0010	0.0260	5.2629	
10	0.0009	0.0220	5.5073	
16	0.0007	0.0188	5.7332	
25	0.0006	0.0153	6.0341	
40	0.0004	0.0108	6.5297	
50	0.0003	0.0085	6.8819	
70	0.0002	0.0048	7.7088	
75	0.0002	0.0040	7.9560	
84	0.0001	0.0028	8.4902	
90	0.0001	0.0020	8.9765	
95	0.0001	0.0013	9.5974	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



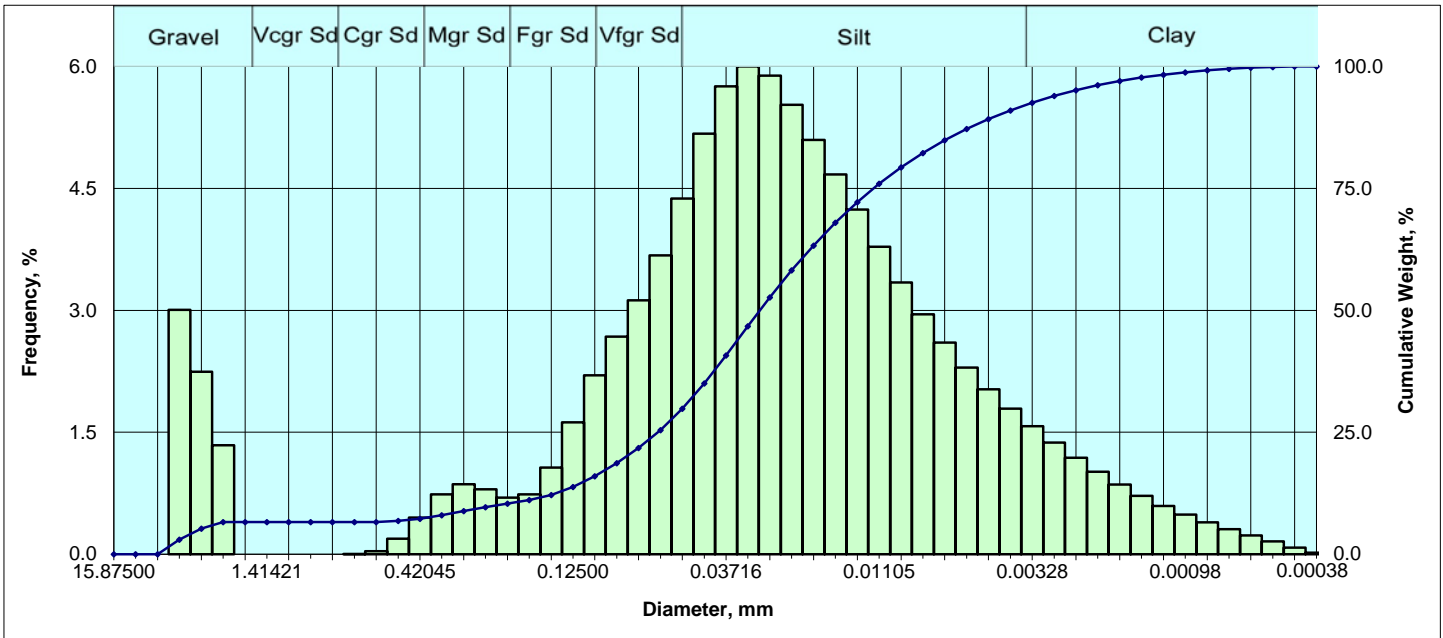
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.025	0.03
	50	0.011705	0.29730	1.75	0.192	0.22
Fine Sand	60	0.009843	0.25000	2.00	0.499	0.72
	70	0.008277	0.21022	2.25	0.779	1.49
	80	0.006960	0.17678	2.50	1.178	2.67
	100	0.005852	0.14865	2.75	2.342	5.01
V. Fine Sand	120	0.004921	0.12500	3.00	4.446	9.46
	140	0.004138	0.10511	3.25	6.692	16.15
	170	0.003480	0.08839	3.50	8.024	24.18
	200	0.002926	0.07433	3.75	8.057	32.23
Silt	230	0.002461	0.06250	4.00	7.208	39.44
	270	0.002069	0.05256	4.25	6.207	45.65
	325	0.001740	0.04419	4.50	5.548	51.20
	400	0.001463	0.03716	4.75	5.198	56.39
	450	0.001230	0.03125	5.00	4.910	61.30
	500	0.001035	0.02628	5.25	4.529	65.83
	635	0.000870	0.02210	5.50	4.078	69.91
		0.000732	0.01858	5.75	3.660	73.57
		0.000615	0.01562	6.00	3.309	76.88
		0.000517	0.01314	6.25	2.982	79.86
		0.000435	0.01105	6.50	2.646	82.51
		0.000366	0.00929	6.75	2.328	84.84
		0.000308	0.00781	7.00	2.045	86.88
	0.000259	0.00657	7.25	1.799	88.68	
	0.000217	0.00552	7.50	1.586	90.27	
	0.000183	0.00465	7.75	1.401	91.67	
	0.000154	0.00391	8.00	1.242	92.91	
Clay		0.000129	0.00328	8.25	1.102	94.01
		0.000109	0.00276	8.50	0.976	94.99
		0.000091	0.00232	8.75	0.863	95.85
		0.000077	0.00195	9.00	0.760	96.61
		0.000065	0.00164	9.25	0.667	97.28
		0.000054	0.00138	9.50	0.584	97.86
		0.000046	0.00116	9.75	0.511	98.37
		0.000038	0.00098	10.00	0.441	98.81
		0.000032	0.00082	10.25	0.374	99.19
		0.000027	0.00069	10.50	0.306	99.49
		0.000023	0.00058	10.75	0.236	99.73
		0.000019	0.00049	11.00	0.164	99.89
		0.000016	0.00041	11.25	0.087	99.98
		0.000015	0.00038	11.50	0.021	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0018	0.0018	0.0018	
(mm)	0.0460	0.0460	0.0460	
Mean	Silt sized			
(in)	0.0021	0.0013	0.0014	
(mm)	0.0521	0.0324	0.0364	
Sorting	Poor			
	2.242	1.706	1.725	
Skewness	Strongly fine skewed			
	0.843	0.694	0.354	
Kurtosis	Mesokurtic			
	0.296	0.687	1.013	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	39.44	53.47	7.09	60.56
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0059	0.1488	2.7484	
10	0.0049	0.1234	3.0186	
16	0.0042	0.1056	3.2438	
25	0.0034	0.0870	3.5237	
40	0.0024	0.0616	4.0208	
50	0.0018	0.0460	4.4423	
70	0.0009	0.0220	5.5056	
75	0.0007	0.0173	5.8527	
84	0.0004	0.0099	6.6552	
90	0.0002	0.0057	7.4550	
95	0.0001	0.0028	8.5034	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



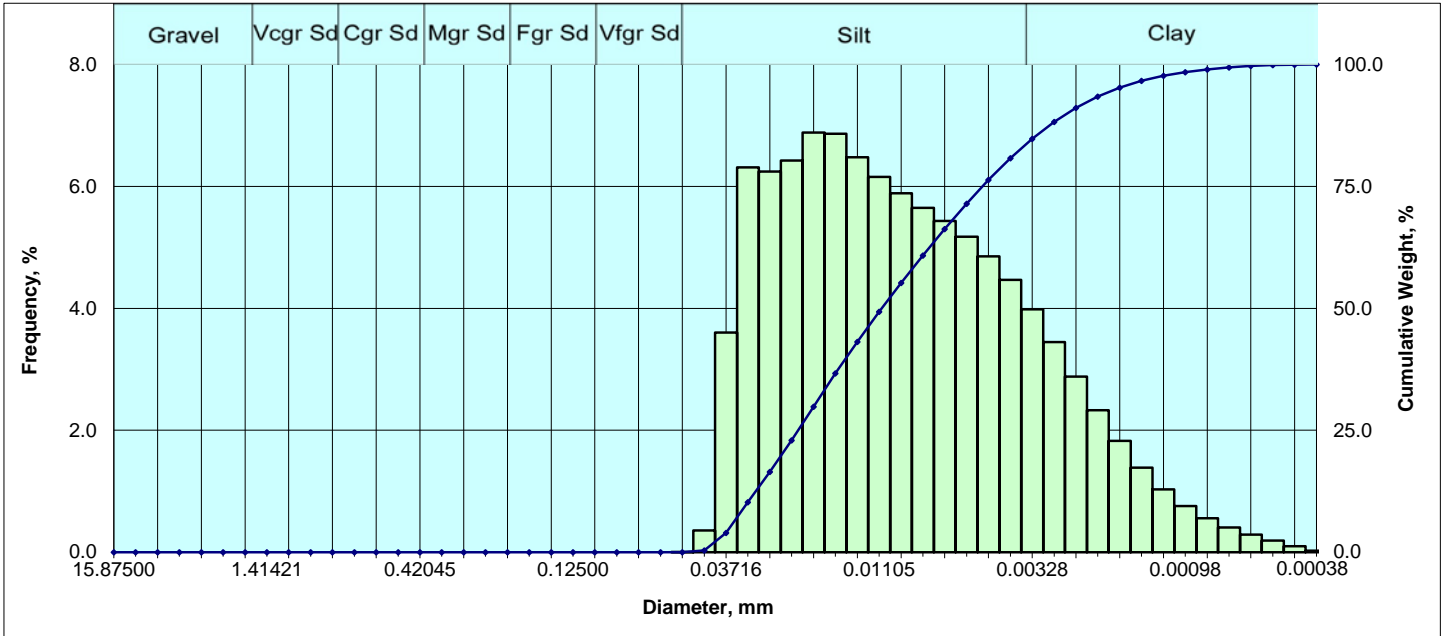
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	3.006	3.01
	8	0.092913	2.36000	-1.25	2.246	5.25
V Crse Sand	10	0.078740	2.00000	-1.00	1.340	6.59
	12	0.066212	1.68179	-0.75	0.000	6.59
	14	0.055678	1.41421	-0.50	0.000	6.59
	16	0.046819	1.18921	-0.25	0.000	6.59
Coarse Sand	18	0.039370	1.00000	0.00	0.000	6.59
	20	0.033106	0.84090	0.25	0.000	6.59
	25	0.027839	0.70711	0.50	0.002	6.59
	30	0.023410	0.59460	0.75	0.037	6.63
Medium Sand	35	0.019685	0.50000	1.00	0.193	6.82
	40	0.016553	0.42045	1.25	0.453	7.28
	45	0.013919	0.35355	1.50	0.735	8.01
	50	0.011705	0.29730	1.75	0.862	8.87
Fine Sand	60	0.009843	0.25000	2.00	0.798	9.67
	70	0.008277	0.21022	2.25	0.696	10.37
	80	0.006960	0.17678	2.50	0.737	11.10
	100	0.005852	0.14865	2.75	1.067	12.17
V. Fine Sand	120	0.004921	0.12500	3.00	1.621	13.79
	140	0.004138	0.10511	3.25	2.200	15.99
	170	0.003480	0.08839	3.50	2.678	18.67
	200	0.002926	0.07433	3.75	3.124	21.79
Silt	230	0.002461	0.06250	4.00	3.675	25.47
	270	0.002069	0.05256	4.25	4.374	29.84
	325	0.001740	0.04419	4.50	5.174	35.02
	400	0.001463	0.03716	4.75	5.756	40.77
	450	0.001230	0.03125	5.00	6.000	46.77
	500	0.001035	0.02628	5.25	5.886	52.66
	635	0.000870	0.02210	5.50	5.530	58.19
		0.000732	0.01858	5.75	5.097	63.29
		0.000615	0.01562	6.00	4.671	67.96
		0.000517	0.01314	6.25	4.241	72.20
		0.000435	0.01105	6.50	3.784	75.98
		0.000366	0.00929	6.75	3.344	79.33
Clay		0.000308	0.00781	7.00	2.950	82.28
		0.000259	0.00657	7.25	2.602	84.88
		0.000217	0.00552	7.50	2.297	87.18
		0.000183	0.00465	7.75	2.028	89.20
		0.000154	0.00391	8.00	1.791	90.99
		0.000129	0.00328	8.25	1.575	92.57
		0.000109	0.00276	8.50	1.375	93.94
		0.000091	0.00232	8.75	1.188	95.13
		0.000077	0.00195	9.00	1.016	96.15
		0.000065	0.00164	9.25	0.858	97.01
		0.000054	0.00138	9.50	0.717	97.72
		0.000046	0.00116	9.75	0.594	98.32
		0.000038	0.00098	10.00	0.487	98.80
		0.000032	0.00082	10.25	0.394	99.20
		0.000027	0.00069	10.50	0.310	99.51
	0.000023	0.00058	10.75	0.232	99.74	
	0.000019	0.00049	11.00	0.157	99.90	
	0.000016	0.00041	11.25	0.082	99.98	
	0.000015	0.00038	11.50	0.020	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0011	0.0011	0.0011	
(mm)	0.0285	0.0285	0.0285	
Mean	Silt sized			
(in)	0.0015	0.0011	0.0011	
(mm)	0.0378	0.0271	0.0276	
Sorting	Very poor			
	2.350	1.955	2.496	
Skewness	Coarse skewed			
	0.955	-0.728	-0.123	
Kurtosis	Very leptokurtic			
	0.116	1.564	1.667	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
6.59	18.88	65.52	9.01	74.53
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0973	2.4710	-1.3051	
10	0.0091	0.2312	2.1127	
16	0.0041	0.1051	3.2506	
25	0.0025	0.0640	3.9655	
40	0.0015	0.0381	4.7138	
50	0.0011	0.0285	5.1317	
70	0.0006	0.0144	6.1150	
75	0.0005	0.0116	6.4309	
84	0.0003	0.0070	7.1607	
90	0.0002	0.0043	7.8559	
95	0.0001	0.0024	8.7199	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



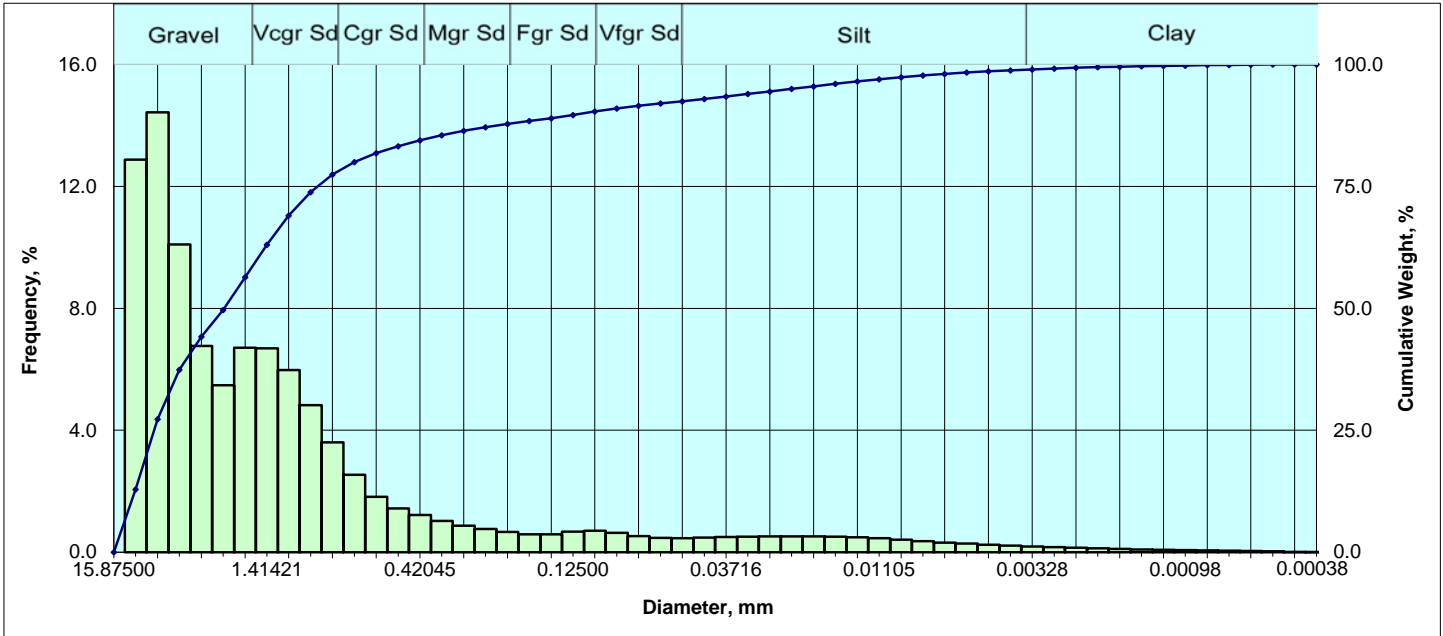
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.001	0.00
	325	0.001740	0.04419	4.50	0.356	0.36
	400	0.001463	0.03716	4.75	3.604	3.96
	450	0.001230	0.03125	5.00	6.312	10.27
	500	0.001035	0.02628	5.25	6.244	16.52
	635	0.000870	0.02210	5.50	6.424	22.94
		0.000732	0.01858	5.75	6.882	29.82
		0.000615	0.01562	6.00	6.866	36.69
		0.000517	0.01314	6.25	6.477	43.16
		0.000435	0.01105	6.50	6.157	49.32
		0.000366	0.00929	6.75	5.888	55.21
		0.000308	0.00781	7.00	5.649	60.86
	0.000259	0.00657	7.25	5.435	66.29	
	0.000217	0.00552	7.50	5.173	71.47	
	0.000183	0.00465	7.75	4.851	76.32	
	0.000154	0.00391	8.00	4.469	80.79	
Clay		0.000129	0.00328	8.25	3.984	84.77
		0.000109	0.00276	8.50	3.446	88.22
		0.000091	0.00232	8.75	2.882	91.10
		0.000077	0.00195	9.00	2.329	93.43
		0.000065	0.00164	9.25	1.825	95.25
		0.000054	0.00138	9.50	1.389	96.64
		0.000046	0.00116	9.75	1.032	97.68
		0.000038	0.00098	10.00	0.759	98.43
		0.000032	0.00082	10.25	0.558	98.99
		0.000027	0.00069	10.50	0.408	99.40
		0.000023	0.00058	10.75	0.289	99.69
		0.000019	0.00049	11.00	0.189	99.88
		0.000016	0.00041	11.25	0.098	99.98
		0.000015	0.00038	11.50	0.024	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0108	0.0108	0.0108	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0130	0.0095	0.0100	
Sorting	Poor			
	2.076	1.485	1.413	
Skewness	Finely skewed			
	0.935	0.319	0.170	
Kurtosis	Platykurtic			
	0.278	0.489	0.860	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	80.79	19.21	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0014	0.0362	4.7883	
10	0.0012	0.0315	4.9883	
16	0.0011	0.0267	5.2276	
25	0.0008	0.0210	5.5704	
40	0.0006	0.0144	6.1224	
50	0.0004	0.0108	6.5267	
70	0.0002	0.0058	7.4246	
75	0.0002	0.0049	7.6776	
84	0.0001	0.0034	8.1980	
90	0.0001	0.0025	8.6494	
95	0.0001	0.0017	9.2125	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



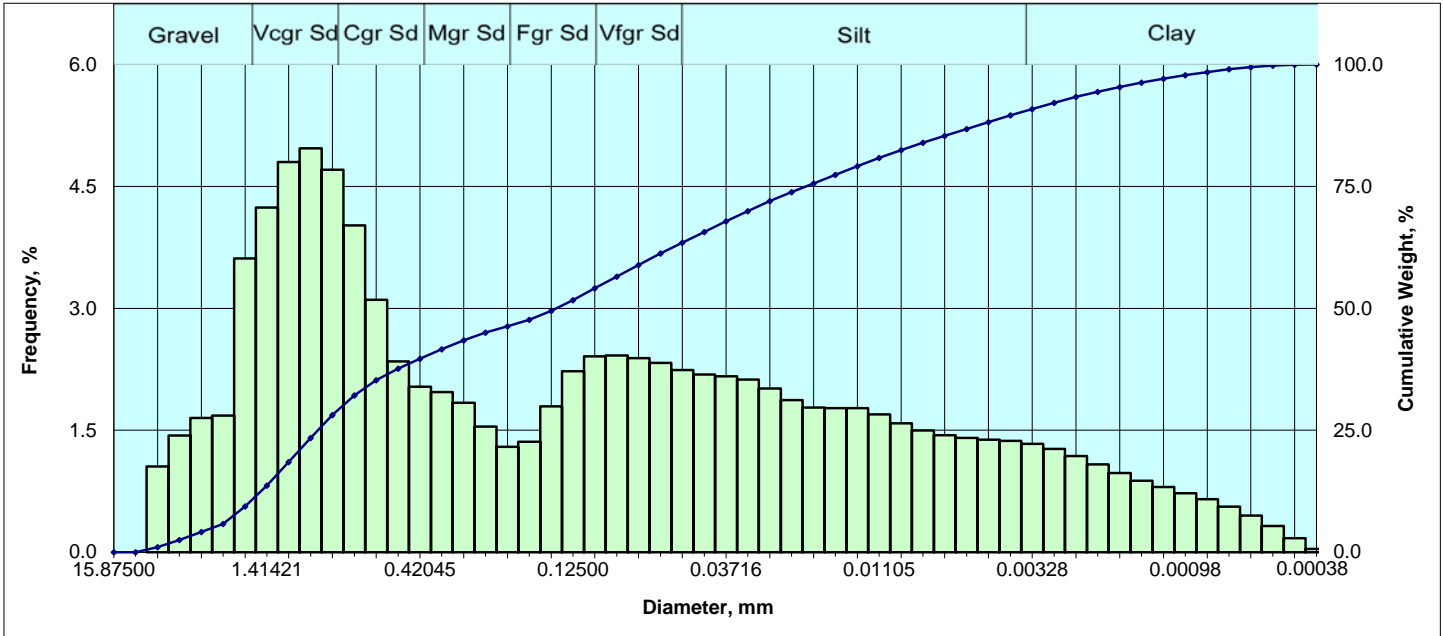
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	12.876	12.88
	4	0.187008	4.75000	-2.25	14.434	27.31
	6	0.131890	3.35000	-1.75	10.093	37.40
	8	0.092913	2.36000	-1.25	6.771	44.17
V Crse Sand	10	0.078740	2.00000	-1.00	5.483	49.66
	12	0.066212	1.68179	-0.75	6.705	56.36
	14	0.055678	1.41421	-0.50	6.689	63.05
	16	0.046819	1.18921	-0.25	5.979	69.03
Coarse Sand	18	0.039370	1.00000	0.00	4.825	73.86
	20	0.033106	0.84090	0.25	3.606	77.46
	25	0.027839	0.70711	0.50	2.544	80.01
	30	0.023410	0.59460	0.75	1.816	81.82
Medium Sand	35	0.019685	0.50000	1.00	1.433	83.25
	40	0.016553	0.42045	1.25	1.224	84.48
	45	0.013919	0.35355	1.50	1.030	85.51
	50	0.011705	0.29730	1.75	0.871	86.38
Fine Sand	60	0.009843	0.25000	2.00	0.762	87.14
	70	0.008277	0.21022	2.25	0.666	87.81
	80	0.006960	0.17678	2.50	0.584	88.39
	100	0.005852	0.14865	2.75	0.591	88.98
V. Fine Sand	120	0.004921	0.12500	3.00	0.672	89.65
	140	0.004138	0.10511	3.25	0.703	90.36
	170	0.003480	0.08839	3.50	0.635	90.99
	200	0.002926	0.07433	3.75	0.534	91.53
Silt	230	0.002461	0.06250	4.00	0.472	92.00
	270	0.002069	0.05256	4.25	0.464	92.46
	325	0.001740	0.04419	4.50	0.485	92.95
	400	0.001463	0.03716	4.75	0.500	93.45
	450	0.001230	0.03125	5.00	0.509	93.95
	500	0.001035	0.02628	5.25	0.516	94.47
	635	0.000870	0.02210	5.50	0.519	94.99
		0.000732	0.01858	5.75	0.519	95.51
		0.000615	0.01562	6.00	0.514	96.02
		0.000517	0.01314	6.25	0.495	96.52
		0.000435	0.01105	6.50	0.457	96.98
		0.000366	0.00929	6.75	0.409	97.38
		0.000308	0.00781	7.00	0.362	97.75
	0.000259	0.00657	7.25	0.319	98.07	
	0.000217	0.00552	7.50	0.281	98.35	
	0.000183	0.00465	7.75	0.247	98.59	
	0.000154	0.00391	8.00	0.217	98.81	
Clay		0.000129	0.00328	8.25	0.190	99.00
		0.000109	0.00276	8.50	0.166	99.17
		0.000091	0.00232	8.75	0.144	99.31
		0.000077	0.00195	9.00	0.125	99.44
		0.000065	0.00164	9.25	0.108	99.54
		0.000054	0.00138	9.50	0.094	99.64
		0.000046	0.00116	9.75	0.083	99.72
		0.000038	0.00098	10.00	0.072	99.79
		0.000032	0.00082	10.25	0.063	99.86
		0.000027	0.00069	10.50	0.053	99.91
		0.000023	0.00058	10.75	0.042	99.95
		0.000019	0.00049	11.00	0.029	99.98
		0.000016	0.00041	11.25	0.016	100.00
		0.000015	0.00038	11.50	0.004	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0781	0.0781	0.0781	
(mm)	1.9837	1.9837	1.9837	
Mean	Very coarse sand sized			
(in)	0.1272	0.0770	0.0774	
(mm)	3.2299	1.9558	1.9651	
Sorting	Very poor			
	2.409	2.115	2.459	
Skewness	Finely skewed			
	1.153	0.883	0.207	
Kurtosis	Lepokurtic			
	0.211	1.186	1.494	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
49.66	42.34	6.81	1.19	8.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.5275	13.3995	-3.7441	
10	0.4301	10.9241	-3.4494	
16	0.3335	8.4721	-3.0827	
25	0.2169	5.5103	-2.4621	
40	0.1169	2.9704	-1.5707	
50	0.0781	1.9837	-0.9882	
70	0.0453	1.1512	-0.2031	
75	0.0374	0.9495	0.0748	
84	0.0178	0.4515	1.1472	
90	0.0045	0.1152	3.1178	
95	0.0009	0.0220	5.5045	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



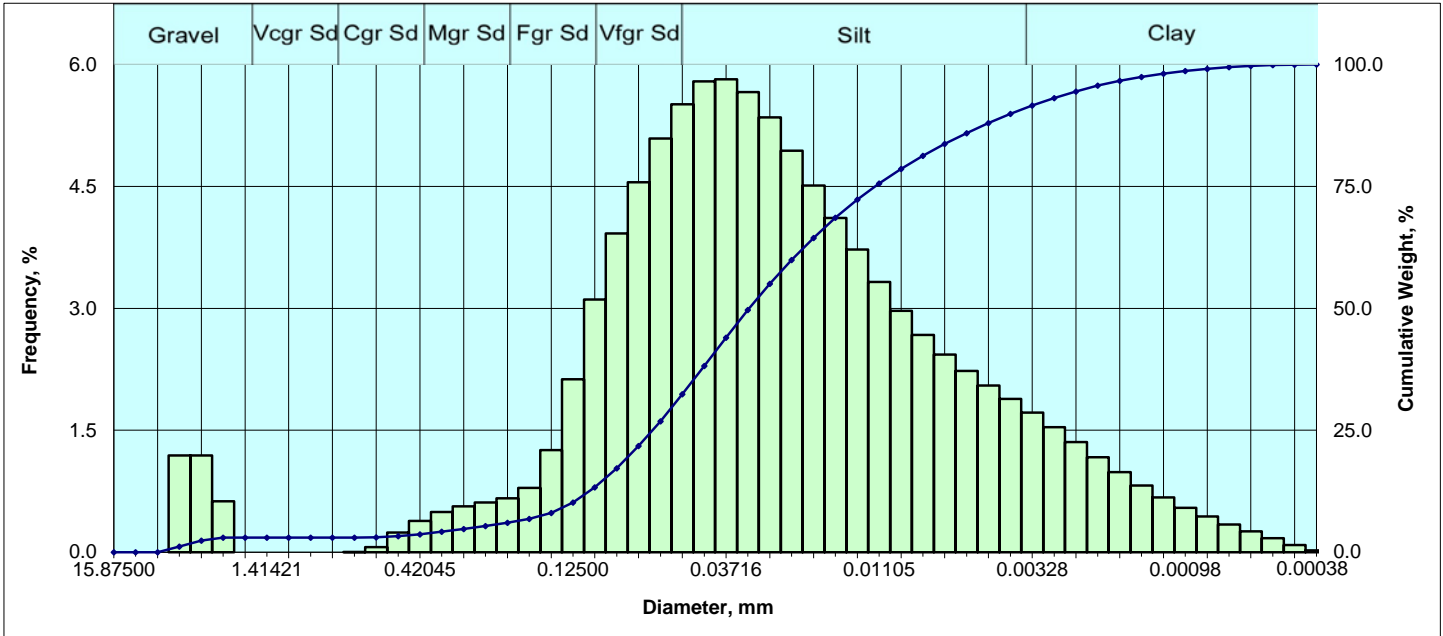
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	1.057	1.06
	6	0.131890	3.35000	-1.75	1.436	2.49
	8	0.092913	2.36000	-1.25	1.653	4.15
V Crse Sand	10	0.078740	2.00000	-1.00	1.680	5.82
	12	0.066212	1.68179	-0.75	3.615	9.44
	14	0.055678	1.41421	-0.50	4.240	13.68
	16	0.046819	1.18921	-0.25	4.801	18.48
Coarse Sand	18	0.039370	1.00000	0.00	4.970	23.45
	20	0.033106	0.84090	0.25	4.704	28.15
	25	0.027839	0.70711	0.50	4.022	32.18
	30	0.023410	0.59460	0.75	3.107	35.28
Medium Sand	35	0.019685	0.50000	1.00	2.346	37.63
	40	0.016553	0.42045	1.25	2.035	39.66
	45	0.013919	0.35355	1.50	1.970	41.63
	50	0.011705	0.29730	1.75	1.840	43.47
Fine Sand	60	0.009843	0.25000	2.00	1.546	45.02
	70	0.008277	0.21022	2.25	1.298	46.32
	80	0.006960	0.17678	2.50	1.359	47.68
	100	0.005852	0.14865	2.75	1.794	49.47
V. Fine Sand	120	0.004921	0.12500	3.00	2.227	51.70
	140	0.004138	0.10511	3.25	2.408	54.11
	170	0.003480	0.08839	3.50	2.420	56.53
	200	0.002926	0.07433	3.75	2.387	58.92
Silt	230	0.002461	0.06250	4.00	2.328	61.24
	270	0.002069	0.05256	4.25	2.243	63.49
	325	0.001740	0.04419	4.50	2.188	65.67
	400	0.001463	0.03716	4.75	2.163	67.84
	450	0.001230	0.03125	5.00	2.123	69.96
	500	0.001035	0.02628	5.25	2.015	71.98
	635	0.000870	0.02210	5.50	1.870	73.85
		0.000732	0.01858	5.75	1.780	75.63
		0.000615	0.01562	6.00	1.773	77.40
		0.000517	0.01314	6.25	1.773	79.17
		0.000435	0.01105	6.50	1.696	80.87
		0.000366	0.00929	6.75	1.587	82.45
	0.000308	0.00781	7.00	1.498	83.95	
	0.000259	0.00657	7.25	1.439	85.39	
	0.000217	0.00552	7.50	1.405	86.80	
	0.000183	0.00465	7.75	1.384	88.18	
	0.000154	0.00391	8.00	1.370	89.55	
Clay		0.000129	0.00328	8.25	1.334	90.88
		0.000109	0.00276	8.50	1.270	92.15
		0.000091	0.00232	8.75	1.182	93.34
		0.000077	0.00195	9.00	1.079	94.42
		0.000065	0.00164	9.25	0.974	95.39
		0.000054	0.00138	9.50	0.880	96.27
		0.000046	0.00116	9.75	0.802	97.07
		0.000038	0.00098	10.00	0.727	97.80
		0.000032	0.00082	10.25	0.652	98.45
		0.000027	0.00069	10.50	0.560	99.01
		0.000023	0.00058	10.75	0.450	99.46
		0.000019	0.00049	11.00	0.322	99.78
		0.000016	0.00041	11.25	0.174	99.96
		0.000015	0.00038	11.50	0.043	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Fine sand sized			
(in)	0.0056	0.0056	0.0056	
(mm)	0.1430	0.1430	0.1430	
Mean	Very fine sand sized			
(in)	0.0190	0.0040	0.0045	
(mm)	0.4837	0.1007	0.1132	
Sorting	Very poor			
	6.915	3.696	3.404	
Skewness	Finely skewed			
	0.958	0.326	0.186	
Kurtosis	Platykurtic			
	0.282	0.389	0.754	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
5.82	55.42	28.31	10.45	38.76
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0857	2.1768	-1.1222	
10	0.0648	1.6465	-0.7194	
16	0.0514	1.3055	-0.3846	
25	0.0373	0.9476	0.0777	
40	0.0161	0.4090	1.2897	
50	0.0056	0.1430	2.8054	
70	0.0012	0.0312	5.0046	
75	0.0008	0.0198	5.6571	
84	0.0003	0.0078	7.0076	
90	0.0001	0.0037	8.0795	
95	0.0001	0.0018	9.1448	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



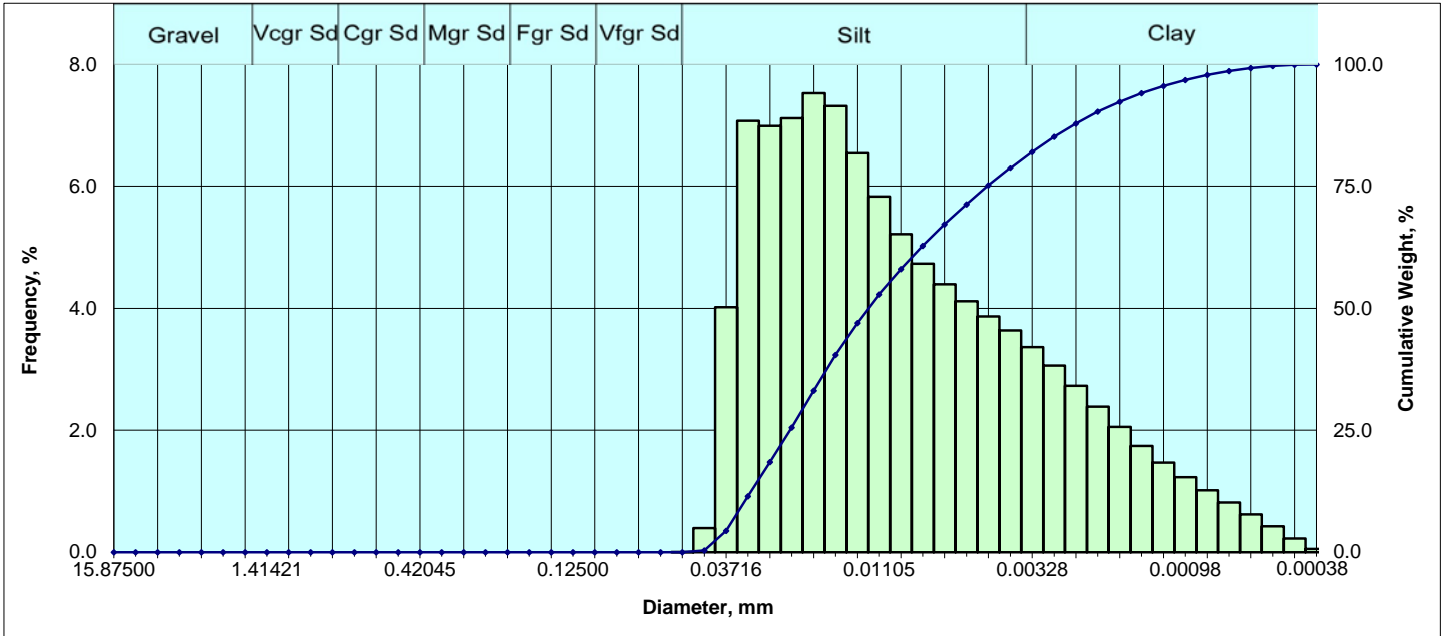
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	1.190	1.19
	8	0.092913	2.36000	-1.25	1.190	2.38
V Crse Sand	10	0.078740	2.00000	-1.00	0.626	3.01
	12	0.066212	1.68179	-0.75	0.000	3.01
	14	0.055678	1.41421	-0.50	0.000	3.01
	16	0.046819	1.18921	-0.25	0.000	3.01
Coarse Sand	18	0.039370	1.00000	0.00	0.000	3.01
	20	0.033106	0.84090	0.25	0.000	3.01
	25	0.027839	0.70711	0.50	0.003	3.01
	30	0.023410	0.59460	0.75	0.063	3.07
Medium Sand	35	0.019685	0.50000	1.00	0.241	3.31
	40	0.016553	0.42045	1.25	0.386	3.70
	45	0.013919	0.35355	1.50	0.496	4.19
	50	0.011705	0.29730	1.75	0.564	4.76
Fine Sand	60	0.009843	0.25000	2.00	0.612	5.37
	70	0.008277	0.21022	2.25	0.662	6.03
	80	0.006960	0.17678	2.50	0.793	6.83
	100	0.005852	0.14865	2.75	1.258	8.08
V. Fine Sand	120	0.004921	0.12500	3.00	2.127	10.21
	140	0.004138	0.10511	3.25	3.111	13.32
	170	0.003480	0.08839	3.50	3.921	17.24
	200	0.002926	0.07433	3.75	4.553	21.80
Silt	230	0.002461	0.06250	4.00	5.088	26.88
	270	0.002069	0.05256	4.25	5.511	32.40
	325	0.001740	0.04419	4.50	5.791	38.19
	400	0.001463	0.03716	4.75	5.819	44.01
	450	0.001230	0.03125	5.00	5.661	49.67
	500	0.001035	0.02628	5.25	5.350	55.02
	635	0.000870	0.02210	5.50	4.939	59.96
		0.000732	0.01858	5.75	4.512	64.47
		0.000615	0.01562	6.00	4.113	68.58
		0.000517	0.01314	6.25	3.723	72.30
		0.000435	0.01105	6.50	3.326	75.63
Clay		0.000366	0.00929	6.75	2.969	78.60
		0.000308	0.00781	7.00	2.674	81.27
		0.000259	0.00657	7.25	2.432	83.71
		0.000217	0.00552	7.50	2.229	85.93
		0.000183	0.00465	7.75	2.050	87.99
		0.000154	0.00391	8.00	1.888	89.87
		0.000129	0.00328	8.25	1.718	91.59
		0.000109	0.00276	8.50	1.540	93.13
		0.000091	0.00232	8.75	1.354	94.48
		0.000077	0.00195	9.00	1.167	95.65
		0.000065	0.00164	9.25	0.986	96.64
		0.000054	0.00138	9.50	0.821	97.46
		0.000046	0.00116	9.75	0.673	98.13
		0.000038	0.00098	10.00	0.546	98.68
		0.000032	0.00082	10.25	0.439	99.12
	0.000027	0.00069	10.50	0.343	99.46	
	0.000023	0.00058	10.75	0.255	99.71	
	0.000019	0.00049	11.00	0.173	99.89	
	0.000016	0.00041	11.25	0.090	99.98	
	0.000015	0.00038	11.50	0.022	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0012	0.0012	0.0012	
(mm)	0.0309	0.0309	0.0309	
Mean	Silt sized			
(in)	0.0015	0.0010	0.0010	
(mm)	0.0392	0.0245	0.0265	
Sorting	Very poor			
	2.417	1.932	2.029	
Skewness	Finely skewed			
	0.894	0.173	0.134	
Kurtosis	Lepokurtic			
	0.224	0.814	1.128	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
3.01	23.88	62.99	10.13	73.12
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0110	0.2787	1.8433	
10	0.0050	0.1273	2.9731	
16	0.0037	0.0937	3.4160	
25	0.0026	0.0669	3.9023	
40	0.0017	0.0420	4.5734	
50	0.0012	0.0309	5.0143	
70	0.0006	0.0147	6.0903	
75	0.0005	0.0114	6.4492	
84	0.0003	0.0064	7.2806	
90	0.0002	0.0039	8.0171	
95	0.0001	0.0022	8.8551	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



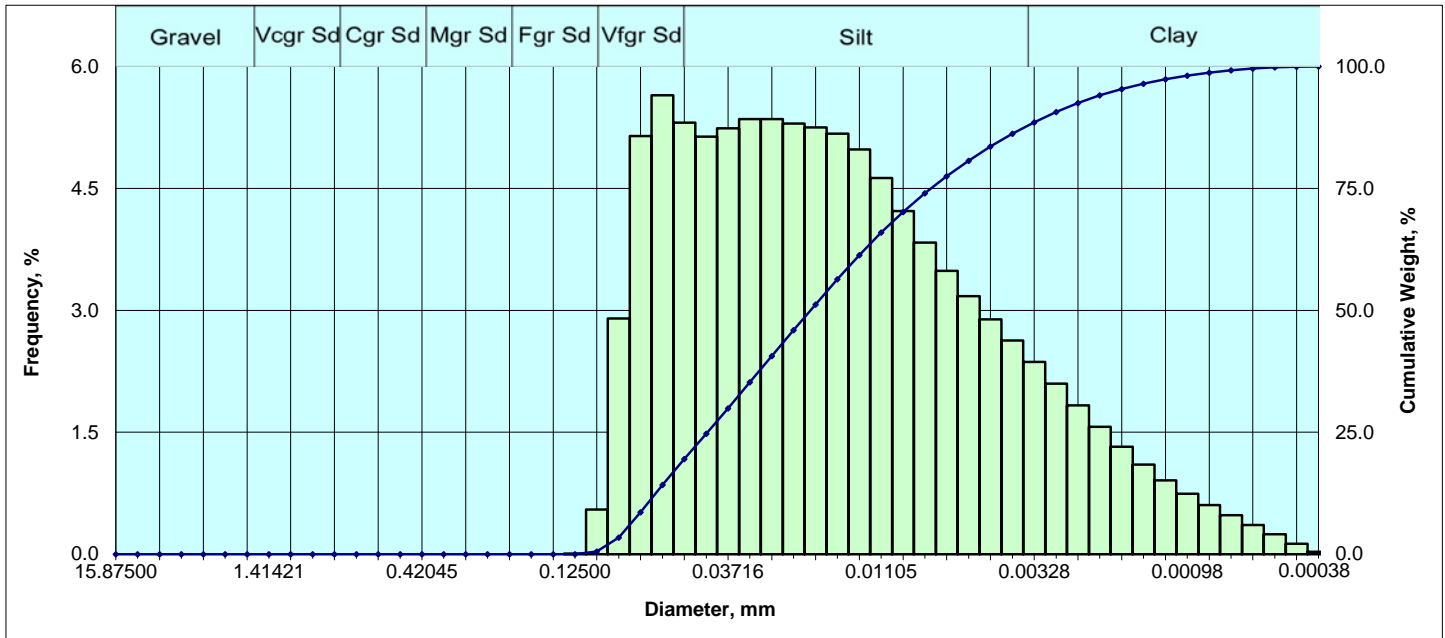
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.001	0.00
	325	0.001740	0.04419	4.50	0.395	0.40
	400	0.001463	0.03716	4.75	4.019	4.41
	450	0.001230	0.03125	5.00	7.077	11.49
	500	0.001035	0.02628	5.25	6.993	18.48
	635	0.000870	0.02210	5.50	7.124	25.61
		0.000732	0.01858	5.75	7.530	33.14
		0.000615	0.01562	6.00	7.321	40.46
		0.000517	0.01314	6.25	6.553	47.01
		0.000435	0.01105	6.50	5.827	52.84
		0.000366	0.00929	6.75	5.213	58.05
		0.000308	0.00781	7.00	4.730	62.78
	0.000259	0.00657	7.25	4.393	67.18	
	0.000217	0.00552	7.50	4.115	71.29	
	0.000183	0.00465	7.75	3.866	75.16	
	0.000154	0.00391	8.00	3.639	78.79	
Clay		0.000129	0.00328	8.25	3.366	82.16
		0.000109	0.00276	8.50	3.063	85.22
		0.000091	0.00232	8.75	2.732	87.96
		0.000077	0.00195	9.00	2.388	90.34
		0.000065	0.00164	9.25	2.055	92.40
		0.000054	0.00138	9.50	1.746	94.15
		0.000046	0.00116	9.75	1.472	95.62
		0.000038	0.00098	10.00	1.229	96.85
		0.000032	0.00082	10.25	1.015	97.86
		0.000027	0.00069	10.50	0.814	98.68
		0.000023	0.00058	10.75	0.619	99.30
		0.000019	0.00049	11.00	0.425	99.72
		0.000016	0.00041	11.25	0.225	99.95
		0.000015	0.00038	11.50	0.054	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0121	0.0121	0.0121	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0136	0.0091	0.0100	
Sorting	Poor			
	2.190	1.619	1.548	
Skewness	Finely skewed			
	0.850	0.514	0.295	
Kurtosis	Platykurtic			
	0.291	0.504	0.882	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	78.79	21.21	100.00
Particle Diameter				
Percentile [Weight, %]	[in.]	[mm]	[phi]	
5	0.0014	0.0367	4.7691	
10	0.0013	0.0325	4.9436	
16	0.0011	0.0280	5.1562	
25	0.0009	0.0225	5.4769	
40	0.0006	0.0158	5.9830	
50	0.0005	0.0121	6.3728	
70	0.0002	0.0059	7.4169	
75	0.0002	0.0047	7.7390	
84	0.0001	0.0030	8.3948	
90	0.0001	0.0020	8.9612	
95	0.0000	0.0013	9.6398	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



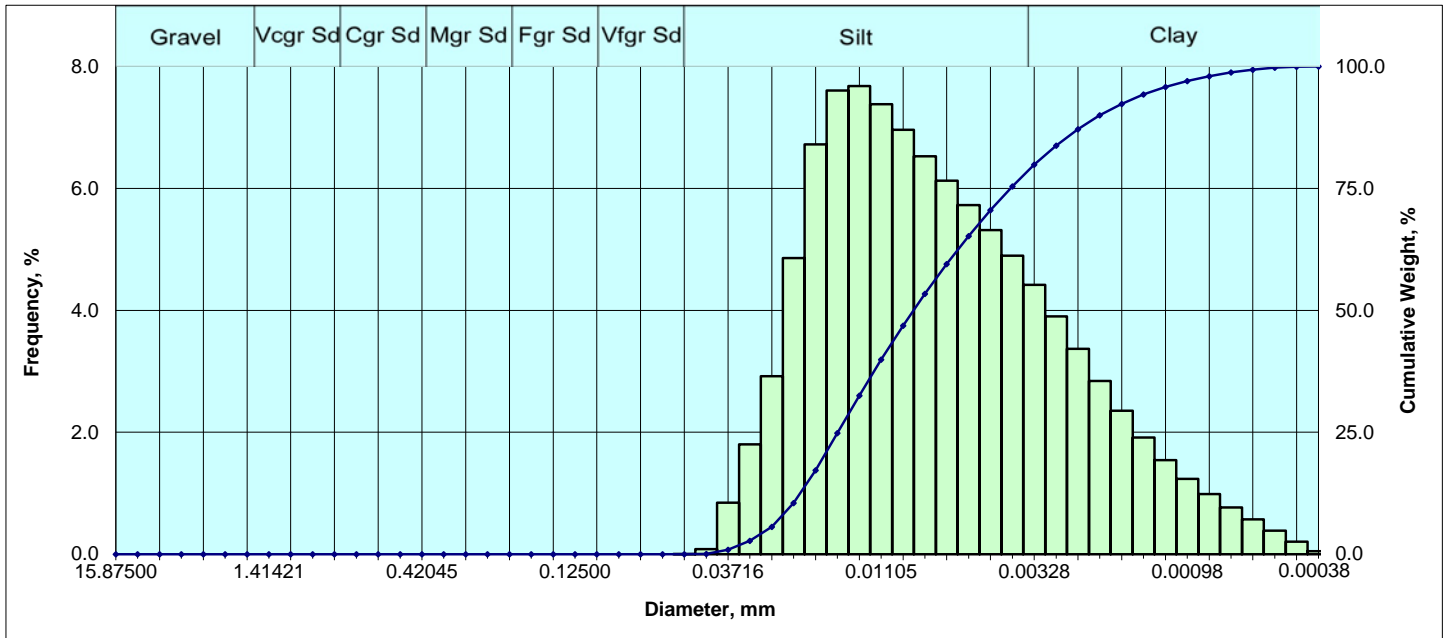
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.010	0.01
	140	0.004138	0.10511	3.25	0.552	0.56
	170	0.003480	0.08839	3.50	2.901	3.46
	200	0.002926	0.07433	3.75	5.144	8.61
Silt	230	0.002461	0.06250	4.00	5.647	14.25
	270	0.002069	0.05256	4.25	5.308	19.56
	325	0.001740	0.04419	4.50	5.135	24.70
	400	0.001463	0.03716	4.75	5.240	29.94
	450	0.001230	0.03125	5.00	5.352	35.29
	500	0.001035	0.02628	5.25	5.352	40.64
	635	0.000870	0.02210	5.50	5.297	45.94
		0.000732	0.01858	5.75	5.250	51.19
		0.000615	0.01562	6.00	5.172	56.36
		0.000517	0.01314	6.25	4.979	61.34
		0.000435	0.01105	6.50	4.627	65.97
		0.000366	0.00929	6.75	4.222	70.19
		0.000308	0.00781	7.00	3.835	74.02
	0.000259	0.00657	7.25	3.486	77.51	
	0.000217	0.00552	7.50	3.174	80.68	
	0.000183	0.00465	7.75	2.890	83.57	
	0.000154	0.00391	8.00	2.628	86.20	
Clay		0.000129	0.00328	8.25	2.365	88.57
		0.000109	0.00276	8.50	2.099	90.67
		0.000091	0.00232	8.75	1.831	92.50
		0.000077	0.00195	9.00	1.569	94.07
		0.000065	0.00164	9.25	1.323	95.39
		0.000054	0.00138	9.50	1.103	96.49
		0.000046	0.00116	9.75	0.910	97.40
		0.000038	0.00098	10.00	0.745	98.15
		0.000032	0.00082	10.25	0.606	98.75
		0.000027	0.00069	10.50	0.479	99.23
		0.000023	0.00058	10.75	0.361	99.59
		0.000019	0.00049	11.00	0.246	99.84
		0.000016	0.00041	11.25	0.130	99.97
		0.000015	0.00038	11.50	0.032	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0194	0.0194	0.0194	
Mean	Silt sized			
(in)	0.0010	0.0006	0.0007	
(mm)	0.0256	0.0164	0.0173	
Sorting	Poor			
	2.422	1.855	1.776	
Skewness	Finely skewed			
	0.933	0.367	0.187	
Kurtosis	Platykurtic			
	0.265	0.510	0.899	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	14.25	71.95	13.80	85.75
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0033	0.0842	3.5703	
10	0.0028	0.0714	3.8078	
16	0.0023	0.0592	4.0776	
25	0.0017	0.0438	4.5133	
40	0.0011	0.0269	5.2177	
50	0.0008	0.0194	5.6895	
70	0.0004	0.0094	6.7379	
75	0.0003	0.0075	7.0658	
84	0.0002	0.0045	7.7877	
90	0.0001	0.0029	8.4159	
95	0.0001	0.0017	9.1720	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



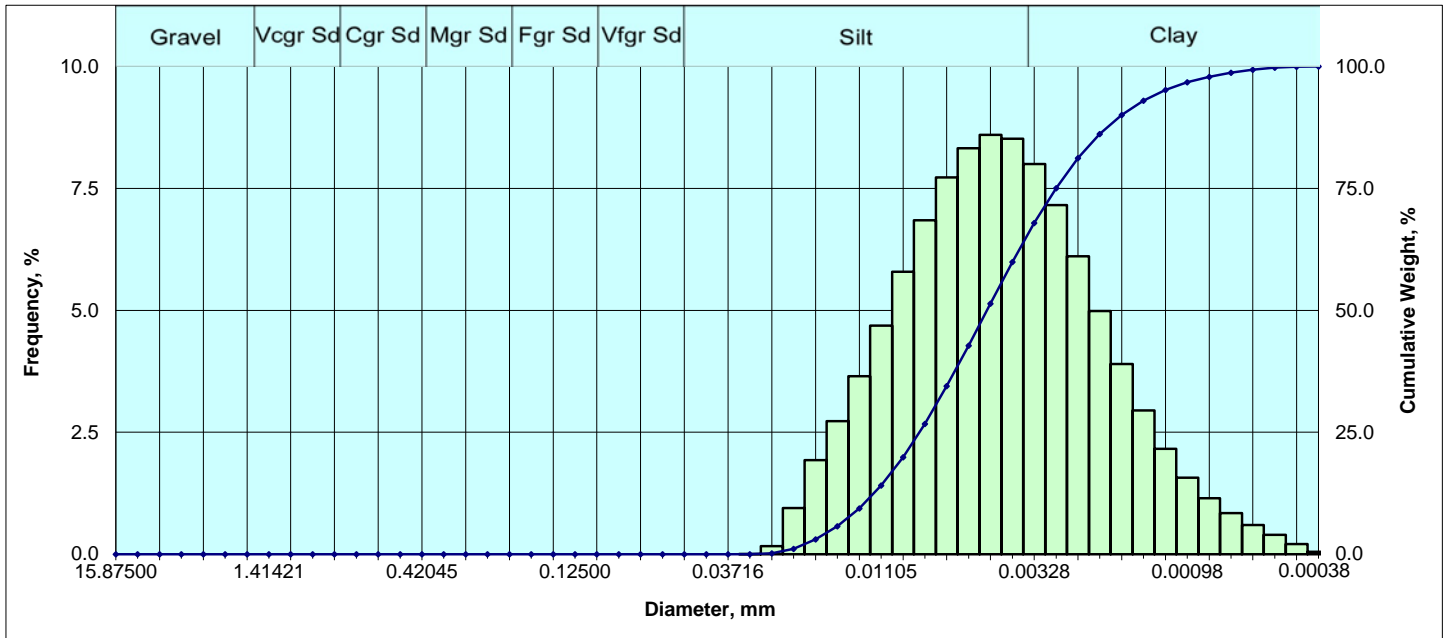
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.082	0.08
	400	0.001463	0.03716	4.75	0.848	0.93
	450	0.001230	0.03125	5.00	1.801	2.73
	500	0.001035	0.02628	5.25	2.921	5.65
	635	0.000870	0.02210	5.50	4.857	10.51
		0.000732	0.01858	5.75	6.721	17.23
		0.000615	0.01562	6.00	7.605	24.83
		0.000517	0.01314	6.25	7.677	32.51
		0.000435	0.01105	6.50	7.382	39.89
		0.000366	0.00929	6.75	6.960	46.85
		0.000308	0.00781	7.00	6.528	53.38
	0.000259	0.00657	7.25	6.127	59.51	
	0.000217	0.00552	7.50	5.727	65.23	
	0.000183	0.00465	7.75	5.317	70.55	
	0.000154	0.00391	8.00	4.897	75.45	
Clay		0.000129	0.00328	8.25	4.417	79.87
		0.000109	0.00276	8.50	3.902	83.77
		0.000091	0.00232	8.75	3.369	87.14
		0.000077	0.00195	9.00	2.843	89.98
		0.000065	0.00164	9.25	2.352	92.33
		0.000054	0.00138	9.50	1.917	94.25
		0.000046	0.00116	9.75	1.544	95.79
		0.000038	0.00098	10.00	1.236	97.03
		0.000032	0.00082	10.25	0.986	98.01
		0.000027	0.00069	10.50	0.769	98.78
		0.000023	0.00058	10.75	0.574	99.36
		0.000019	0.00049	11.00	0.389	99.75
		0.000016	0.00041	11.25	0.205	99.95
		0.000015	0.00038	11.50	0.050	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0086	0.0086	0.0086	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0098	0.0072	0.0077	
Sorting	Poor			
	1.979	1.408	1.374	
Skewness	Finely skewed			
	0.917	0.382	0.208	
Kurtosis	Mesokurtic			
	0.282	0.572	0.921	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	75.45	24.55	100.00
Particle Diameter				
Percentile [Weight, %]	[in.]	[mm]	[phi]	
5	0.0011	0.0274	5.1903	
10	0.0009	0.0225	5.4717	
16	0.0008	0.0192	5.7009	
25	0.0006	0.0156	6.0050	
40	0.0004	0.0110	6.5035	
50	0.0003	0.0086	6.8652	
70	0.0002	0.0047	7.7219	
75	0.0002	0.0040	7.9752	
84	0.0001	0.0027	8.5159	
90	0.0001	0.0020	9.0021	
95	0.0001	0.0013	9.6164	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



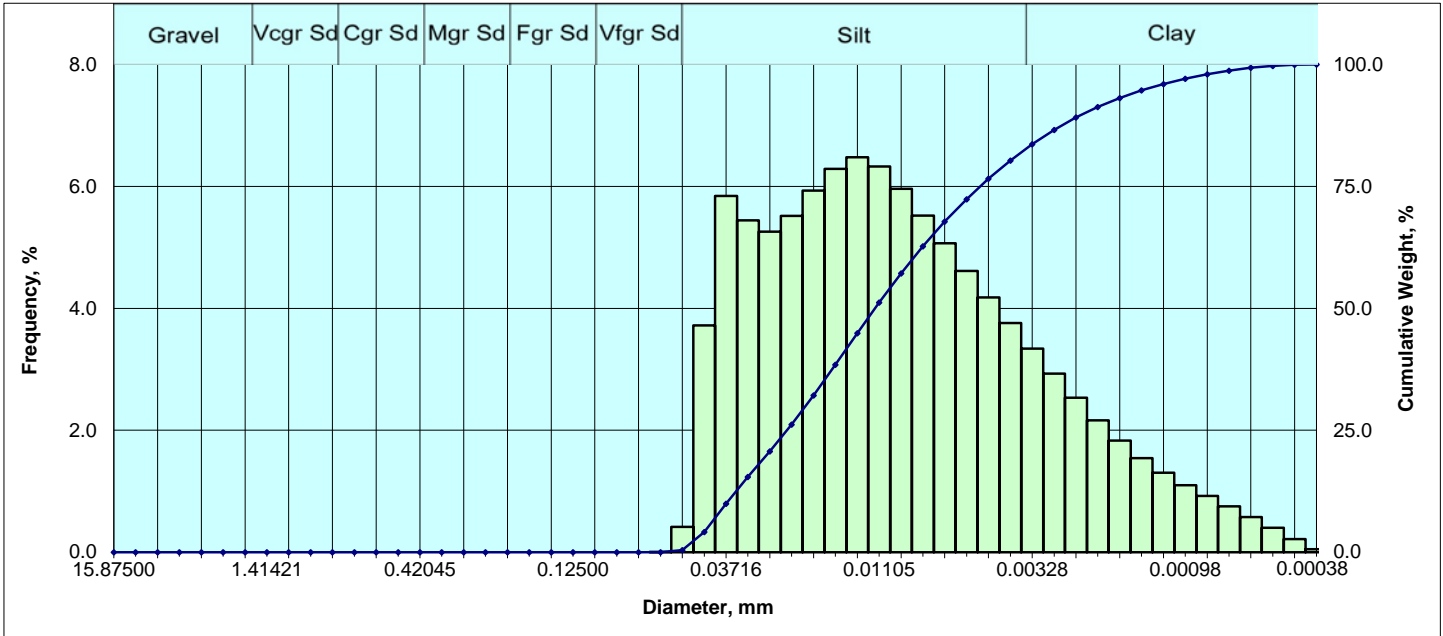
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.000	0.00
	400	0.001463	0.03716	4.75	0.000	0.00
	450	0.001230	0.03125	5.00	0.003	0.00
	500	0.001035	0.02628	5.25	0.167	0.17
	635	0.000870	0.02210	5.50	0.949	1.12
		0.000732	0.01858	5.75	1.930	3.05
		0.000615	0.01562	6.00	2.731	5.78
		0.000517	0.01314	6.25	3.651	9.43
		0.000435	0.01105	6.50	4.687	14.12
Clay		0.000366	0.00929	6.75	5.789	19.91
		0.000308	0.00781	7.00	6.846	26.75
		0.000259	0.00657	7.25	7.723	34.48
		0.000217	0.00552	7.50	8.326	42.80
		0.000183	0.00465	7.75	8.596	51.40
		0.000154	0.00391	8.00	8.520	59.92
		0.000129	0.00328	8.25	8.002	67.92
		0.000109	0.00276	8.50	7.160	75.08
		0.000091	0.00232	8.75	6.111	81.19
		0.000077	0.00195	9.00	4.984	86.18
		0.000065	0.00164	9.25	3.900	90.08
		0.000054	0.00138	9.50	2.946	93.02
		0.000046	0.00116	9.75	2.160	95.18
		0.000038	0.00098	10.00	1.570	96.75
		0.000032	0.00082	10.25	1.149	97.90
	0.000027	0.00069	10.50	0.840	98.74	
	0.000023	0.00058	10.75	0.601	99.34	
	0.000019	0.00049	11.00	0.398	99.74	
	0.000016	0.00041	11.25	0.209	99.95	
	0.000015	0.00038	11.50	0.051	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0048	0.0048	0.0048	
Mean	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0055	0.0047	0.0047	
Sorting	Poor			
	1.720	1.154	1.153	
Skewness	Near symmetrical			
	0.994	0.103	0.042	
Kurtosis	Mesokurtic			
	0.241	0.647	0.996	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	59.92	40.08	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0006	0.0165	5.9241	
10	0.0005	0.0129	6.2781	
16	0.0004	0.0105	6.5766	
25	0.0003	0.0082	6.9318	
40	0.0002	0.0059	7.4109	
50	0.0002	0.0048	7.7063	
70	0.0001	0.0031	8.3183	
75	0.0001	0.0028	8.4970	
84	0.0001	0.0021	8.8855	
90	0.0001	0.0016	9.2447	
95	0.0000	0.0012	9.7272	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



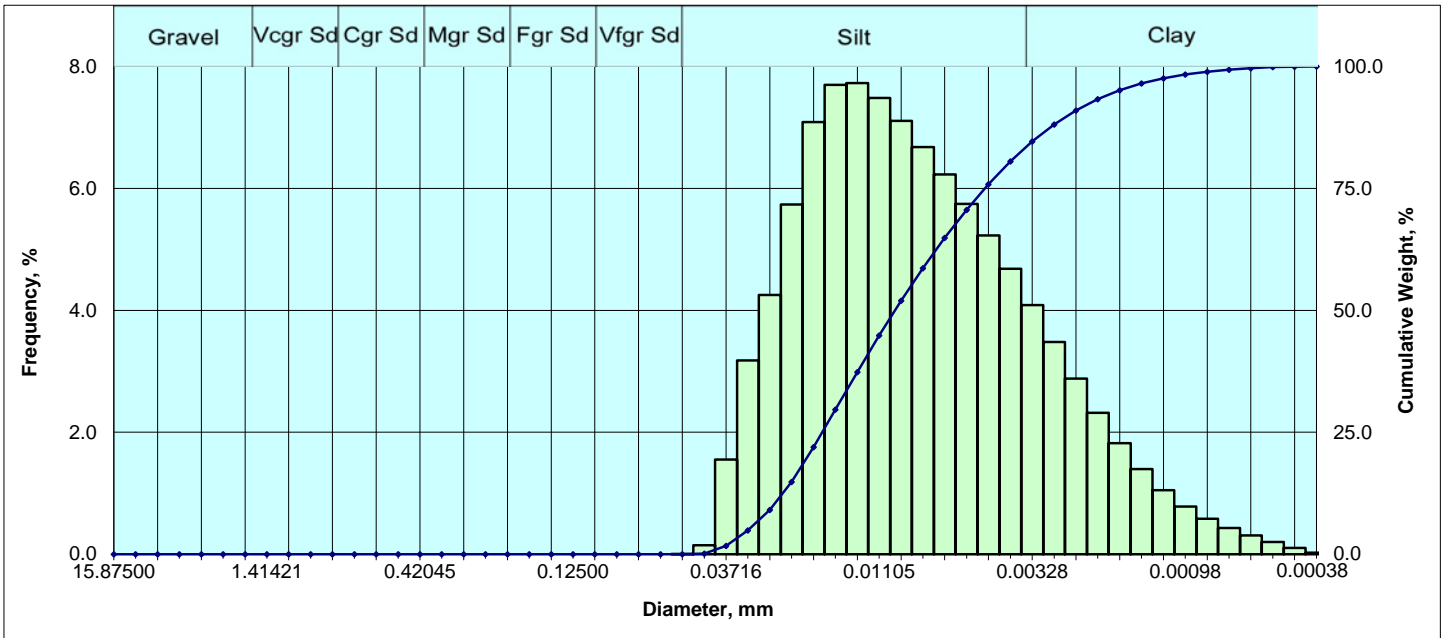
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.006	0.01
	270	0.002069	0.05256	4.25	0.415	0.42
	325	0.001740	0.04419	4.50	3.719	4.14
	400	0.001463	0.03716	4.75	5.845	9.99
	450	0.001230	0.03125	5.00	5.444	15.43
	500	0.001035	0.02628	5.25	5.258	20.69
	635	0.000870	0.02210	5.50	5.517	26.20
		0.000732	0.01858	5.75	5.932	32.14
		0.000615	0.01562	6.00	6.285	38.42
		0.000517	0.01314	6.25	6.477	44.90
		0.000435	0.01105	6.50	6.324	51.22
	0.000366	0.00929	6.75	5.958	57.18	
	0.000308	0.00781	7.00	5.523	62.71	
	0.000259	0.00657	7.25	5.068	67.77	
	0.000217	0.00552	7.50	4.616	72.39	
	0.000183	0.00465	7.75	4.180	76.57	
	0.000154	0.00391	8.00	3.760	80.33	
Clay		0.000129	0.00328	8.25	3.341	83.67
		0.000109	0.00276	8.50	2.930	86.60
		0.000091	0.00232	8.75	2.532	89.13
		0.000077	0.00195	9.00	2.163	91.29
		0.000065	0.00164	9.25	1.831	93.13
		0.000054	0.00138	9.50	1.545	94.67
		0.000046	0.00116	9.75	1.306	95.98
		0.000038	0.00098	10.00	1.100	97.08
		0.000032	0.00082	10.25	0.923	98.00
		0.000027	0.00069	10.50	0.752	98.75
		0.000023	0.00058	10.75	0.580	99.33
		0.000019	0.00049	11.00	0.403	99.73
		0.000016	0.00041	11.25	0.214	99.95
		0.000015	0.00038	11.50	0.052	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0115	0.0115	0.0115	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0140	0.0100	0.0104	
Sorting	Poor			
	2.151	1.625	1.574	
Skewness	Finely skewed			
	0.934	0.368	0.181	
Kurtosis	Mesokurtic			
	0.258	0.546	0.932	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.01	80.32	19.67	99.99
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0017	0.0432	4.5342
10		0.0015	0.0371	4.7506
16		0.0012	0.0307	5.0251
25		0.0009	0.0230	5.4416
40		0.0006	0.0150	6.0570
50		0.0005	0.0115	6.4481
70		0.0002	0.0061	7.3652
75		0.0002	0.0050	7.6510
84		0.0001	0.0032	8.2761
90		0.0001	0.0022	8.8452
95		0.0001	0.0013	9.5591

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



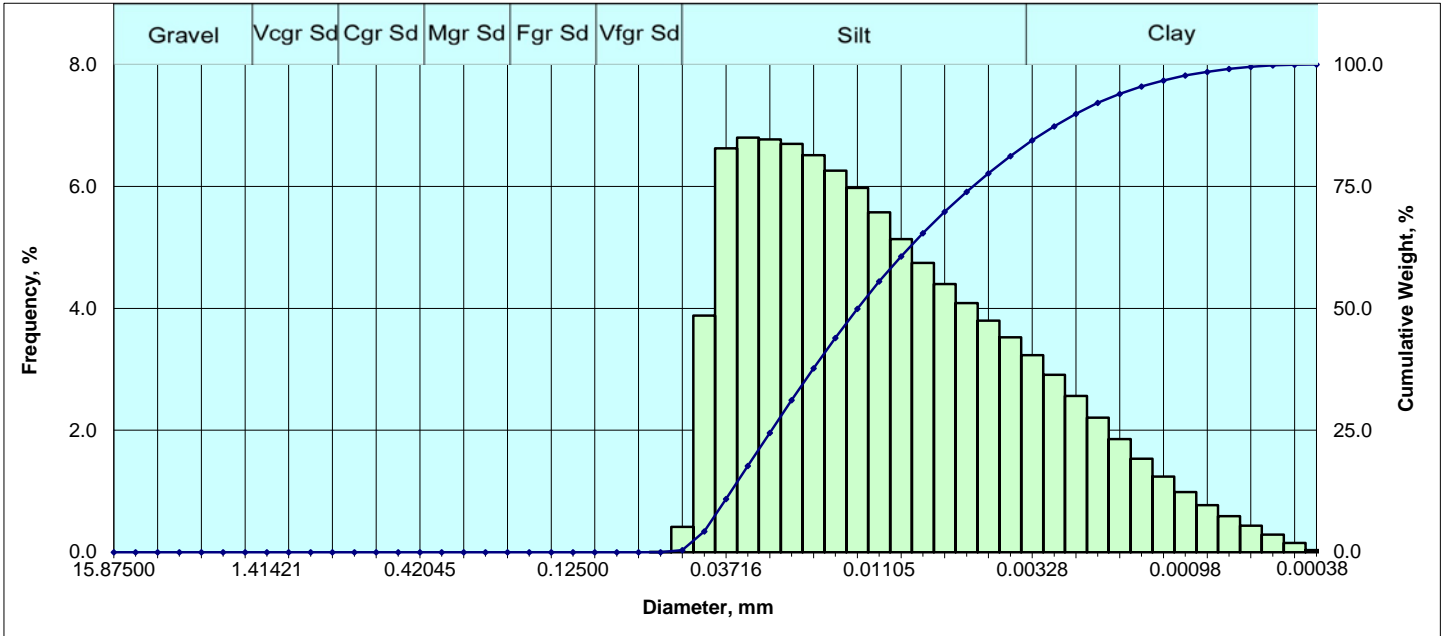
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.145	0.15
	400	0.001463	0.03716	4.75	1.551	1.70
	450	0.001230	0.03125	5.00	3.178	4.87
	500	0.001035	0.02628	5.25	4.251	9.13
	635	0.000870	0.02210	5.50	5.734	14.86
		0.000732	0.01858	5.75	7.089	21.95
		0.000615	0.01562	6.00	7.699	29.65
		0.000517	0.01314	6.25	7.729	37.38
		0.000435	0.01105	6.50	7.484	44.86
		0.000366	0.00929	6.75	7.106	51.97
		0.000308	0.00781	7.00	6.679	58.65
	0.000259	0.00657	7.25	6.231	64.88	
	0.000217	0.00552	7.50	5.746	70.62	
	0.000183	0.00465	7.75	5.227	75.85	
	0.000154	0.00391	8.00	4.681	80.53	
Clay		0.000129	0.00328	8.25	4.086	84.62
		0.000109	0.00276	8.50	3.479	88.10
		0.000091	0.00232	8.75	2.882	90.98
		0.000077	0.00195	9.00	2.321	93.30
		0.000065	0.00164	9.25	1.822	95.12
		0.000054	0.00138	9.50	1.396	96.52
		0.000046	0.00116	9.75	1.049	97.56
		0.000038	0.00098	10.00	0.781	98.35
		0.000032	0.00082	10.25	0.583	98.93
		0.000027	0.00069	10.50	0.430	99.36
		0.000023	0.00058	10.75	0.308	99.67
		0.000019	0.00049	11.00	0.203	99.87
		0.000016	0.00041	11.25	0.105	99.97
		0.000015	0.00038	11.50	0.026	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0098	0.0098	0.0098	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0004	
(mm)	0.0111	0.0085	0.0089	
Sorting	Poor			
	1.907	1.336	1.308	
Skewness	Finely skewed			
	0.934	0.332	0.179	
Kurtosis	Mesokurtic			
	0.272	0.581	0.930	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	80.53	19.47	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0012	0.0311	5.0068
10		0.0010	0.0256	5.2854
16		0.0008	0.0215	5.5374
25		0.0007	0.0174	5.8440
40		0.0005	0.0124	6.3328
50		0.0004	0.0098	6.6764
70		0.0002	0.0056	7.4708
75		0.0002	0.0048	7.7063
84		0.0001	0.0034	8.2094
90		0.0001	0.0025	8.6603
95		0.0001	0.0017	9.2322

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



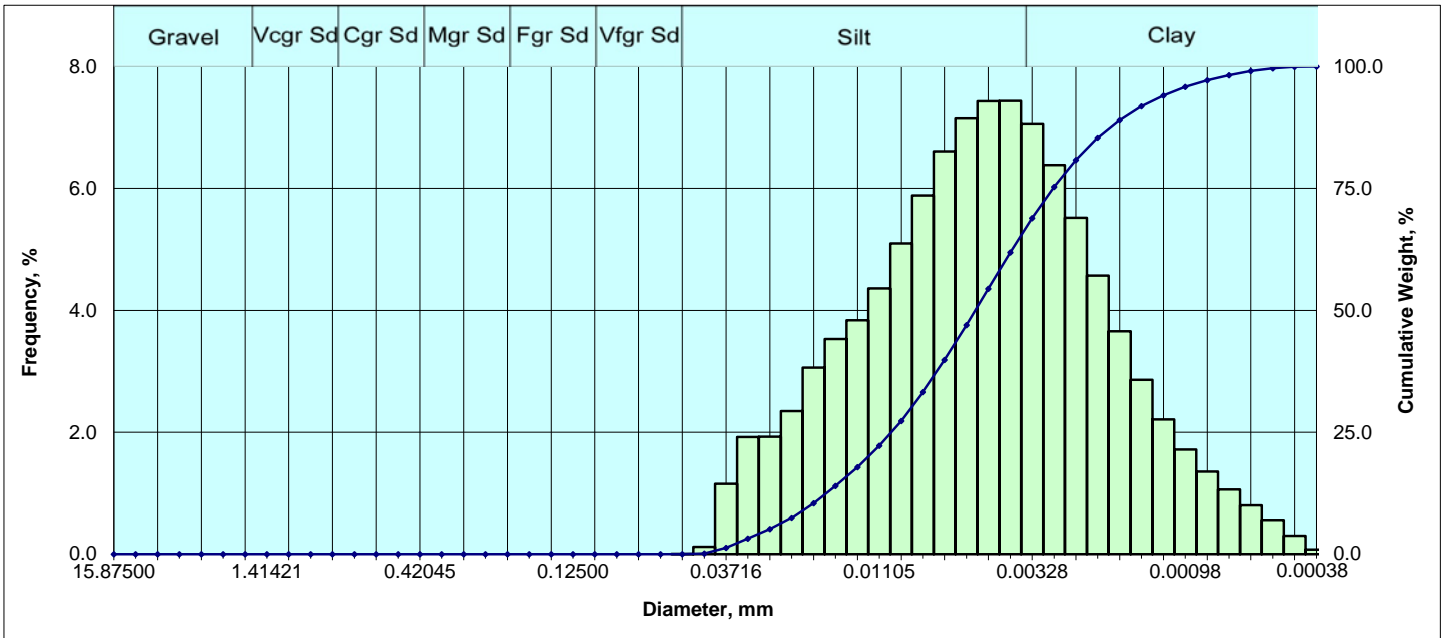
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.006	0.01
	270	0.002069	0.05256	4.25	0.415	0.42
	325	0.001740	0.04419	4.50	3.880	4.30
	400	0.001463	0.03716	4.75	6.622	10.92
	450	0.001230	0.03125	5.00	6.799	17.72
	500	0.001035	0.02628	5.25	6.769	24.49
	635	0.000870	0.02210	5.50	6.698	31.19
		0.000732	0.01858	5.75	6.511	37.70
		0.000615	0.01562	6.00	6.256	43.96
		0.000517	0.01314	6.25	5.976	49.93
		0.000435	0.01105	6.50	5.574	55.51
		0.000366	0.00929	6.75	5.138	60.64
	0.000308	0.00781	7.00	4.745	65.39	
	0.000259	0.00657	7.25	4.397	69.79	
	0.000217	0.00552	7.50	4.086	73.87	
	0.000183	0.00465	7.75	3.800	77.67	
	0.000154	0.00391	8.00	3.527	81.20	
Clay		0.000129	0.00328	8.25	3.231	84.43
		0.000109	0.00276	8.50	2.908	87.34
		0.000091	0.00232	8.75	2.562	89.90
		0.000077	0.00195	9.00	2.208	92.11
		0.000065	0.00164	9.25	1.858	93.97
		0.000054	0.00138	9.50	1.532	95.50
		0.000046	0.00116	9.75	1.239	96.74
		0.000038	0.00098	10.00	0.985	97.72
		0.000032	0.00082	10.25	0.775	98.50
		0.000027	0.00069	10.50	0.593	99.09
		0.000023	0.00058	10.75	0.434	99.52
		0.000019	0.00049	11.00	0.289	99.81
		0.000016	0.00041	11.25	0.150	99.96
		0.000015	0.00038	11.50	0.037	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0131	0.0131	0.0131	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0156	0.0105	0.0113	
Sorting	Poor			
	2.221	1.641	1.561	
Skewness	Finely skewed			
	0.891	0.437	0.244	
Kurtosis	Platykurtic			
	0.289	0.490	0.870	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.01	81.19	18.80	99.99
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0017	0.0435	4.5244	
10	0.0015	0.0381	4.7124	
16	0.0013	0.0327	4.9324	
25	0.0010	0.0260	5.2675	
40	0.0007	0.0175	5.8369	
50	0.0005	0.0131	6.2528	
70	0.0003	0.0065	7.2620	
75	0.0002	0.0053	7.5698	
84	0.0001	0.0034	8.2141	
90	0.0001	0.0023	8.7604	
95	0.0001	0.0015	9.4139	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



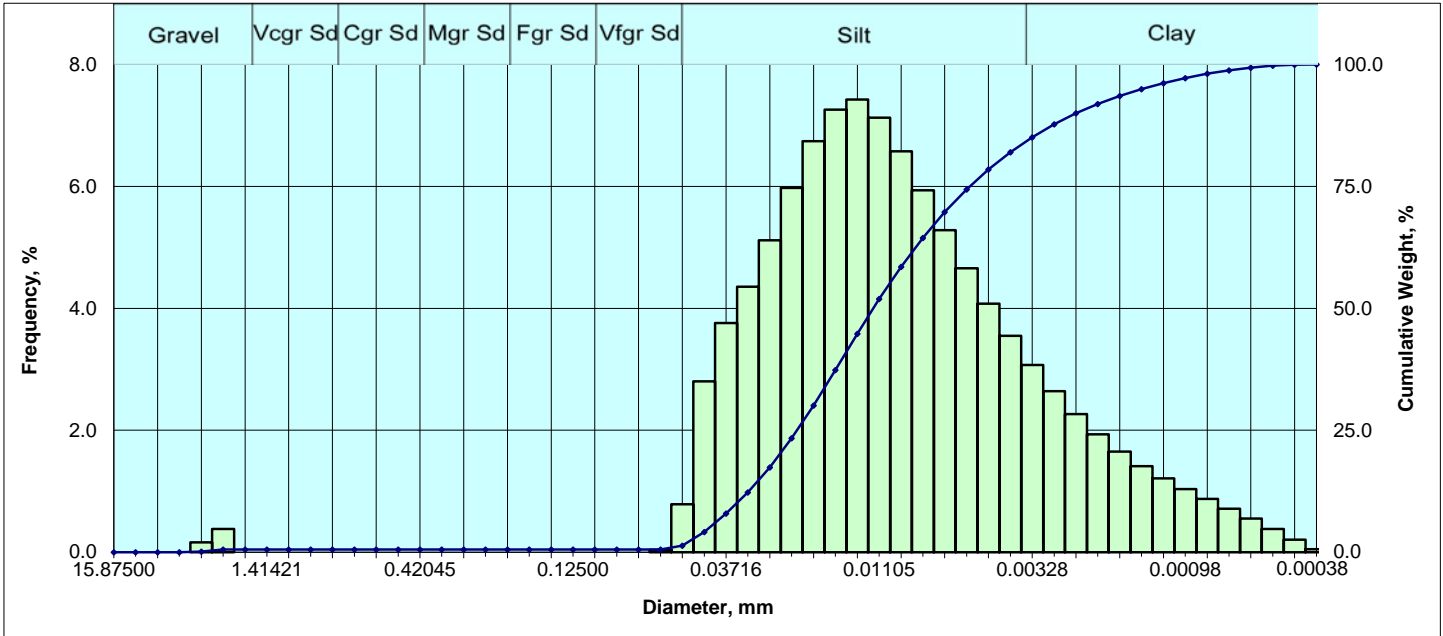
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.118	0.12
	400	0.001463	0.03716	4.75	1.158	1.28
	450	0.001230	0.03125	5.00	1.923	3.20
	500	0.001035	0.02628	5.25	1.928	5.13
	635	0.000870	0.02210	5.50	2.350	7.48
		0.000732	0.01858	5.75	3.059	10.54
		0.000615	0.01562	6.00	3.529	14.07
		0.000517	0.01314	6.25	3.839	17.91
		0.000435	0.01105	6.50	4.359	22.26
		0.000366	0.00929	6.75	5.094	27.36
		0.000308	0.00781	7.00	5.882	33.24
	0.000259	0.00657	7.25	6.606	39.85	
	0.000217	0.00552	7.50	7.151	47.00	
	0.000183	0.00465	7.75	7.432	54.43	
	0.000154	0.00391	8.00	7.437	61.87	
Clay		0.000129	0.00328	8.25	7.057	68.92
		0.000109	0.00276	8.50	6.381	75.31
		0.000091	0.00232	8.75	5.514	80.82
		0.000077	0.00195	9.00	4.569	85.39
		0.000065	0.00164	9.25	3.656	89.04
		0.000054	0.00138	9.50	2.860	91.90
		0.000046	0.00116	9.75	2.211	94.12
		0.000038	0.00098	10.00	1.720	95.84
		0.000032	0.00082	10.25	1.358	97.19
		0.000027	0.00069	10.50	1.066	98.26
		0.000023	0.00058	10.75	0.809	99.07
		0.000019	0.00049	11.00	0.559	99.63
		0.000016	0.00041	11.25	0.299	99.93
		0.000015	0.00038	11.50	0.073	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0052	0.0052	0.0052	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0002	
(mm)	0.0064	0.0054	0.0054	
Sorting	Poor			
	1.904	1.399	1.403	
Skewness	Near symmetrical			
	1.027	-0.031	-0.036	
Kurtosis	Mesokurtic			
	0.207	0.658	1.024	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	61.87	38.13	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0010	0.0266	5.2320
10		0.0008	0.0192	5.7028
16		0.0006	0.0144	6.1205
25		0.0004	0.0101	6.6289
40		0.0003	0.0065	7.2549
50		0.0002	0.0052	7.5958
70		0.0001	0.0032	8.2892
75		0.0001	0.0028	8.4870
84		0.0001	0.0021	8.9193
90		0.0001	0.0016	9.3288
95		0.0000	0.0011	9.8732

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



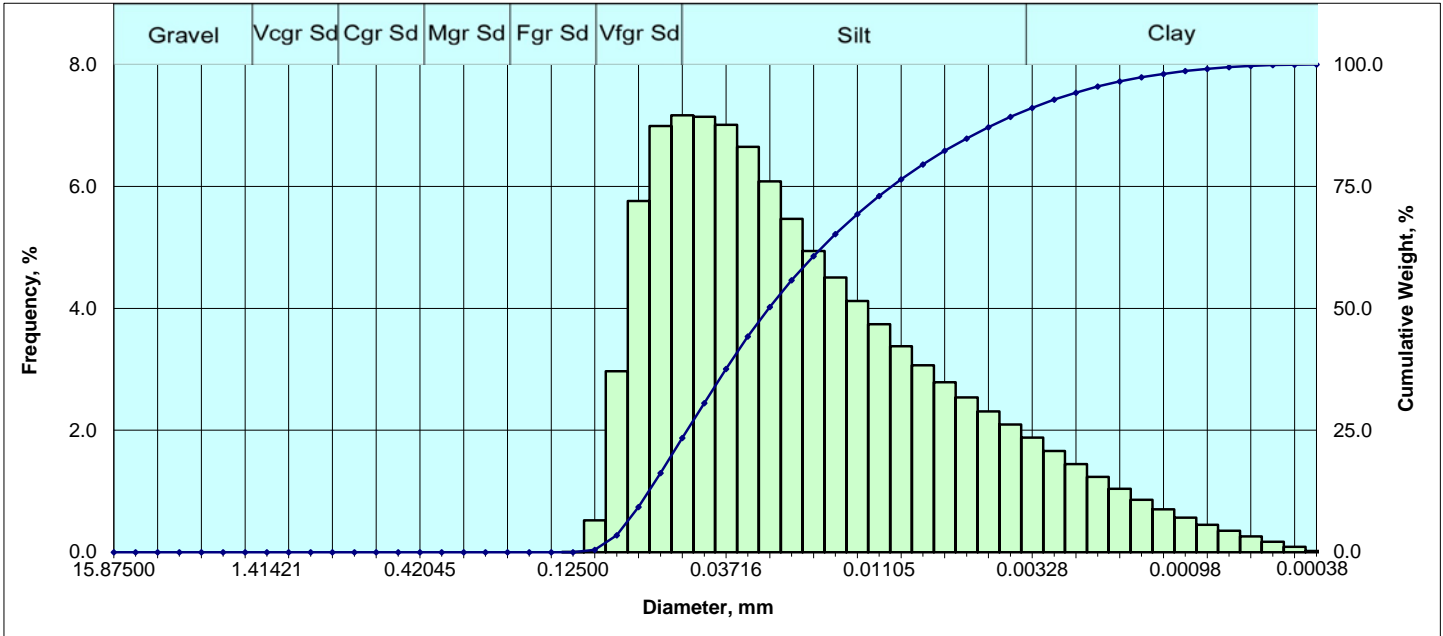
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.164	0.16
V Crse Sand	10	0.078740	2.00000	-1.00	0.383	0.55
	12	0.066212	1.68179	-0.75	0.000	0.55
	14	0.055678	1.41421	-0.50	0.000	0.55
	16	0.046819	1.18921	-0.25	0.000	0.55
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.55
	20	0.033106	0.84090	0.25	0.000	0.55
	25	0.027839	0.70711	0.50	0.000	0.55
	30	0.023410	0.59460	0.75	0.000	0.55
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.55
	40	0.016553	0.42045	1.25	0.000	0.55
	45	0.013919	0.35355	1.50	0.000	0.55
	50	0.011705	0.29730	1.75	0.000	0.55
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.55
	70	0.008277	0.21022	2.25	0.000	0.55
	80	0.006960	0.17678	2.50	0.000	0.55
	100	0.005852	0.14865	2.75	0.000	0.55
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.55
	140	0.004138	0.10511	3.25	0.000	0.55
	170	0.003480	0.08839	3.50	0.000	0.55
	200	0.002926	0.07433	3.75	0.000	0.55
Silt	230	0.002461	0.06250	4.00	0.040	0.59
	270	0.002069	0.05256	4.25	0.787	1.37
	325	0.001740	0.04419	4.50	2.805	4.18
	400	0.001463	0.03716	4.75	3.759	7.94
	450	0.001230	0.03125	5.00	4.356	12.29
	500	0.001035	0.02628	5.25	5.114	17.41
	635	0.000870	0.02210	5.50	5.974	23.38
		0.000732	0.01858	5.75	6.742	30.12
		0.000615	0.01562	6.00	7.260	37.38
		0.000517	0.01314	6.25	7.424	44.81
		0.000435	0.01105	6.50	7.126	51.93
		0.000366	0.00929	6.75	6.575	58.51
	0.000308	0.00781	7.00	5.935	64.44	
	0.000259	0.00657	7.25	5.282	69.72	
	0.000217	0.00552	7.50	4.656	74.38	
	0.000183	0.00465	7.75	4.075	78.46	
	0.000154	0.00391	8.00	3.547	82.00	
Clay		0.000129	0.00328	8.25	3.070	85.07
		0.000109	0.00276	8.50	2.643	87.72
		0.000091	0.00232	8.75	2.264	89.98
		0.000077	0.00195	9.00	1.934	91.91
		0.000065	0.00164	9.25	1.650	93.56
		0.000054	0.00138	9.50	1.411	94.97
		0.000046	0.00116	9.75	1.211	96.19
		0.000038	0.00098	10.00	1.034	97.22
		0.000032	0.00082	10.25	0.875	98.09
		0.000027	0.00069	10.50	0.716	98.81
		0.000023	0.00058	10.75	0.553	99.36
		0.000019	0.00049	11.00	0.384	99.75
		0.000016	0.00041	11.25	0.204	99.95
		0.000015	0.00038	11.50	0.050	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0116	0.0116	0.0116	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0133	0.0098	0.0104	
Sorting	Poor			
	1.986	1.490	1.496	
Skewness	Finely skewed			
	0.921	0.403	0.201	
Kurtosis	Mesokurtic			
	0.248	0.662	1.026	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.55	0.04	81.42	18.00	99.41
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0017	0.0427	4.5511	
10	0.0014	0.0344	4.8630	
16	0.0011	0.0276	5.1768	
25	0.0008	0.0213	5.5562	
40	0.0006	0.0147	6.0833	
50	0.0005	0.0116	6.4278	
70	0.0003	0.0065	7.2636	
75	0.0002	0.0054	7.5353	
84	0.0001	0.0035	8.1576	
90	0.0001	0.0023	8.7525	
95	0.0001	0.0014	9.5049	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



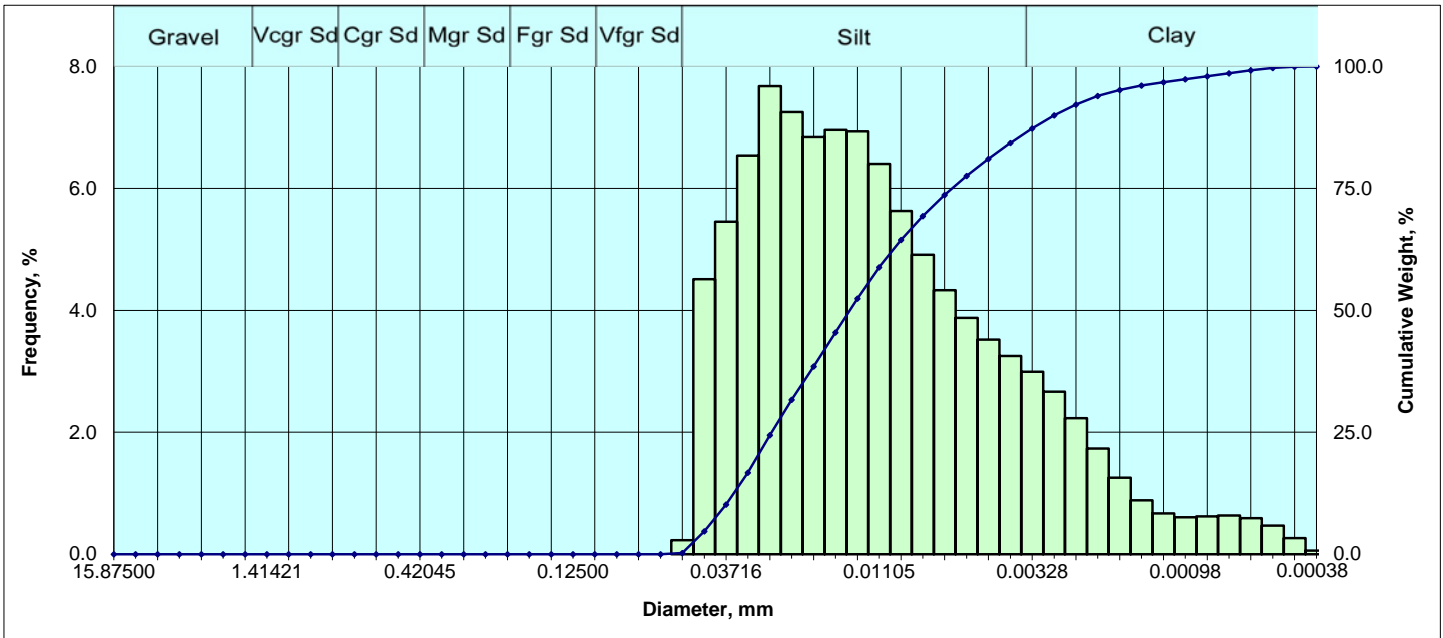
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.008	0.01
	140	0.004138	0.10511	3.25	0.524	0.53
	170	0.003480	0.08839	3.50	2.970	3.50
	200	0.002926	0.07433	3.75	5.759	9.26
Silt	230	0.002461	0.06250	4.00	6.992	16.25
	270	0.002069	0.05256	4.25	7.166	23.42
	325	0.001740	0.04419	4.50	7.139	30.56
	400	0.001463	0.03716	4.75	7.011	37.57
	450	0.001230	0.03125	5.00	6.651	44.22
	500	0.001035	0.02628	5.25	6.081	50.30
	635	0.000870	0.02210	5.50	5.468	55.77
		0.000732	0.01858	5.75	4.939	60.71
		0.000615	0.01562	6.00	4.505	65.21
		0.000517	0.01314	6.25	4.120	69.33
		0.000435	0.01105	6.50	3.738	73.07
Clay		0.000366	0.00929	6.75	3.381	76.45
		0.000308	0.00781	7.00	3.065	79.52
		0.000259	0.00657	7.25	2.788	82.31
		0.000217	0.00552	7.50	2.538	84.84
		0.000183	0.00465	7.75	2.308	87.15
		0.000154	0.00391	8.00	2.095	89.25
		0.000129	0.00328	8.25	1.879	91.13
		0.000109	0.00276	8.50	1.663	92.79
		0.000091	0.00232	8.75	1.447	94.24
		0.000077	0.00195	9.00	1.238	95.47
		0.000065	0.00164	9.25	1.041	96.52
		0.000054	0.00138	9.50	0.862	97.38
		0.000046	0.00116	9.75	0.704	98.08
		0.000038	0.00098	10.00	0.568	98.65
		0.000032	0.00082	10.25	0.453	99.10
	0.000027	0.00069	10.50	0.351	99.45	
	0.000023	0.00058	10.75	0.260	99.71	
	0.000019	0.00049	11.00	0.174	99.89	
	0.000016	0.00041	11.25	0.091	99.98	
	0.000015	0.00038	11.50	0.022	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0265	0.0265	0.0265	
Mean	Silt sized			
(in)	0.0012	0.0008	0.0008	
(mm)	0.0304	0.0192	0.0214	
Sorting	Poor			
	2.247	1.711	1.664	
Skewness	Strongly fine skewed			
	0.851	0.581	0.322	
Kurtosis	Mesokurtic			
	0.293	0.560	0.937	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	16.25	72.99	10.75	83.75
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0033	0.0847	3.5610
10		0.0029	0.0731	3.7745
16		0.0025	0.0629	3.9901
25		0.0020	0.0507	4.3017
40		0.0014	0.0350	4.8364
50		0.0010	0.0265	5.2365
70		0.0005	0.0128	6.2915
75		0.0004	0.0100	6.6372
84		0.0002	0.0059	7.4120
90		0.0001	0.0037	8.0951
95		0.0001	0.0021	8.8992

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



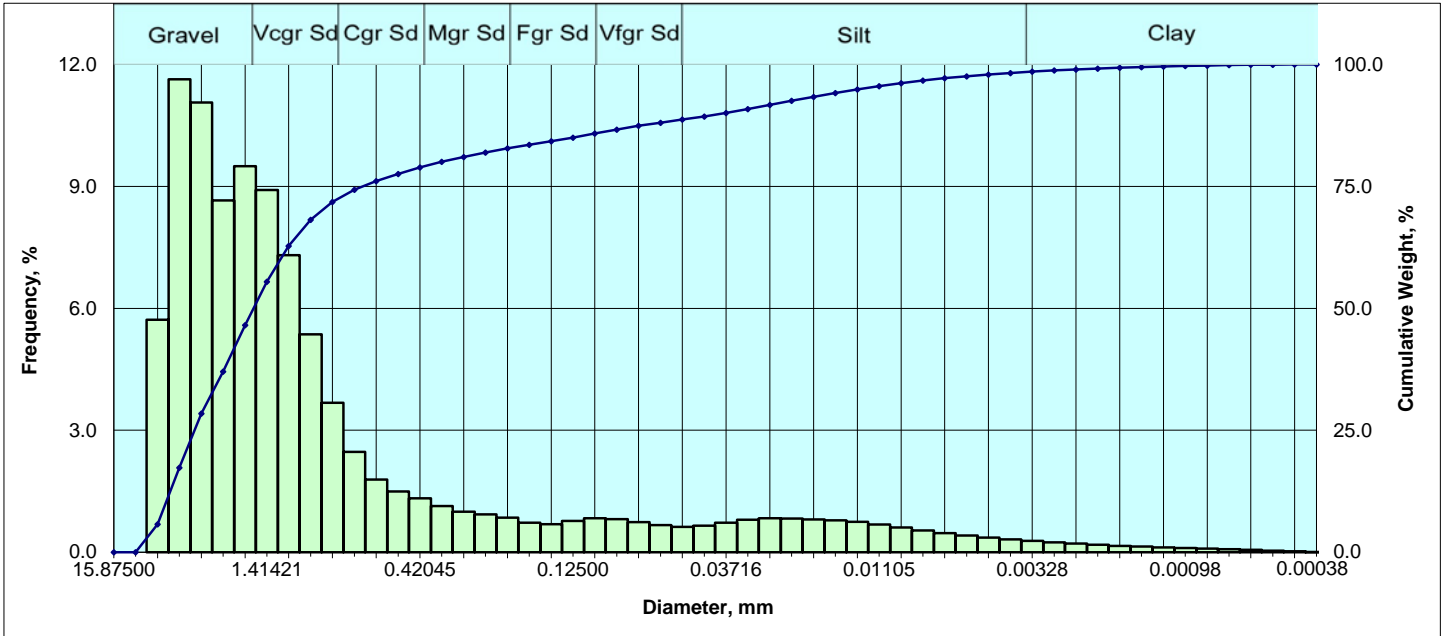
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.229	0.23
	325	0.001740	0.04419	4.50	4.509	4.74
	400	0.001463	0.03716	4.75	5.455	10.19
	450	0.001230	0.03125	5.00	6.536	16.73
	500	0.001035	0.02628	5.25	7.680	24.41
	635	0.000870	0.02210	5.50	7.256	31.66
		0.000732	0.01858	5.75	6.842	38.51
		0.000615	0.01562	6.00	6.960	45.47
		0.000517	0.01314	6.25	6.935	52.40
		0.000435	0.01105	6.50	6.400	58.80
		0.000366	0.00929	6.75	5.630	64.43
	0.000308	0.00781	7.00	4.909	69.34	
	0.000259	0.00657	7.25	4.331	73.67	
	0.000217	0.00552	7.50	3.875	77.55	
	0.000183	0.00465	7.75	3.518	81.06	
	0.000154	0.00391	8.00	3.253	84.32	
Clay		0.000129	0.00328	8.25	2.994	87.31
		0.000109	0.00276	8.50	2.665	89.98
		0.000091	0.00232	8.75	2.233	92.21
		0.000077	0.00195	9.00	1.733	93.94
		0.000065	0.00164	9.25	1.255	95.20
		0.000054	0.00138	9.50	0.885	96.08
		0.000046	0.00116	9.75	0.672	96.75
		0.000038	0.00098	10.00	0.607	97.36
		0.000032	0.00082	10.25	0.620	97.98
		0.000027	0.00069	10.50	0.634	98.61
		0.000023	0.00058	10.75	0.593	99.21
		0.000019	0.00049	11.00	0.469	99.68
		0.000016	0.00041	11.25	0.265	99.94
		0.000015	0.00038	11.50	0.058	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0140	0.0140	0.0140	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0005	
(mm)	0.0161	0.0113	0.0121	
Sorting	Poor			
	2.044	1.502	1.463	
Skewness	Finely skewed			
	0.907	0.467	0.254	
Kurtosis	Mesokurtic			
	0.285	0.564	0.933	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	84.32	15.68	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0017	0.0439	4.5111
10		0.0015	0.0374	4.7404
16		0.0013	0.0319	4.9699
25		0.0010	0.0259	5.2688
40		0.0007	0.0179	5.8001
50		0.0006	0.0140	6.1585
70		0.0003	0.0076	7.0354
75		0.0002	0.0062	7.3309
84		0.0002	0.0040	7.9736
90		0.0001	0.0028	8.5024
95		0.0001	0.0017	9.2077

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



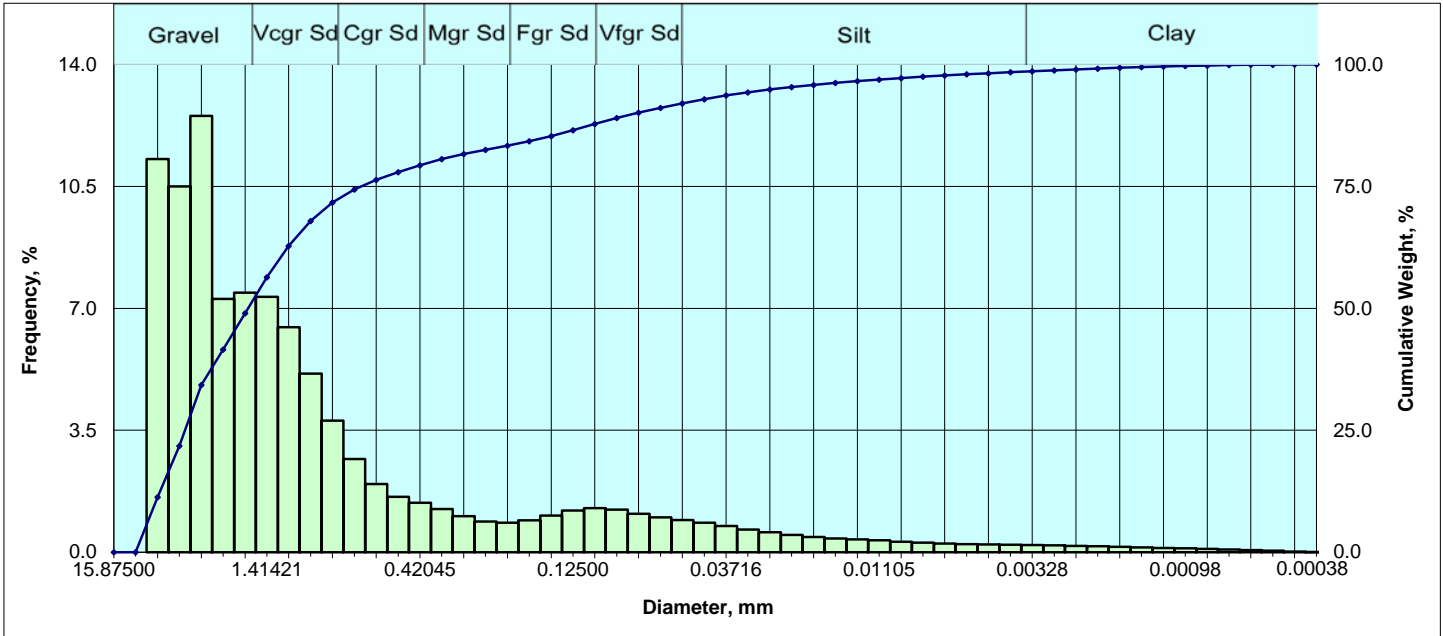
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	5.723	5.72
	6	0.131890	3.35000	-1.75	11.635	17.36
	8	0.092913	2.36000	-1.25	11.066	28.42
V Crse Sand	10	0.078740	2.00000	-1.00	8.652	37.08
	12	0.066212	1.68179	-0.75	9.499	46.58
	14	0.055678	1.41421	-0.50	8.909	55.48
	16	0.046819	1.18921	-0.25	7.307	62.79
Coarse Sand	18	0.039370	1.00000	0.00	5.363	68.16
	20	0.033106	0.84090	0.25	3.676	71.83
	25	0.027839	0.70711	0.50	2.472	74.30
	30	0.023410	0.59460	0.75	1.789	76.09
Medium Sand	35	0.019685	0.50000	1.00	1.494	77.59
	40	0.016553	0.42045	1.25	1.328	78.91
	45	0.013919	0.35355	1.50	1.134	80.05
	50	0.011705	0.29730	1.75	0.998	81.05
Fine Sand	60	0.009843	0.25000	2.00	0.934	81.98
	70	0.008277	0.21022	2.25	0.851	82.83
	80	0.006960	0.17678	2.50	0.727	83.56
	100	0.005852	0.14865	2.75	0.691	84.25
V. Fine Sand	120	0.004921	0.12500	3.00	0.770	85.02
	140	0.004138	0.10511	3.25	0.834	85.85
	170	0.003480	0.08839	3.50	0.815	86.67
	200	0.002926	0.07433	3.75	0.742	87.41
Silt	230	0.002461	0.06250	4.00	0.665	88.08
	270	0.002069	0.05256	4.25	0.625	88.70
	325	0.001740	0.04419	4.50	0.653	89.35
	400	0.001463	0.03716	4.75	0.728	90.08
	450	0.001230	0.03125	5.00	0.802	90.88
	500	0.001035	0.02628	5.25	0.835	91.72
	635	0.000870	0.02210	5.50	0.828	92.55
		0.000732	0.01858	5.75	0.809	93.36
		0.000615	0.01562	6.00	0.787	94.14
		0.000517	0.01314	6.25	0.749	94.89
		0.000435	0.01105	6.50	0.683	95.57
Clay		0.000366	0.00929	6.75	0.607	96.18
		0.000308	0.00781	7.00	0.534	96.72
		0.000259	0.00657	7.25	0.468	97.18
		0.000217	0.00552	7.50	0.409	97.59
		0.000183	0.00465	7.75	0.359	97.95
		0.000154	0.00391	8.00	0.315	98.27
		0.000129	0.00328	8.25	0.277	98.54
		0.000109	0.00276	8.50	0.242	98.79
		0.000091	0.00232	8.75	0.211	99.00
		0.000077	0.00195	9.00	0.183	99.18
		0.000065	0.00164	9.25	0.159	99.34
		0.000054	0.00138	9.50	0.138	99.48
		0.000046	0.00116	9.75	0.121	99.60
		0.000038	0.00098	10.00	0.106	99.70
		0.000032	0.00082	10.25	0.091	99.79
	0.000027	0.00069	10.50	0.076	99.87	
	0.000023	0.00058	10.75	0.060	99.93	
	0.000019	0.00049	11.00	0.042	99.97	
	0.000016	0.00041	11.25	0.022	99.99	
	0.000015	0.00038	11.50	0.005	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0622	0.0622	0.0622	
(mm)	1.5789	1.5789	1.5789	
Mean	Coarse sand sized			
(in)	0.0655	0.0294	0.0377	
(mm)	1.6648	0.7470	0.9586	
Sorting	Very poor			
	2.005	2.234	2.436	
Skewness	Strongly fine skewed			
	0.842	1.161	0.539	
Kurtosis	Very leptokurtic			
	0.239	0.949	1.778	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
37.08	51.00	10.19	1.73	11.92
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2106	5.3499	-2.4195	
10	0.1667	4.2354	-2.0825	
16	0.1383	3.5134	-1.8129	
25	0.1050	2.6663	-1.4149	
40	0.0749	1.9021	-0.9276	
50	0.0622	1.5789	-0.6590	
70	0.0362	0.9202	0.1200	
75	0.0261	0.6633	0.5923	
84	0.0063	0.1588	2.6546	
90	0.0015	0.0380	4.7194	
95	0.0005	0.0128	6.2869	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



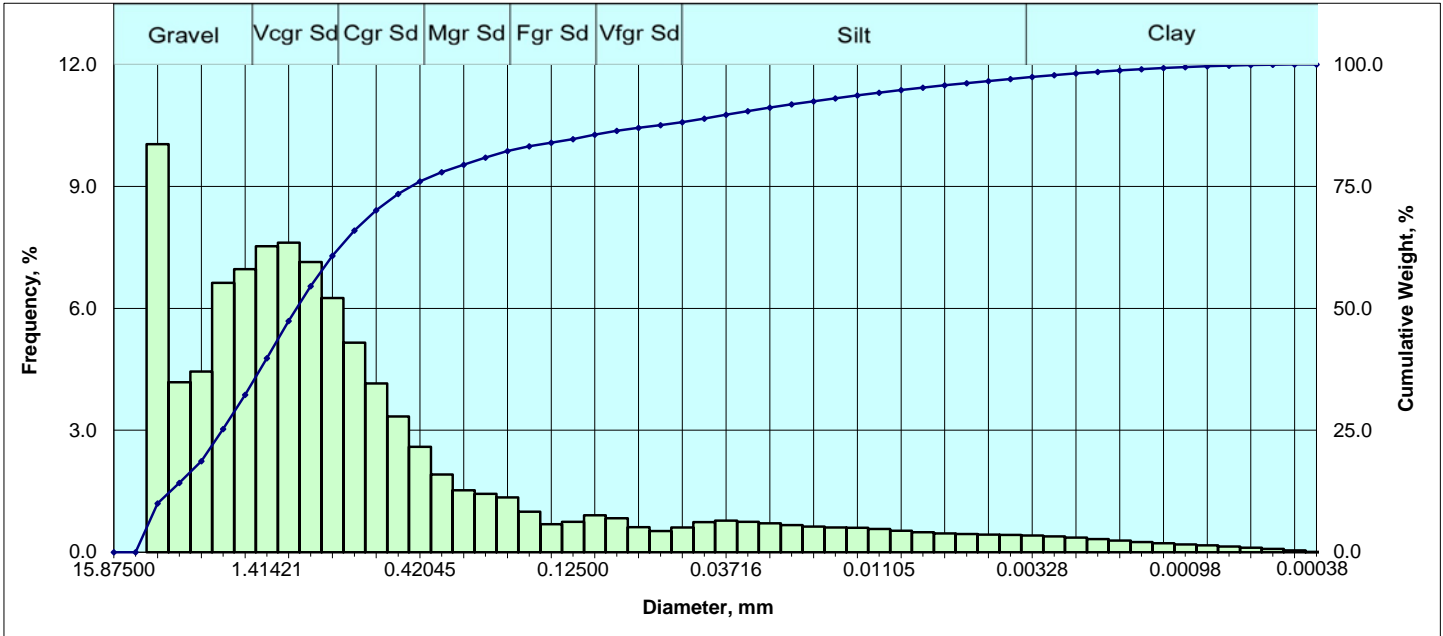
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	11.284	11.28
	6	0.131890	3.35000	-1.75	10.495	21.78
	8	0.092913	2.36000	-1.25	12.523	34.30
V Crse Sand	10	0.078740	2.00000	-1.00	7.275	41.58
	12	0.066212	1.68179	-0.75	7.450	49.03
	14	0.055678	1.41421	-0.50	7.333	56.36
	16	0.046819	1.18921	-0.25	6.462	62.82
Coarse Sand	18	0.039370	1.00000	0.00	5.125	67.95
	20	0.033106	0.84090	0.25	3.775	71.72
	25	0.027839	0.70711	0.50	2.677	74.40
	30	0.023410	0.59460	0.75	1.955	76.35
Medium Sand	35	0.019685	0.50000	1.00	1.587	77.94
	40	0.016553	0.42045	1.25	1.417	79.36
	45	0.013919	0.35355	1.50	1.240	80.60
	50	0.011705	0.29730	1.75	1.034	81.63
Fine Sand	60	0.009843	0.25000	2.00	0.881	82.51
	70	0.008277	0.21022	2.25	0.848	83.36
	80	0.006960	0.17678	2.50	0.915	84.27
	100	0.005852	0.14865	2.75	1.054	85.33
V. Fine Sand	120	0.004921	0.12500	3.00	1.195	86.52
	140	0.004138	0.10511	3.25	1.265	87.79
	170	0.003480	0.08839	3.50	1.220	89.01
	200	0.002926	0.07433	3.75	1.106	90.11
Silt	230	0.002461	0.06250	4.00	1.002	91.12
	270	0.002069	0.05256	4.25	0.926	92.04
	325	0.001740	0.04419	4.50	0.849	92.89
	400	0.001463	0.03716	4.75	0.751	93.64
	450	0.001230	0.03125	5.00	0.655	94.30
	500	0.001035	0.02628	5.25	0.571	94.87
	635	0.000870	0.02210	5.50	0.496	95.36
		0.000732	0.01858	5.75	0.437	95.80
		0.000615	0.01562	6.00	0.399	96.20
		0.000517	0.01314	6.25	0.372	96.57
		0.000435	0.01105	6.50	0.340	96.91
		0.000366	0.00929	6.75	0.305	97.22
		0.000308	0.00781	7.00	0.275	97.49
	0.000259	0.00657	7.25	0.252	97.74	
	0.000217	0.00552	7.50	0.234	97.98	
	0.000183	0.00465	7.75	0.221	98.20	
	0.000154	0.00391	8.00	0.213	98.41	
Clay		0.000129	0.00328	8.25	0.204	98.62
		0.000109	0.00276	8.50	0.195	98.81
		0.000091	0.00232	8.75	0.183	98.99
		0.000077	0.00195	9.00	0.169	99.16
		0.000065	0.00164	9.25	0.155	99.32
		0.000054	0.00138	9.50	0.140	99.46
		0.000046	0.00116	9.75	0.125	99.58
		0.000038	0.00098	10.00	0.110	99.69
		0.000032	0.00082	10.25	0.095	99.79
		0.000027	0.00069	10.50	0.079	99.87
		0.000023	0.00058	10.75	0.061	99.93
		0.000019	0.00049	11.00	0.043	99.97
		0.000016	0.00041	11.25	0.023	99.99
		0.000015	0.00038	11.50	0.006	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0648	0.0648	0.0648	
(mm)	1.6463	1.6463	1.6463	
Mean	Very coarse sand sized			
(in)	0.0742	0.0345	0.0426	
(mm)	1.8839	0.8774	1.0822	
Sorting	Very poor			
	2.146	2.232	2.358	
Skewness	Strongly fine skewed			
	0.876	0.866	0.439	
Kurtosis	Very leptokurtic			
	0.232	0.837	1.525	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
41.58	49.54	7.30	1.59	8.88
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2911	7.3952	-2.8866	
10	0.2083	5.2904	-2.4034	
16	0.1622	4.1209	-2.0430	
25	0.1219	3.0954	-1.6301	
40	0.0818	2.0780	-1.0552	
50	0.0648	1.6463	-0.7192	
70	0.0360	0.9134	0.1306	
75	0.0265	0.6724	0.5725	
84	0.0074	0.1868	2.4203	
90	0.0030	0.0758	3.7220	
95	0.0010	0.0252	5.3121	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



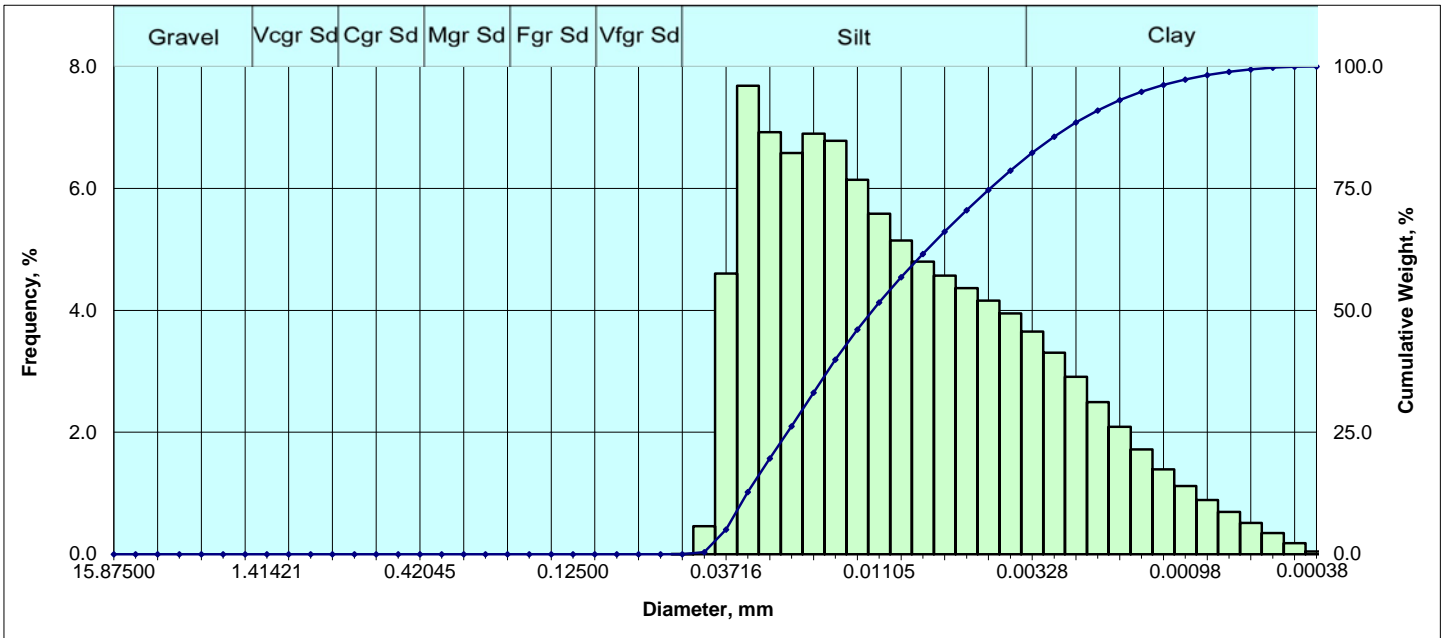
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	10.037	10.04
	6	0.131890	3.35000	-1.75	4.180	14.22
	8	0.092913	2.36000	-1.25	4.446	18.66
V Crse Sand	10	0.078740	2.00000	-1.00	6.629	25.29
	12	0.066212	1.68179	-0.75	6.968	32.26
	14	0.055678	1.41421	-0.50	7.525	39.79
	16	0.046819	1.18921	-0.25	7.619	47.40
Coarse Sand	18	0.039370	1.00000	0.00	7.137	54.54
	20	0.033106	0.84090	0.25	6.252	60.79
	25	0.027839	0.70711	0.50	5.157	65.95
	30	0.023410	0.59460	0.75	4.152	70.10
Medium Sand	35	0.019685	0.50000	1.00	3.338	73.44
	40	0.016553	0.42045	1.25	2.596	76.04
	45	0.013919	0.35355	1.50	1.914	77.95
	50	0.011705	0.29730	1.75	1.522	79.47
Fine Sand	60	0.009843	0.25000	2.00	1.440	80.91
	70	0.008277	0.21022	2.25	1.345	82.26
	80	0.006960	0.17678	2.50	0.996	83.25
	100	0.005852	0.14865	2.75	0.691	83.94
V. Fine Sand	120	0.004921	0.12500	3.00	0.745	84.69
	140	0.004138	0.10511	3.25	0.906	85.60
	170	0.003480	0.08839	3.50	0.833	86.43
	200	0.002926	0.07433	3.75	0.614	87.04
Silt	230	0.002461	0.06250	4.00	0.521	87.56
	270	0.002069	0.05256	4.25	0.607	88.17
	325	0.001740	0.04419	4.50	0.740	88.91
	400	0.001463	0.03716	4.75	0.775	89.69
	450	0.001230	0.03125	5.00	0.748	90.43
	500	0.001035	0.02628	5.25	0.708	91.14
	635	0.000870	0.02210	5.50	0.667	91.81
		0.000732	0.01858	5.75	0.630	92.44
		0.000615	0.01562	6.00	0.612	93.05
		0.000517	0.01314	6.25	0.602	93.65
		0.000435	0.01105	6.50	0.571	94.22
Clay		0.000366	0.00929	6.75	0.528	94.75
		0.000308	0.00781	7.00	0.491	95.24
		0.000259	0.00657	7.25	0.465	95.71
		0.000217	0.00552	7.50	0.447	96.16
		0.000183	0.00465	7.75	0.435	96.59
		0.000154	0.00391	8.00	0.425	97.02
		0.000129	0.00328	8.25	0.410	97.43
		0.000109	0.00276	8.50	0.388	97.81
		0.000091	0.00232	8.75	0.357	98.17
		0.000077	0.00195	9.00	0.322	98.49
		0.000065	0.00164	9.25	0.286	98.78
		0.000054	0.00138	9.50	0.252	99.03
		0.000046	0.00116	9.75	0.222	99.25
		0.000038	0.00098	10.00	0.194	99.45
		0.000032	0.00082	10.25	0.169	99.62
	0.000027	0.00069	10.50	0.141	99.76	
	0.000023	0.00058	10.75	0.112	99.87	
	0.000019	0.00049	11.00	0.079	99.95	
	0.000016	0.00041	11.25	0.042	99.99	
	0.000015	0.00038	11.50	0.010	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0441	0.0441	0.0441	
(mm)	1.1204	1.1204	1.1204	
Mean	Coarse sand sized			
(in)	0.0486	0.0259	0.0310	
(mm)	1.2341	0.6586	0.7862	
Sorting	Very poor			
	2.111	2.165	2.553	
Skewness	Strongly fine skewed			
	0.852	1.008	0.402	
Kurtosis	Very leptokurtic			
	0.165	1.242	1.845	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
25.29	62.27	9.45	2.98	12.44
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2809	7.1338	-2.8347	
10	0.1877	4.7676	-2.2533	
16	0.1163	2.9531	-1.5622	
25	0.0794	2.0159	-1.0114	
40	0.0554	1.4079	-0.4935	
50	0.0441	1.1204	-0.1640	
70	0.0235	0.5974	0.7432	
75	0.0178	0.4522	1.1449	
84	0.0058	0.1469	2.7672	
90	0.0014	0.0347	4.8494	
95	0.0003	0.0085	6.8709	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



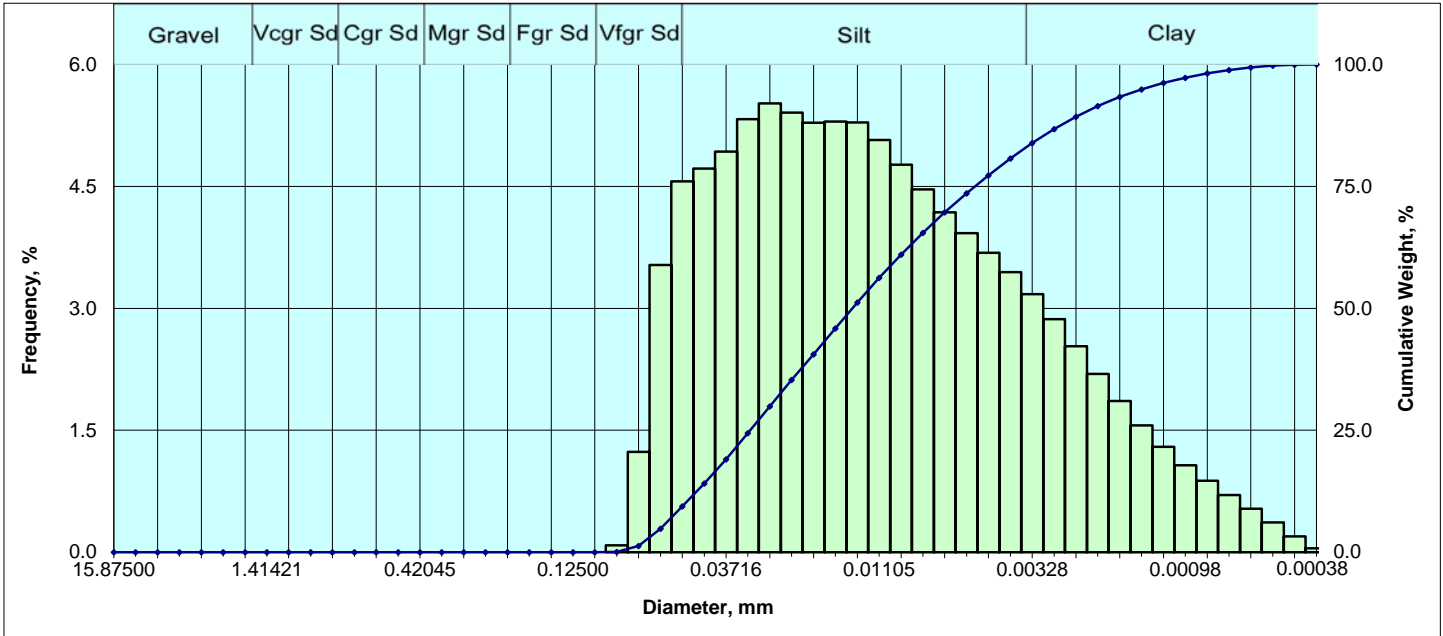
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.001	0.00
	325	0.001740	0.04419	4.50	0.461	0.46
	400	0.001463	0.03716	4.75	4.602	5.06
	450	0.001230	0.03125	5.00	7.685	12.75
	500	0.001035	0.02628	5.25	6.920	19.67
	635	0.000870	0.02210	5.50	6.579	26.25
		0.000732	0.01858	5.75	6.898	33.15
		0.000615	0.01562	6.00	6.783	39.93
		0.000517	0.01314	6.25	6.140	46.07
		0.000435	0.01105	6.50	5.587	51.66
		0.000366	0.00929	6.75	5.145	56.80
Clay		0.000308	0.00781	7.00	4.797	61.60
		0.000259	0.00657	7.25	4.568	66.16
		0.000217	0.00552	7.50	4.367	70.53
		0.000183	0.00465	7.75	4.160	74.69
		0.000154	0.00391	8.00	3.948	78.64
		0.000129	0.00328	8.25	3.654	82.29
		0.000109	0.00276	8.50	3.304	85.60
		0.000091	0.00232	8.75	2.911	88.51
		0.000077	0.00195	9.00	2.495	91.00
		0.000065	0.00164	9.25	2.092	93.10
		0.000054	0.00138	9.50	1.719	94.81
		0.000046	0.00116	9.75	1.393	96.21
		0.000038	0.00098	10.00	1.118	97.32
		0.000032	0.00082	10.25	0.890	98.21
		0.000027	0.00069	10.50	0.693	98.91
	0.000023	0.00058	10.75	0.516	99.42	
	0.000019	0.00049	11.00	0.348	99.77	
	0.000016	0.00041	11.25	0.183	99.96	
	0.000015	0.00038	11.50	0.044	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0117	0.0117	0.0117	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0137	0.0093	0.0101	
Sorting	Poor			
	2.234	1.631	1.540	
Skewness	Finely skewed			
	0.878	0.440	0.249	
Kurtosis	Platykurtic			
	0.293	0.467	0.846	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	78.64	21.36	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0015	0.0373	4.7462
10		0.0013	0.0334	4.9055
16		0.0011	0.0289	5.1121
25		0.0009	0.0229	5.4491
40		0.0006	0.0156	6.0027
50		0.0005	0.0117	6.4213
70		0.0002	0.0057	7.4671
75		0.0002	0.0046	7.7680
84		0.0001	0.0030	8.3737
90		0.0001	0.0021	8.8942
95		0.0001	0.0014	9.5309

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



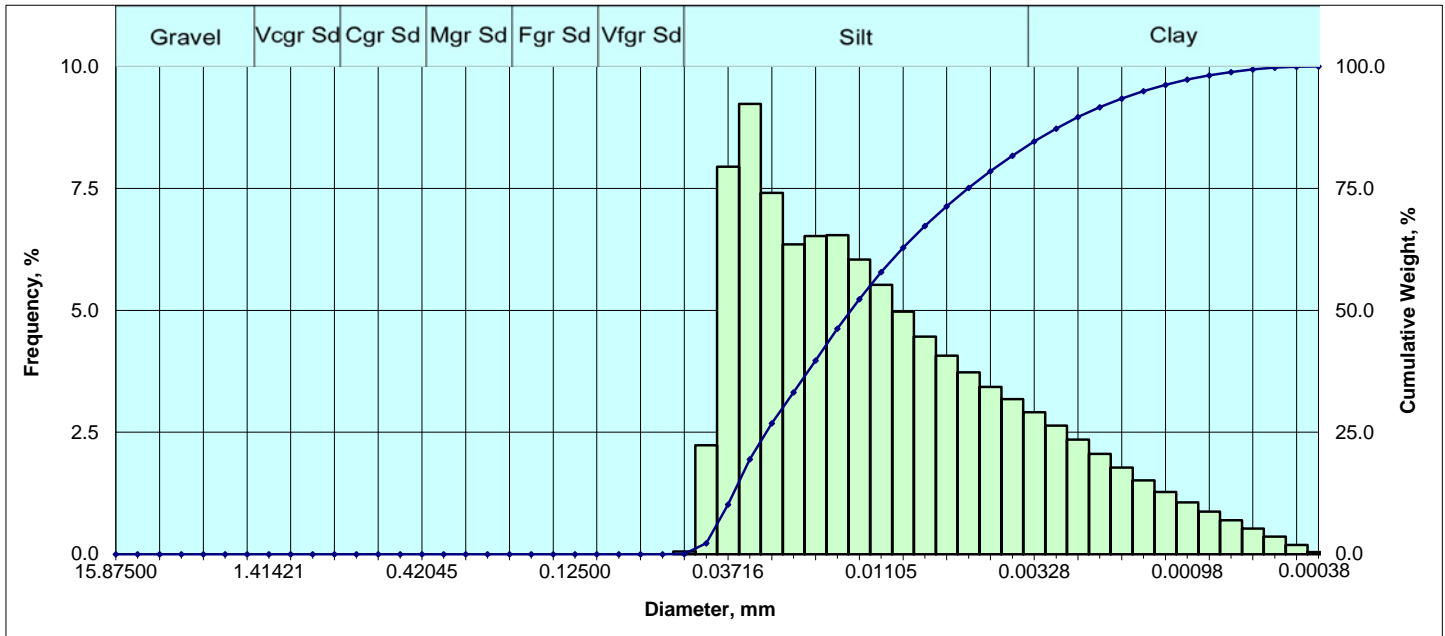
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.086	0.09
	200	0.002926	0.07433	3.75	1.234	1.32
Silt	230	0.002461	0.06250	4.00	3.534	4.85
	270	0.002069	0.05256	4.25	4.562	9.42
	325	0.001740	0.04419	4.50	4.719	14.14
	400	0.001463	0.03716	4.75	4.928	19.06
	450	0.001230	0.03125	5.00	5.327	24.39
	500	0.001035	0.02628	5.25	5.522	29.91
	635	0.000870	0.02210	5.50	5.409	35.32
		0.000732	0.01858	5.75	5.284	40.60
		0.000615	0.01562	6.00	5.298	45.90
		0.000517	0.01314	6.25	5.288	51.19
		0.000435	0.01105	6.50	5.070	56.26
		0.000366	0.00929	6.75	4.767	61.03
		0.000308	0.00781	7.00	4.463	65.49
		0.000259	0.00657	7.25	4.180	69.67
	0.000217	0.00552	7.50	3.925	73.60	
	0.000183	0.00465	7.75	3.683	77.28	
	0.000154	0.00391	8.00	3.445	80.72	
Clay		0.000129	0.00328	8.25	3.174	83.90
		0.000109	0.00276	8.50	2.867	86.77
		0.000091	0.00232	8.75	2.534	89.30
		0.000077	0.00195	9.00	2.192	91.49
		0.000065	0.00164	9.25	1.860	93.35
		0.000054	0.00138	9.50	1.559	94.91
		0.000046	0.00116	9.75	1.296	96.21
		0.000038	0.00098	10.00	1.070	97.28
		0.000032	0.00082	10.25	0.879	98.16
		0.000027	0.00069	10.50	0.702	98.86
		0.000023	0.00058	10.75	0.534	99.39
		0.000019	0.00049	11.00	0.367	99.76
		0.000016	0.00041	11.25	0.194	99.95
		0.000015	0.00038	11.50	0.047	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0137	0.0137	0.0137	
Mean	Silt sized			
(in)	0.0007	0.0005	0.0005	
(mm)	0.0179	0.0116	0.0123	
Sorting	Poor			
	2.432	1.834	1.752	
Skewness	Finely skewed			
	0.921	0.312	0.168	
Kurtosis	Platykurtic			
	0.259	0.502	0.880	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	4.85	75.87	19.28	95.15
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0024	0.0622	4.0074	
10	0.0020	0.0515	4.2787	
16	0.0016	0.0415	4.5896	
25	0.0012	0.0307	5.0256	
40	0.0007	0.0190	5.7191	
50	0.0005	0.0137	6.1898	
70	0.0003	0.0065	7.2693	
75	0.0002	0.0052	7.5902	
84	0.0001	0.0033	8.2581	
90	0.0001	0.0022	8.8252	
95	0.0001	0.0014	9.5159	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



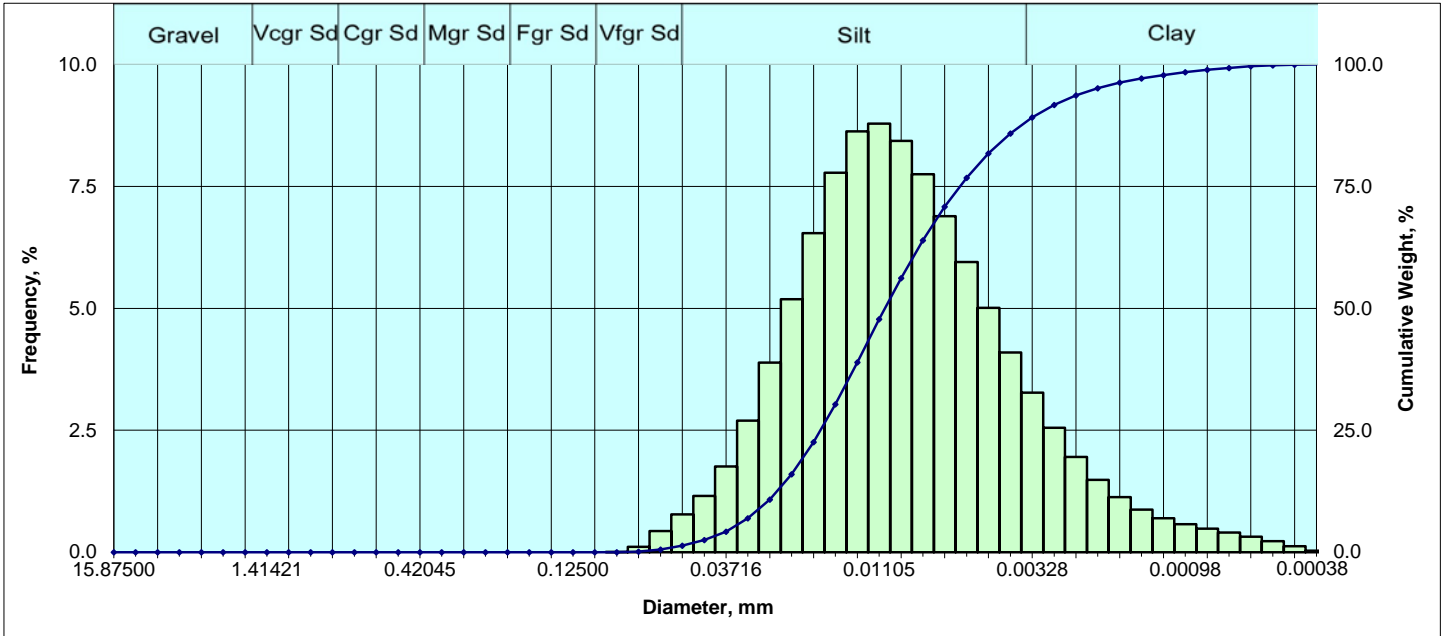
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.058	0.06
	325	0.001740	0.04419	4.50	2.232	2.29
	400	0.001463	0.03716	4.75	7.943	10.23
	450	0.001230	0.03125	5.00	9.232	19.47
	500	0.001035	0.02628	5.25	7.405	26.87
	635	0.000870	0.02210	5.50	6.351	33.22
		0.000732	0.01858	5.75	6.521	39.74
		0.000615	0.01562	6.00	6.544	46.29
		0.000517	0.01314	6.25	6.042	52.33
		0.000435	0.01105	6.50	5.525	57.85
	0.000366	0.00929	6.75	4.976	62.83	
	0.000308	0.00781	7.00	4.462	67.29	
	0.000259	0.00657	7.25	4.072	71.36	
	0.000217	0.00552	7.50	3.730	75.09	
	0.000183	0.00465	7.75	3.432	78.52	
	0.000154	0.00391	8.00	3.182	81.71	
Clay		0.000129	0.00328	8.25	2.911	84.62
		0.000109	0.00276	8.50	2.638	87.26
		0.000091	0.00232	8.75	2.352	89.61
		0.000077	0.00195	9.00	2.059	91.67
		0.000065	0.00164	9.25	1.779	93.45
		0.000054	0.00138	9.50	1.514	94.96
		0.000046	0.00116	9.75	1.277	96.24
		0.000038	0.00098	10.00	1.065	97.30
		0.000032	0.00082	10.25	0.875	98.18
		0.000027	0.00069	10.50	0.699	98.88
		0.000023	0.00058	10.75	0.528	99.40
		0.000019	0.00049	11.00	0.361	99.76
		0.000016	0.00041	11.25	0.190	99.95
		0.000015	0.00038	11.50	0.046	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0141	0.0141	0.0141	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0005	
(mm)	0.0165	0.0107	0.0117	
Sorting	Poor			
	2.227	1.646	1.570	
Skewness	Strongly fine skewed			
	0.877	0.544	0.303	
Kurtosis	Platykurtic			
	0.313	0.496	0.874	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	81.71	18.29	100.00
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0016	0.0418	4.5805	
10	0.0015	0.0374	4.7420	
16	0.0013	0.0335	4.9010	
25	0.0011	0.0275	5.1826	
40	0.0007	0.0185	5.7591	
50	0.0006	0.0141	6.1485	
70	0.0003	0.0070	7.1615	
75	0.0002	0.0056	7.4933	
84	0.0001	0.0034	8.1933	
90	0.0001	0.0023	8.7945	
95	0.0001	0.0014	9.5072	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



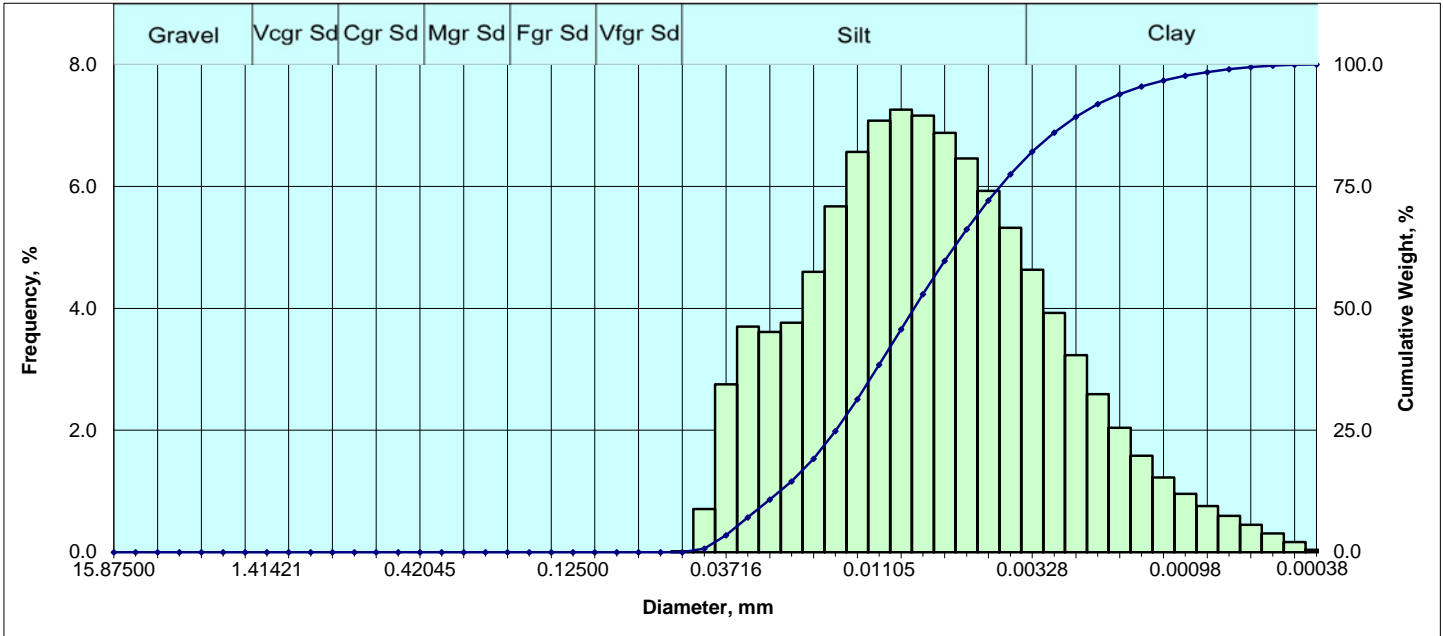
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.006	0.01
	200	0.002926	0.07433	3.75	0.114	0.12
Silt	230	0.002461	0.06250	4.00	0.434	0.55
	270	0.002069	0.05256	4.25	0.778	1.33
	325	0.001740	0.04419	4.50	1.155	2.49
	400	0.001463	0.03716	4.75	1.756	4.24
	450	0.001230	0.03125	5.00	2.699	6.94
	500	0.001035	0.02628	5.25	3.886	10.83
	635	0.000870	0.02210	5.50	5.189	16.02
		0.000732	0.01858	5.75	6.544	22.56
		0.000615	0.01562	6.00	7.777	30.34
		0.000517	0.01314	6.25	8.631	38.97
		0.000435	0.01105	6.50	8.788	47.76
		0.000366	0.00929	6.75	8.431	56.19
		0.000308	0.00781	7.00	7.750	63.94
	0.000259	0.00657	7.25	6.887	70.82	
	0.000217	0.00552	7.50	5.952	76.78	
	0.000183	0.00465	7.75	5.008	81.78	
	0.000154	0.00391	8.00	4.097	85.88	
Clay		0.000129	0.00328	8.25	3.269	89.15
		0.000109	0.00276	8.50	2.551	91.70
		0.000091	0.00232	8.75	1.956	93.66
		0.000077	0.00195	9.00	1.484	95.14
		0.000065	0.00164	9.25	1.128	96.27
		0.000054	0.00138	9.50	0.872	97.14
		0.000046	0.00116	9.75	0.695	97.84
		0.000038	0.00098	10.00	0.574	98.41
		0.000032	0.00082	10.25	0.485	98.90
		0.000027	0.00069	10.50	0.404	99.30
		0.000023	0.00058	10.75	0.320	99.62
		0.000019	0.00049	11.00	0.228	99.85
		0.000016	0.00041	11.25	0.123	99.97
		0.000015	0.00038	11.50	0.030	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0106	0.0106	0.0106	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0117	0.0097	0.0100	
Sorting	Poor			
	1.739	1.190	1.225	
Skewness	Finely skewed			
	0.959	0.279	0.133	
Kurtosis	Mesokurtic			
	0.244	0.747	1.067	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.55	85.33	14.12	99.45
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0014	0.0355	4.8158	
10	0.0011	0.0273	5.1930	
16	0.0009	0.0221	5.4991	
25	0.0007	0.0177	5.8238	
40	0.0005	0.0129	6.2772	
50	0.0004	0.0106	6.5624	
70	0.0003	0.0067	7.2177	
75	0.0002	0.0058	7.4207	
84	0.0002	0.0042	7.8798	
90	0.0001	0.0031	8.3286	
95	0.0001	0.0020	8.9743	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



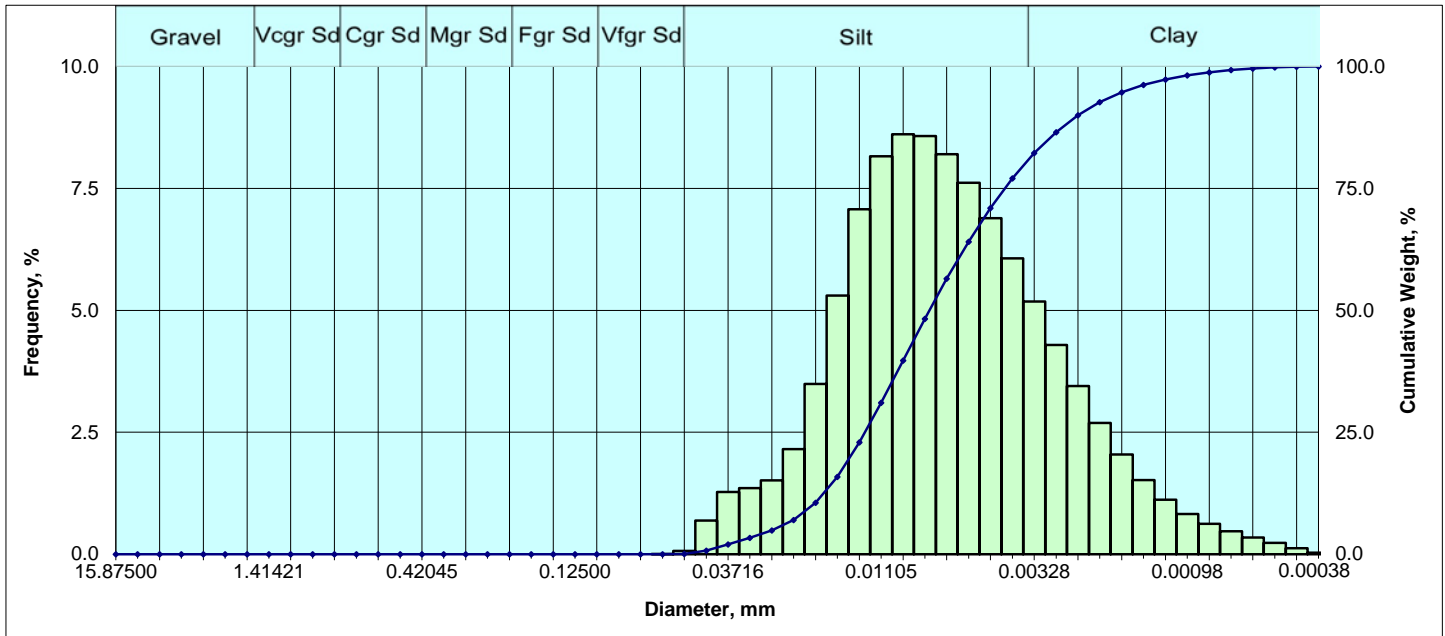
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.017	0.02
	325	0.001740	0.04419	4.50	0.709	0.73
	400	0.001463	0.03716	4.75	2.755	3.48
	450	0.001230	0.03125	5.00	3.701	7.18
	500	0.001035	0.02628	5.25	3.614	10.80
	635	0.000870	0.02210	5.50	3.766	14.56
		0.000732	0.01858	5.75	4.597	19.16
		0.000615	0.01562	6.00	5.673	24.83
		0.000517	0.01314	6.25	6.565	31.40
		0.000435	0.01105	6.50	7.079	38.48
Clay		0.000366	0.00929	6.75	7.258	45.73
		0.000308	0.00781	7.00	7.160	52.89
		0.000259	0.00657	7.25	6.878	59.77
		0.000217	0.00552	7.50	6.457	66.23
		0.000183	0.00465	7.75	5.926	72.16
		0.000154	0.00391	8.00	5.320	77.48
		0.000129	0.00328	8.25	4.635	82.11
		0.000109	0.00276	8.50	3.926	86.04
		0.000091	0.00232	8.75	3.234	89.27
		0.000077	0.00195	9.00	2.595	91.87
		0.000065	0.00164	9.25	2.040	93.91
		0.000054	0.00138	9.50	1.585	95.49
		0.000046	0.00116	9.75	1.227	96.72
		0.000038	0.00098	10.00	0.959	97.68
		0.000032	0.00082	10.25	0.760	98.44
	0.000027	0.00069	10.50	0.597	99.03	
	0.000023	0.00058	10.75	0.451	99.48	
	0.000019	0.00049	11.00	0.311	99.79	
	0.000016	0.00041	11.25	0.166	99.96	
	0.000015	0.00038	11.50	0.040	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0084	0.0084	0.0084	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0099	0.0080	0.0081	
Sorting	Poor			
	1.913	1.396	1.390	
Skewness	Near symmetrical			
	0.967	0.171	0.079	
Kurtosis	Mesokurtic			
	0.225	0.637	1.000	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	77.48	22.52	100.00
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0014	0.0347	4.8474	
10	0.0011	0.0274	5.1910	
16	0.0008	0.0210	5.5736	
25	0.0006	0.0156	6.0058	
40	0.0004	0.0107	6.5490	
50	0.0003	0.0084	6.8937	
70	0.0002	0.0050	7.6539	
75	0.0002	0.0043	7.8782	
84	0.0001	0.0030	8.3649	
90	0.0001	0.0022	8.8160	
95	0.0001	0.0015	9.4179	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



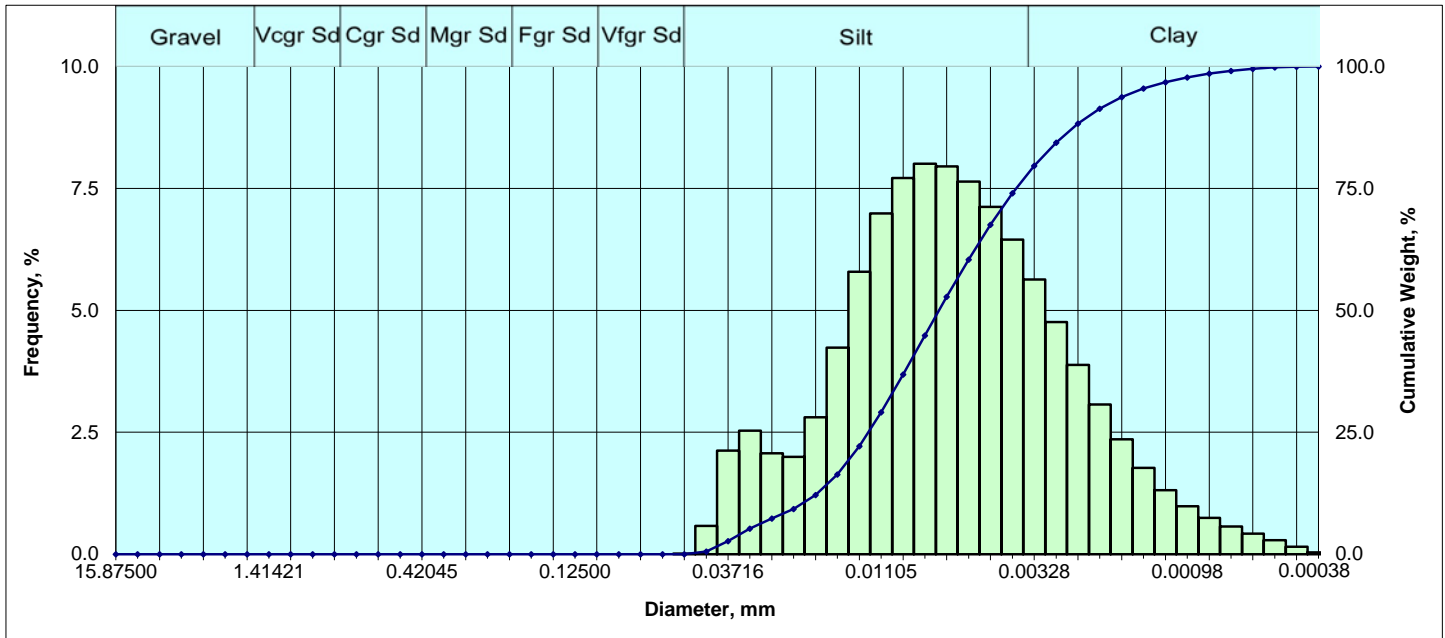
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.001	0.00
	270	0.002069	0.05256	4.25	0.069	0.07
	325	0.001740	0.04419	4.50	0.692	0.76
	400	0.001463	0.03716	4.75	1.275	2.04
	450	0.001230	0.03125	5.00	1.359	3.40
	500	0.001035	0.02628	5.25	1.513	4.91
	635	0.000870	0.02210	5.50	2.152	7.06
		0.000732	0.01858	5.75	3.494	10.55
		0.000615	0.01562	6.00	5.306	15.86
		0.000517	0.01314	6.25	7.075	22.94
		0.000435	0.01105	6.50	8.160	31.10
Clay		0.000366	0.00929	6.75	8.607	39.70
		0.000308	0.00781	7.00	8.573	48.28
		0.000259	0.00657	7.25	8.203	56.48
		0.000217	0.00552	7.50	7.618	64.10
		0.000183	0.00465	7.75	6.890	70.99
		0.000154	0.00391	8.00	6.067	77.05
		0.000129	0.00328	8.25	5.179	82.23
		0.000109	0.00276	8.50	4.292	86.52
		0.000091	0.00232	8.75	3.448	89.97
		0.000077	0.00195	9.00	2.690	92.66
		0.000065	0.00164	9.25	2.043	94.71
		0.000054	0.00138	9.50	1.521	96.23
		0.000046	0.00116	9.75	1.118	97.35
		0.000038	0.00098	10.00	0.827	98.17
		0.000032	0.00082	10.25	0.623	98.80
	0.000027	0.00069	10.50	0.470	99.27	
	0.000023	0.00058	10.75	0.346	99.61	
	0.000019	0.00049	11.00	0.234	99.85	
	0.000016	0.00041	11.25	0.124	99.97	
	0.000015	0.00038	11.50	0.030	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0076	0.0076	0.0076	
Mean	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0084	0.0069	0.0071	
Sorting	Poor			
	1.742	1.172	1.197	
Skewness	Finely skewed			
	0.959	0.195	0.111	
Kurtosis	Mesokurtic			
	0.251	0.722	1.033	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	77.05	22.95	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0010	0.0261	5.2598
10		0.0008	0.0191	5.7073
16		0.0006	0.0156	6.0045
25		0.0005	0.0126	6.3093
40		0.0004	0.0092	6.7580
50		0.0003	0.0076	7.0491
70		0.0002	0.0048	7.7114
75		0.0002	0.0042	7.9104
84		0.0001	0.0031	8.3477
90		0.0001	0.0023	8.7523
95		0.0001	0.0016	9.2950

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



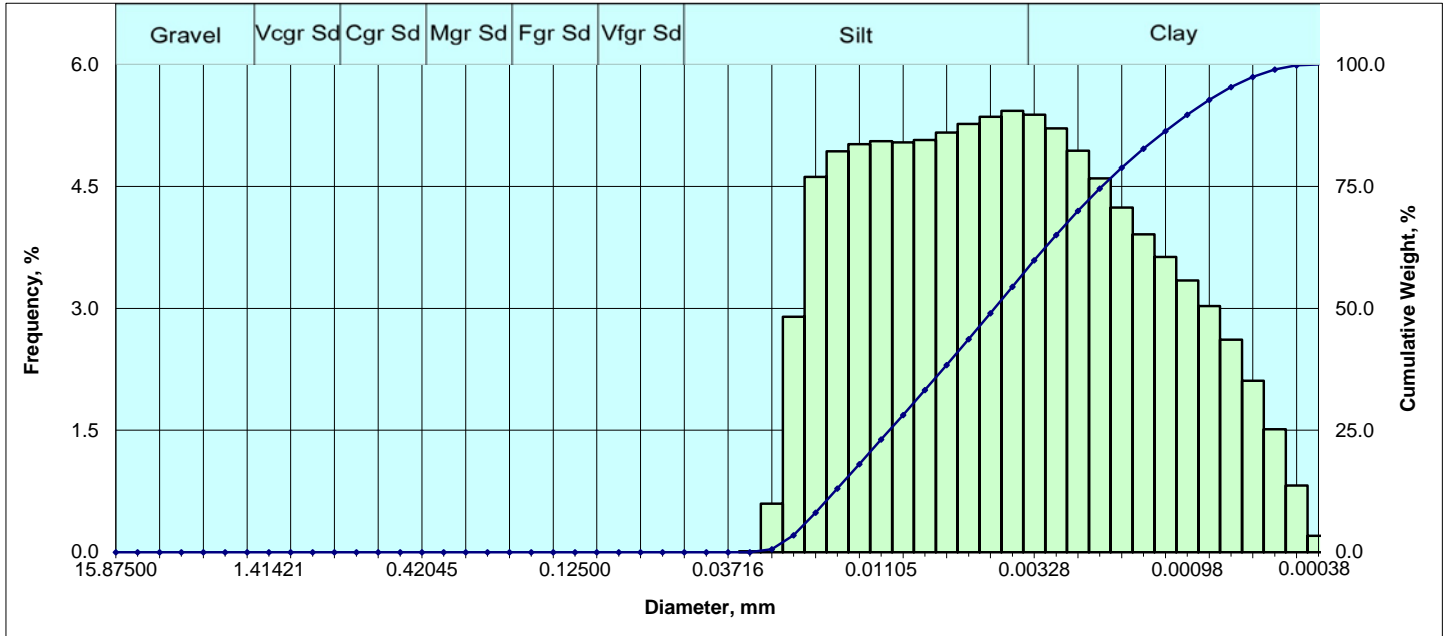
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.015	0.01
	325	0.001740	0.04419	4.50	0.580	0.59
	400	0.001463	0.03716	4.75	2.123	2.72
	450	0.001230	0.03125	5.00	2.534	5.25
	500	0.001035	0.02628	5.25	2.073	7.32
	635	0.000870	0.02210	5.50	1.995	9.32
		0.000732	0.01858	5.75	2.808	12.13
		0.000615	0.01562	6.00	4.233	16.36
		0.000517	0.01314	6.25	5.789	22.15
		0.000435	0.01105	6.50	6.987	29.14
		0.000366	0.00929	6.75	7.716	36.85
		0.000308	0.00781	7.00	8.003	44.86
	0.000259	0.00657	7.25	7.951	52.81	
	0.000217	0.00552	7.50	7.638	60.44	
	0.000183	0.00465	7.75	7.121	67.57	
	0.000154	0.00391	8.00	6.450	74.02	
Clay		0.000129	0.00328	8.25	5.635	79.65
		0.000109	0.00276	8.50	4.759	84.41
		0.000091	0.00232	8.75	3.884	88.29
		0.000077	0.00195	9.00	3.068	91.36
		0.000065	0.00164	9.25	2.354	93.72
		0.000054	0.00138	9.50	1.769	95.48
		0.000046	0.00116	9.75	1.313	96.80
		0.000038	0.00098	10.00	0.982	97.78
		0.000032	0.00082	10.25	0.748	98.53
		0.000027	0.00069	10.50	0.570	99.10
		0.000023	0.00058	10.75	0.423	99.52
		0.000019	0.00049	11.00	0.288	99.81
		0.000016	0.00041	11.25	0.153	99.96
		0.000015	0.00038	11.50	0.037	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0070	0.0070	0.0070	
Mean	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0080	0.0067	0.0068	
Sorting	Poor			
	1.799	1.250	1.300	
Skewness	Near symmetrical			
	0.975	0.035	0.038	
Kurtosis	Mesokurtic			
	0.222	0.782	1.078	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	74.02	25.98	100.00
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0013	0.0318	4.9732	
10	0.0008	0.0212	5.5568	
16	0.0006	0.0159	5.9769	
25	0.0005	0.0123	6.3468	
40	0.0003	0.0087	6.8432	
50	0.0003	0.0070	7.1567	
70	0.0002	0.0044	7.8394	
75	0.0001	0.0038	8.0407	
84	0.0001	0.0028	8.4767	
90	0.0001	0.0021	8.8837	
95	0.0001	0.0015	9.4271	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



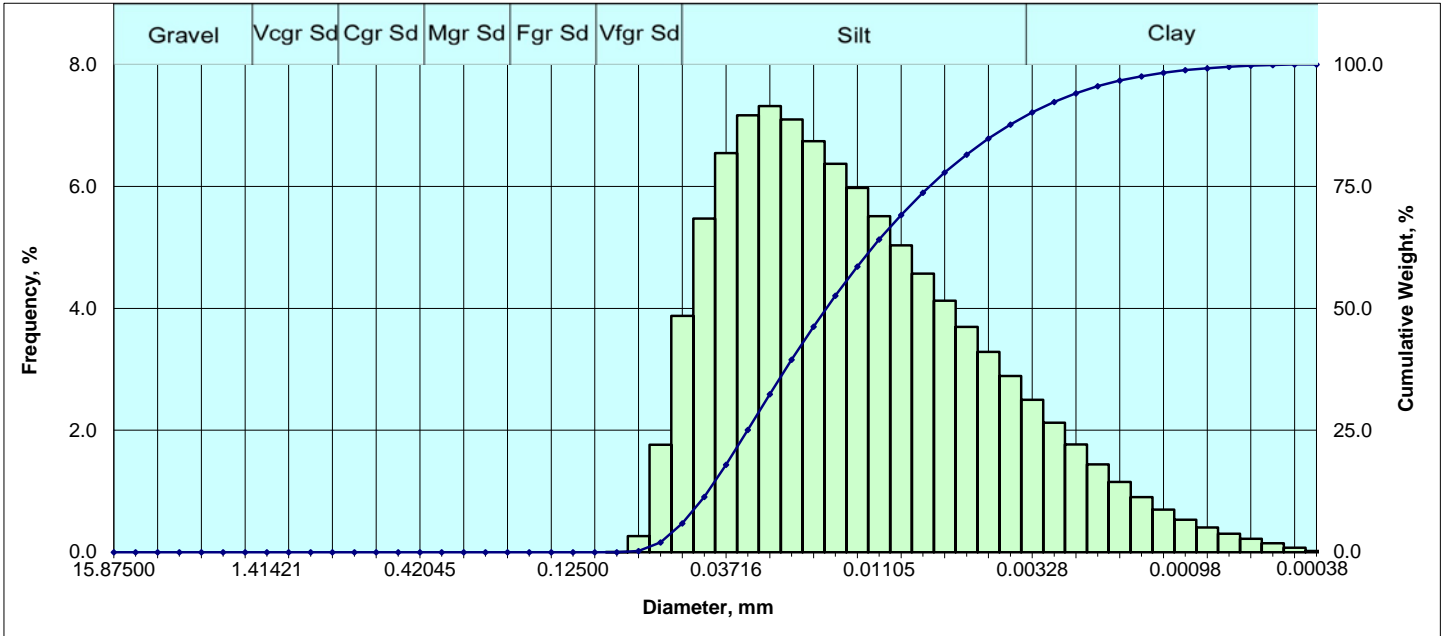
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.000	0.00
	400	0.001463	0.03716	4.75	0.000	0.00
	450	0.001230	0.03125	5.00	0.012	0.01
	500	0.001035	0.02628	5.25	0.056	0.61
	635	0.000870	0.02210	5.50	2.896	3.50
		0.000732	0.01858	5.75	4.618	8.12
		0.000615	0.01562	6.00	4.930	13.05
		0.000517	0.01314	6.25	5.020	18.07
		0.000435	0.01105	6.50	5.055	23.13
		0.000366	0.00929	6.75	5.042	28.17
		0.000308	0.00781	7.00	5.070	33.24
	0.000259	0.00657	7.25	5.162	38.40	
	0.000217	0.00552	7.50	5.267	43.67	
	0.000183	0.00465	7.75	5.355	49.02	
	0.000154	0.00391	8.00	5.430	54.45	
Clay		0.000129	0.00328	8.25	5.383	59.84
		0.000109	0.00276	8.50	5.215	65.05
		0.000091	0.00232	8.75	4.940	69.99
		0.000077	0.00195	9.00	4.599	74.59
		0.000065	0.00164	9.25	4.239	78.83
		0.000054	0.00138	9.50	3.911	82.74
		0.000046	0.00116	9.75	3.631	86.37
		0.000038	0.00098	10.00	3.343	89.71
		0.000032	0.00082	10.25	3.027	92.74
		0.000027	0.00069	10.50	2.616	95.36
		0.000023	0.00058	10.75	2.111	97.47
		0.000019	0.00049	11.00	1.513	98.98
		0.000016	0.00041	11.25	0.819	99.80
		0.000015	0.00038	11.50	0.201	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0045	0.0045	0.0045	
Mean	Silt sized			
(in)	0.0002	0.0002	0.0002	
(mm)	0.0062	0.0043	0.0044	
Sorting	Poor			
	2.325	1.720	1.601	
Skewness	Near symmetrical			
	0.991	0.133	0.067	
Kurtosis	Platykurtic			
	0.257	0.420	0.823	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	54.45	45.55	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0008	0.0210	5.5764	
10	0.0007	0.0175	5.8402	
16	0.0006	0.0142	6.1415	
25	0.0004	0.0104	6.5879	
40	0.0002	0.0063	7.3214	
50	0.0002	0.0045	7.7919	
70	0.0001	0.0023	8.7505	
75	0.0001	0.0019	9.0224	
84	0.0001	0.0013	9.5820	
90	0.0000	0.0010	10.0219	
95	0.0000	0.0007	10.4633	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



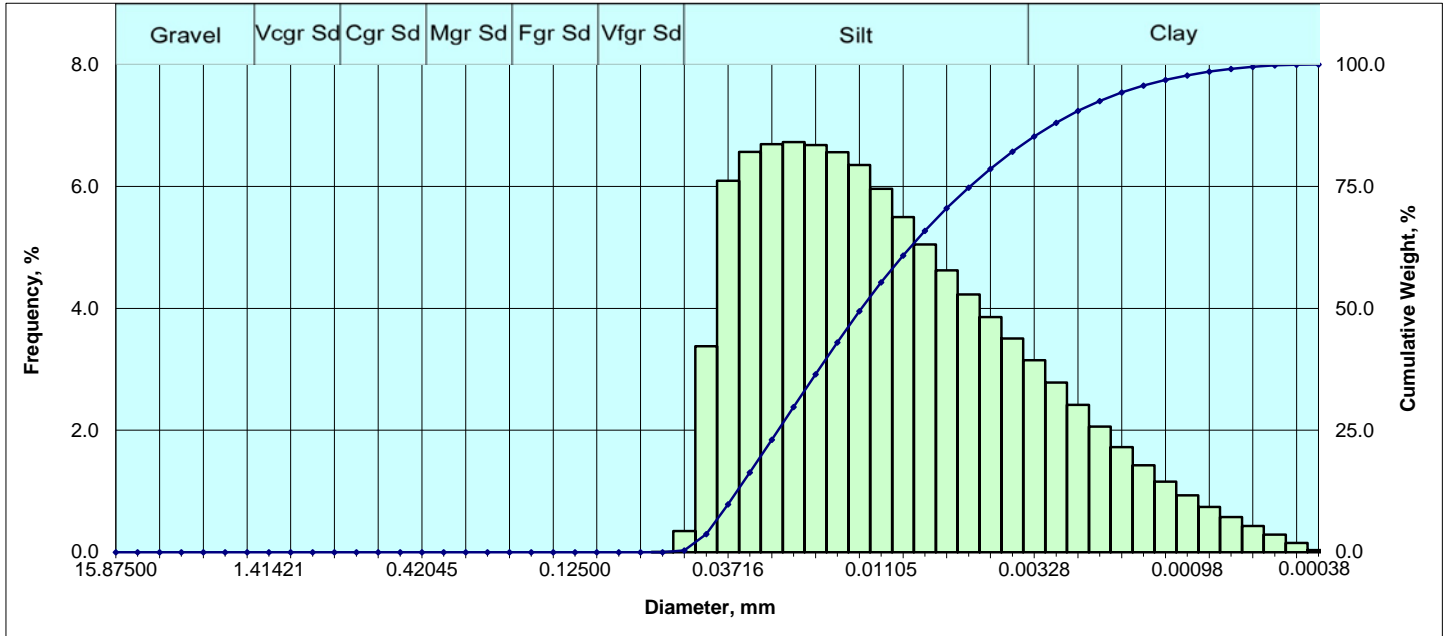
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.004	0.00
	200	0.002926	0.07433	3.75	0.266	0.27
Silt	230	0.002461	0.06250	4.00	1.764	2.03
	270	0.002069	0.05256	4.25	3.877	5.91
	325	0.001740	0.04419	4.50	5.473	11.39
	400	0.001463	0.03716	4.75	6.544	17.93
	450	0.001230	0.03125	5.00	7.165	25.09
	500	0.001035	0.02628	5.25	7.316	32.41
	635	0.000870	0.02210	5.50	7.100	39.51
		0.000732	0.01858	5.75	6.742	46.25
		0.000615	0.01562	6.00	6.369	52.62
		0.000517	0.01314	6.25	5.975	58.60
		0.000435	0.01105	6.50	5.513	64.11
		0.000366	0.00929	6.75	5.035	69.14
		0.000308	0.00781	7.00	4.570	73.72
	0.000259	0.00657	7.25	4.124	77.84	
	0.000217	0.00552	7.50	3.697	81.54	
	0.000183	0.00465	7.75	3.285	84.82	
	0.000154	0.00391	8.00	2.889	87.71	
Clay		0.000129	0.00328	8.25	2.499	90.21
		0.000109	0.00276	8.50	2.123	92.33
		0.000091	0.00232	8.75	1.768	94.10
		0.000077	0.00195	9.00	1.442	95.54
		0.000065	0.00164	9.25	1.152	96.69
		0.000054	0.00138	9.50	0.904	97.60
		0.000046	0.00116	9.75	0.697	98.30
		0.000038	0.00098	10.00	0.533	98.83
		0.000032	0.00082	10.25	0.407	99.24
		0.000027	0.00069	10.50	0.305	99.54
		0.000023	0.00058	10.75	0.220	99.76
		0.000019	0.00049	11.00	0.145	99.91
		0.000016	0.00041	11.25	0.076	99.98
		0.000015	0.00038	11.50	0.018	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0168	0.0168	0.0168	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0006	
(mm)	0.0194	0.0138	0.0148	
Sorting	Poor			
	2.054	1.506	1.467	
Skewness	Finely skewed			
	0.906	0.433	0.233	
Kurtosis	Mesokurtic			
	0.278	0.565	0.930	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	2.03	85.68	12.29	97.97
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0022	0.0549	4.1872	
10	0.0018	0.0463	4.4325	
16	0.0015	0.0392	4.6717	
25	0.0012	0.0313	4.9964	
40	0.0009	0.0218	5.5168	
50	0.0007	0.0168	5.8918	
70	0.0004	0.0090	6.7936	
75	0.0003	0.0074	7.0733	
84	0.0002	0.0049	7.6833	
90	0.0001	0.0033	8.2273	
95	0.0001	0.0021	8.9008	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



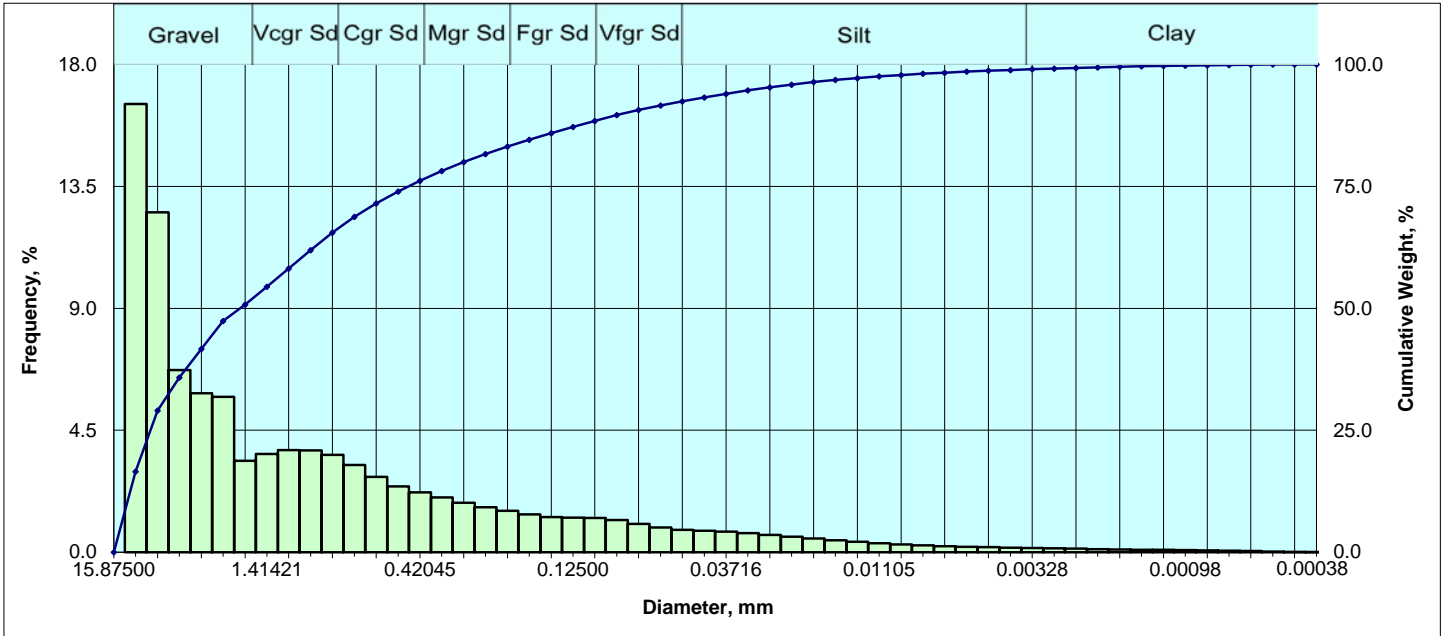
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.005	0.01
	270	0.002069	0.05256	4.25	0.349	0.35
	325	0.001740	0.04419	4.50	3.381	3.73
	400	0.001463	0.03716	4.75	6.092	9.83
	450	0.001230	0.03125	5.00	6.566	16.39
	500	0.001035	0.02628	5.25	6.695	23.09
	635	0.000870	0.02210	5.50	6.726	29.81
		0.000732	0.01858	5.75	6.679	36.49
		0.000615	0.01562	6.00	6.559	43.05
		0.000517	0.01314	6.25	6.350	49.40
		0.000435	0.01105	6.50	5.960	55.36
		0.000366	0.00929	6.75	5.498	60.86
		0.000308	0.00781	7.00	5.047	65.91
	0.000259	0.00657	7.25	4.622	70.53	
	0.000217	0.00552	7.50	4.228	74.76	
	0.000183	0.00465	7.75	3.858	78.61	
	0.000154	0.00391	8.00	3.506	82.12	
Clay		0.000129	0.00328	8.25	3.148	85.27
		0.000109	0.00276	8.50	2.783	88.05
		0.000091	0.00232	8.75	2.417	90.47
		0.000077	0.00195	9.00	2.062	92.53
		0.000065	0.00164	9.25	1.727	94.26
		0.000054	0.00138	9.50	1.424	95.68
		0.000046	0.00116	9.75	1.159	96.84
		0.000038	0.00098	10.00	0.933	97.77
		0.000032	0.00082	10.25	0.744	98.52
		0.000027	0.00069	10.50	0.578	99.10
		0.000023	0.00058	10.75	0.429	99.52
		0.000019	0.00049	11.00	0.289	99.81
		0.000016	0.00041	11.25	0.151	99.96
		0.000015	0.00038	11.50	0.037	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0129	0.0129	0.0129	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0153	0.0106	0.0113	
Sorting	Poor			
	2.142	1.580	1.521	
Skewness	Finely skewed			
	0.906	0.436	0.235	
Kurtosis	Mesokurtic			
	0.284	0.527	0.900	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.01	82.12	17.88	99.99
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0017	0.0427	4.5485	
10	0.0015	0.0370	4.7561	
16	0.0012	0.0316	4.9837	
25	0.0010	0.0251	5.3168	
40	0.0007	0.0170	5.8783	
50	0.0005	0.0129	6.2732	
70	0.0003	0.0067	7.2191	
75	0.0002	0.0055	7.5145	
84	0.0001	0.0035	8.1440	
90	0.0001	0.0024	8.6980	
95	0.0001	0.0015	9.3750	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



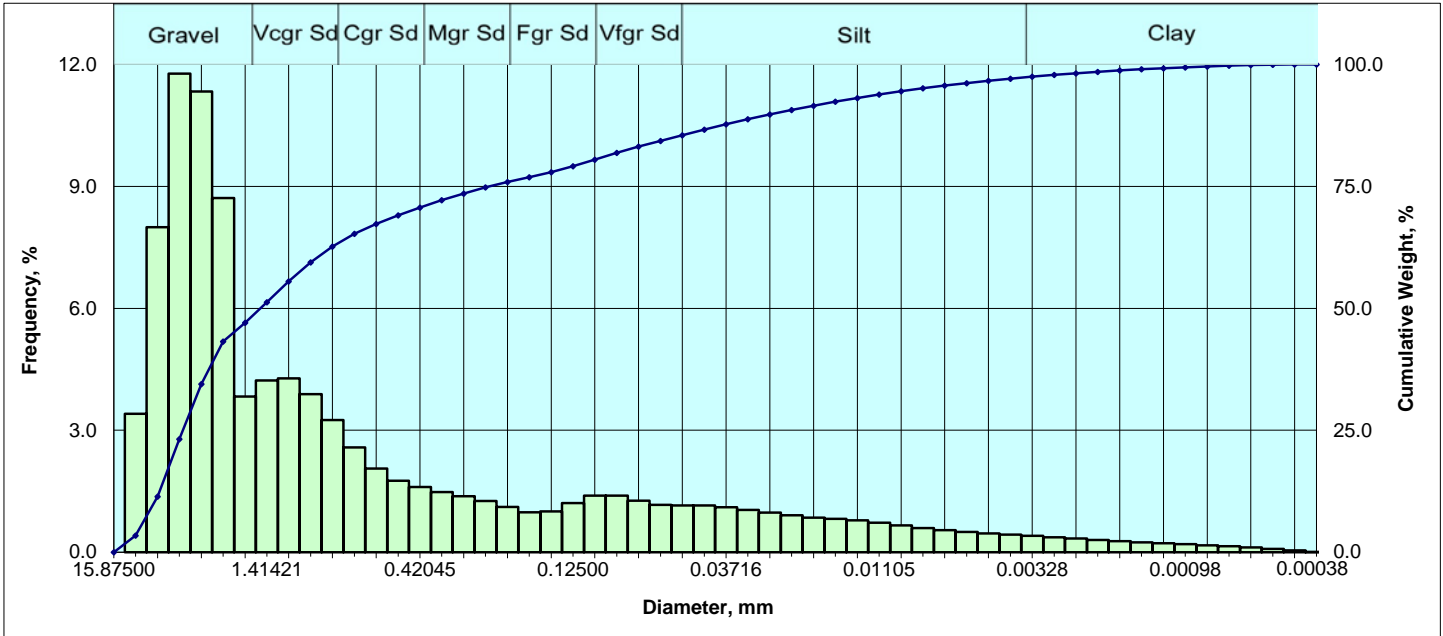
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	16.542	16.54
	4	0.187008	4.75000	-2.25	12.540	29.08
	6	0.131890	3.35000	-1.75	6.724	35.81
	8	0.092913	2.36000	-1.25	5.870	41.68
V Crse Sand	10	0.078740	2.00000	-1.00	5.736	47.41
	12	0.066212	1.68179	-0.75	3.369	50.78
	14	0.055678	1.41421	-0.50	3.626	54.41
	16	0.046819	1.18921	-0.25	3.768	58.18
Coarse Sand	18	0.039370	1.00000	0.00	3.761	61.94
	20	0.033106	0.84090	0.25	3.591	65.53
	25	0.027839	0.70711	0.50	3.224	68.75
Medium Sand	30	0.023410	0.59460	0.75	2.777	71.53
	35	0.019685	0.50000	1.00	2.427	73.96
	40	0.016553	0.42045	1.25	2.210	76.17
	45	0.013919	0.35355	1.50	2.021	78.19
Fine Sand	50	0.011705	0.29730	1.75	1.824	80.01
	60	0.009843	0.25000	2.00	1.659	81.67
	70	0.008277	0.21022	2.25	1.530	83.20
	80	0.006960	0.17678	2.50	1.400	84.60
V. Fine Sand	100	0.005852	0.14865	2.75	1.302	85.90
	120	0.004921	0.12500	3.00	1.278	87.18
	140	0.004138	0.10511	3.25	1.267	88.45
	170	0.003480	0.08839	3.50	1.185	89.63
Silt	200	0.002926	0.07433	3.75	1.042	90.67
	230	0.002461	0.06250	4.00	0.910	91.58
	270	0.002069	0.05256	4.25	0.832	92.42
	325	0.001740	0.04419	4.50	0.797	93.21
	400	0.001463	0.03716	4.75	0.759	93.97
	450	0.001230	0.03125	5.00	0.705	94.68
	500	0.001035	0.02628	5.25	0.638	95.31
	635	0.000870	0.02210	5.50	0.569	95.88
		0.000732	0.01858	5.75	0.503	96.39
		0.000615	0.01562	6.00	0.443	96.83
		0.000517	0.01314	6.25	0.386	97.22
		0.000435	0.01105	6.50	0.334	97.55
		0.000366	0.00929	6.75	0.290	97.84
	0.000308	0.00781	7.00	0.254	98.09	
	0.000259	0.00657	7.25	0.226	98.32	
	0.000217	0.00552	7.50	0.203	98.52	
	0.000183	0.00465	7.75	0.184	98.71	
	0.000154	0.00391	8.00	0.169	98.88	
Clay		0.000129	0.00328	8.25	0.155	99.03
		0.000109	0.00276	8.50	0.142	99.17
		0.000091	0.00232	8.75	0.130	99.30
		0.000077	0.00195	9.00	0.118	99.42
		0.000065	0.00164	9.25	0.106	99.53
		0.000054	0.00138	9.50	0.096	99.62
		0.000046	0.00116	9.75	0.086	99.71
		0.000038	0.00098	10.00	0.076	99.79
		0.000032	0.00082	10.25	0.066	99.85
		0.000027	0.00069	10.50	0.055	99.91
		0.000023	0.00058	10.75	0.043	99.95
		0.000019	0.00049	11.00	0.030	99.98
		0.000016	0.00041	11.25	0.016	100.00
		0.000015	0.00038	11.50	0.004	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0691	0.0691	0.0691	
(mm)	1.7556	1.7556	1.7556	
Mean	Very coarse sand sized			
(in)	0.1330	0.0536	0.0584	
(mm)	3.3793	1.3622	1.4824	
Sorting	Very poor			
	3.690	2.833	2.769	
Skewness	Finely skewed			
	0.972	0.519	0.230	
Kurtosis	Mesokurtic			
	0.244	0.575	0.971	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
47.41	44.17	7.29	1.12	8.42
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.5491	13.9481	-3.8020	
10	0.4733	12.0212	-3.5875	
16	0.3822	9.7089	-3.2793	
25	0.2479	6.2963	-2.6545	
40	0.1040	2.6426	-1.4020	
50	0.0691	1.7556	-0.8120	
70	0.0258	0.6565	0.6070	
75	0.0182	0.4624	1.1127	
84	0.0075	0.1911	2.3875	
90	0.0033	0.0834	3.5833	
95	0.0011	0.0287	5.1213	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



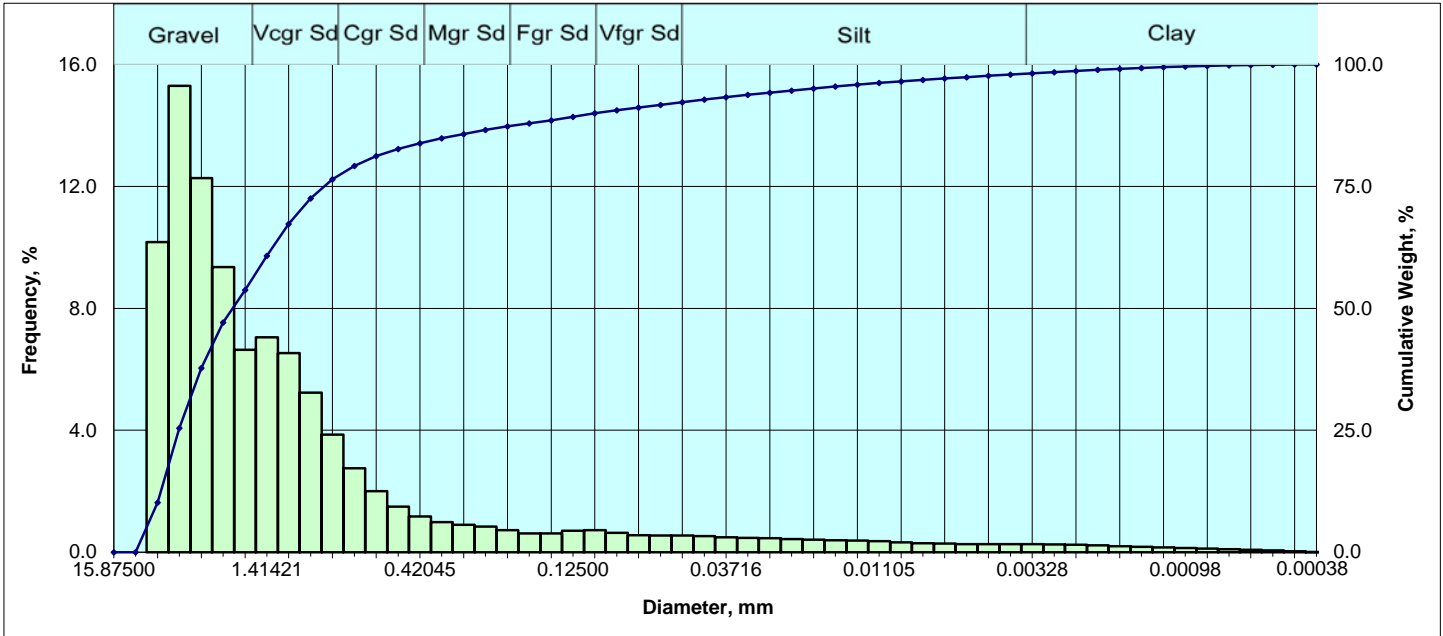
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	3.403	3.40
	4	0.187008	4.75000	-2.25	7.999	11.40
	6	0.131890	3.35000	-1.75	11.771	23.17
	8	0.092913	2.36000	-1.25	11.338	34.51
V Crse Sand	10	0.078740	2.00000	-1.00	8.715	43.23
	12	0.066212	1.68179	-0.75	3.828	47.05
	14	0.055678	1.41421	-0.50	4.224	51.28
	16	0.046819	1.18921	-0.25	4.279	55.56
Coarse Sand	18	0.039370	1.00000	0.00	3.887	59.44
	20	0.033106	0.84090	0.25	3.252	62.70
	25	0.027839	0.70711	0.50	2.579	65.27
	30	0.023410	0.59460	0.75	2.059	67.33
Medium Sand	35	0.019685	0.50000	1.00	1.758	69.09
	40	0.016553	0.42045	1.25	1.602	70.69
	45	0.013919	0.35355	1.50	1.483	72.18
	50	0.011705	0.29730	1.75	1.375	73.55
Fine Sand	60	0.009843	0.25000	2.00	1.260	74.81
	70	0.008277	0.21022	2.25	1.114	75.92
	80	0.006960	0.17678	2.50	0.979	76.90
	100	0.005852	0.14865	2.75	1.005	77.91
V. Fine Sand	120	0.004921	0.12500	3.00	1.211	79.12
	140	0.004138	0.10511	3.25	1.396	80.51
	170	0.003480	0.08839	3.50	1.393	81.91
	200	0.002926	0.07433	3.75	1.265	83.17
Silt	230	0.002461	0.06250	4.00	1.169	84.34
	270	0.002069	0.05256	4.25	1.150	85.49
	325	0.001740	0.04419	4.50	1.151	86.64
	400	0.001463	0.03716	4.75	1.109	87.75
	450	0.001230	0.03125	5.00	1.045	88.80
	500	0.001035	0.02628	5.25	0.977	89.77
	635	0.000870	0.02210	5.50	0.908	90.68
		0.000732	0.01858	5.75	0.853	91.53
		0.000615	0.01562	6.00	0.819	92.35
		0.000517	0.01314	6.25	0.787	93.14
		0.000435	0.01105	6.50	0.729	93.87
Clay		0.000366	0.00929	6.75	0.660	94.53
		0.000308	0.00781	7.00	0.598	95.13
		0.000259	0.00657	7.25	0.546	95.67
		0.000217	0.00552	7.50	0.502	96.17
		0.000183	0.00465	7.75	0.466	96.64
		0.000154	0.00391	8.00	0.435	97.07
		0.000129	0.00328	8.25	0.404	97.48
		0.000109	0.00276	8.50	0.371	97.85
		0.000091	0.00232	8.75	0.338	98.19
		0.000077	0.00195	9.00	0.304	98.49
		0.000065	0.00164	9.25	0.273	98.76
		0.000054	0.00138	9.50	0.244	99.01
		0.000046	0.00116	9.75	0.220	99.23
		0.000038	0.00098	10.00	0.197	99.43
		0.000032	0.00082	10.25	0.174	99.60
	0.000027	0.00069	10.50	0.147	99.75	
	0.000023	0.00058	10.75	0.116	99.86	
	0.000019	0.00049	11.00	0.082	99.94	
	0.000016	0.00041	11.25	0.044	99.99	
	0.000015	0.00038	11.50	0.011	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0589	0.0589	0.0589	
(mm)	1.4952	1.4952	1.4952	
Mean	Coarse sand sized			
(in)	0.0676	0.0207	0.0294	
(mm)	1.7169	0.5265	0.7456	
Sorting	Very poor			
	3.622	2.997	3.020	
Skewness	Strongly fine skewed			
	0.589	0.836	0.501	
Kurtosis	Mesokurtic			
	0.265	0.675	1.108	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
43.23	41.12	12.73	2.93	15.66
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3367	8.5519	-3.0963	
10	0.2198	5.5829	-2.4810	
16	0.1655	4.2032	-2.0715	
25	0.1256	3.1905	-1.6738	
40	0.0840	2.1333	-1.0931	
50	0.0589	1.4952	-0.5803	
70	0.0179	0.4548	1.1366	
75	0.0096	0.2432	2.0396	
84	0.0026	0.0660	3.9224	
90	0.0010	0.0252	5.3086	
95	0.0003	0.0081	6.9436	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



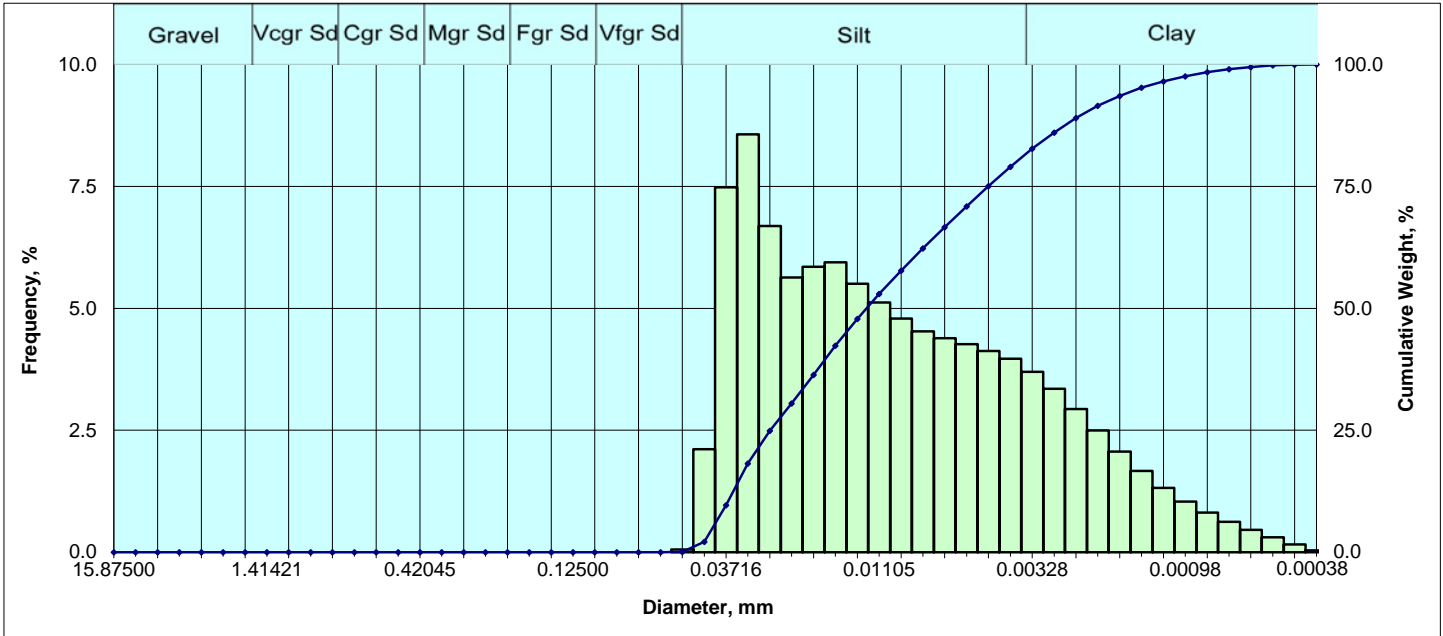
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	10.178	10.18
	6	0.131890	3.35000	-1.75	15.301	25.48
	8	0.092913	2.36000	-1.25	12.272	37.75
V Crse Sand	10	0.078740	2.00000	-1.00	9.354	47.10
	12	0.066212	1.68179	-0.75	6.642	53.75
	14	0.055678	1.41421	-0.50	7.055	60.80
	16	0.046819	1.18921	-0.25	6.537	67.34
Coarse Sand	18	0.039370	1.00000	0.00	5.239	72.58
	20	0.033106	0.84090	0.25	3.855	76.43
	25	0.027839	0.70711	0.50	2.759	79.19
	30	0.023410	0.59460	0.75	2.004	81.19
Medium Sand	35	0.019685	0.50000	1.00	1.495	82.69
	40	0.016553	0.42045	1.25	1.175	83.86
	45	0.013919	0.35355	1.50	0.986	84.85
	50	0.011705	0.29730	1.75	0.902	85.75
Fine Sand	60	0.009843	0.25000	2.00	0.839	86.59
	70	0.008277	0.21022	2.25	0.728	87.32
	80	0.006960	0.17678	2.50	0.616	87.94
	100	0.005852	0.14865	2.75	0.620	88.56
V. Fine Sand	120	0.004921	0.12500	3.00	0.705	89.26
	140	0.004138	0.10511	3.25	0.721	89.98
	170	0.003480	0.08839	3.50	0.640	90.62
	200	0.002926	0.07433	3.75	0.562	91.18
Silt	230	0.002461	0.06250	4.00	0.544	91.73
	270	0.002069	0.05256	4.25	0.550	92.28
	325	0.001740	0.04419	4.50	0.530	92.81
	400	0.001463	0.03716	4.75	0.492	93.30
	450	0.001230	0.03125	5.00	0.470	93.77
	500	0.001035	0.02628	5.25	0.458	94.23
	635	0.000870	0.02210	5.50	0.437	94.66
		0.000732	0.01858	5.75	0.412	95.08
		0.000615	0.01562	6.00	0.397	95.47
		0.000517	0.01314	6.25	0.386	95.86
		0.000435	0.01105	6.50	0.359	96.22
		0.000366	0.00929	6.75	0.326	96.55
		0.000308	0.00781	7.00	0.299	96.84
	0.000259	0.00657	7.25	0.281	97.13	
	0.000217	0.00552	7.50	0.271	97.40	
	0.000183	0.00465	7.75	0.266	97.66	
	0.000154	0.00391	8.00	0.266	97.93	
Clay		0.000129	0.00328	8.25	0.263	98.19
		0.000109	0.00276	8.50	0.255	98.45
		0.000091	0.00232	8.75	0.242	98.69
		0.000077	0.00195	9.00	0.223	98.91
		0.000065	0.00164	9.25	0.202	99.11
		0.000054	0.00138	9.50	0.181	99.29
		0.000046	0.00116	9.75	0.161	99.46
		0.000038	0.00098	10.00	0.142	99.60
		0.000032	0.00082	10.25	0.123	99.72
		0.000027	0.00069	10.50	0.103	99.82
		0.000023	0.00058	10.75	0.081	99.91
		0.000019	0.00049	11.00	0.057	99.96
		0.000016	0.00041	11.25	0.030	99.99
		0.000015	0.00038	11.50	0.007	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0733	0.0733	0.0733	
(mm)	1.8613	1.8613	1.8613	
Mean	Very coarse sand sized			
(in)	0.0845	0.0518	0.0582	
(mm)	2.1469	1.3169	1.4779	
Sorting	Very poor			
	1.942	1.679	2.134	
Skewness	Strongly fine skewed			
	0.939	1.385	0.421	
Kurtosis	Very leptokurtic			
	0.264	1.543	1.828	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
47.10	44.62	6.20	2.07	8.27
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.2821	7.1666	-2.8413	
10	0.1903	4.8332	-2.2730	
16	0.1660	4.2173	-2.0763	
25	0.1336	3.3938	-1.7629	
40	0.0895	2.2734	-1.1849	
50	0.0733	1.8613	-0.8963	
70	0.0430	1.0931	-0.1284	
75	0.0354	0.9000	0.1520	
84	0.0162	0.4112	1.2820	
90	0.0041	0.1047	3.2562	
95	0.0008	0.0192	5.7002	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



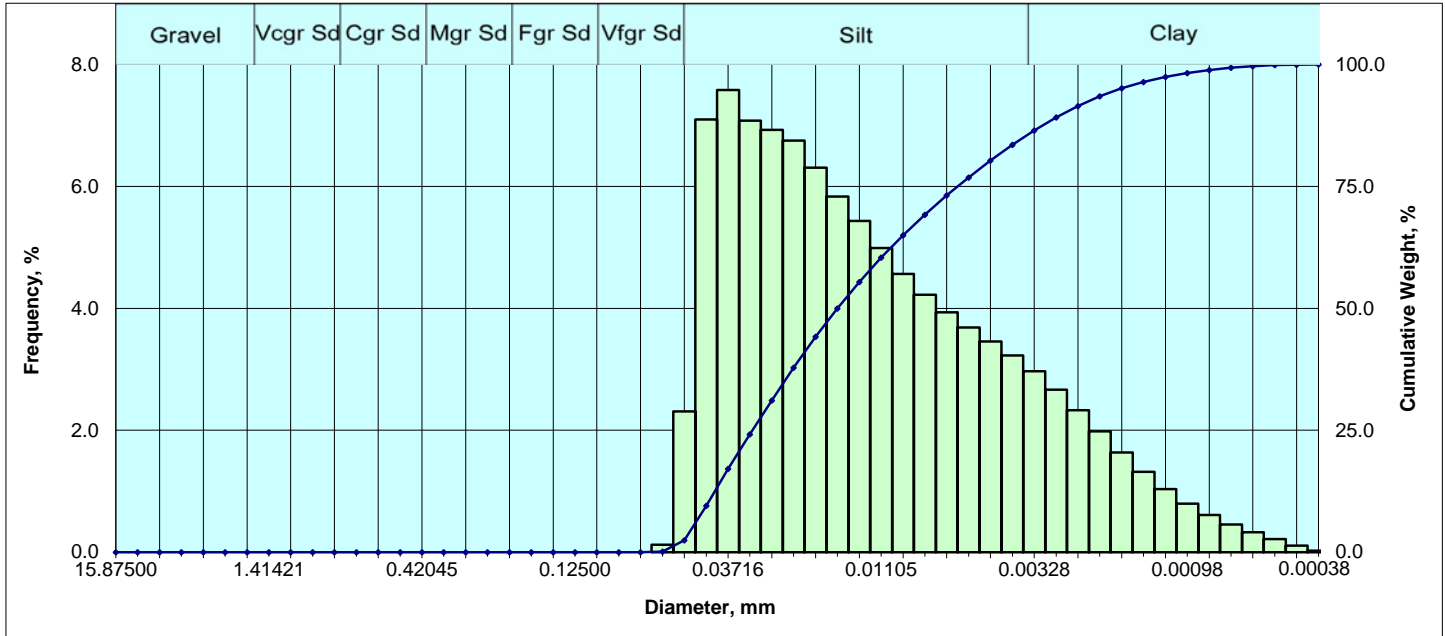
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.055	0.05
	325	0.001740	0.04419	4.50	2.114	2.17
	400	0.001463	0.03716	4.75	7.480	9.65
	450	0.001230	0.03125	5.00	8.568	18.22
	500	0.001035	0.02628	5.25	6.689	24.90
	635	0.000870	0.02210	5.50	5.635	30.54
		0.000732	0.01858	5.75	5.851	36.39
		0.000615	0.01562	6.00	5.941	42.33
		0.000517	0.01314	6.25	5.504	47.84
		0.000435	0.01105	6.50	5.119	52.96
		0.000366	0.00929	6.75	4.791	57.75
		0.000308	0.00781	7.00	4.529	62.28
	0.000259	0.00657	7.25	4.387	66.66	
	0.000217	0.00552	7.50	4.265	70.93	
	0.000183	0.00465	7.75	4.125	75.05	
	0.000154	0.00391	8.00	3.966	79.02	
Clay		0.000129	0.00328	8.25	3.696	82.71
		0.000109	0.00276	8.50	3.349	86.06
		0.000091	0.00232	8.75	2.939	89.00
		0.000077	0.00195	9.00	2.496	91.50
		0.000065	0.00164	9.25	2.065	93.56
		0.000054	0.00138	9.50	1.667	95.23
		0.000046	0.00116	9.75	1.322	96.55
		0.000038	0.00098	10.00	1.040	97.59
		0.000032	0.00082	10.25	0.813	98.40
		0.000027	0.00069	10.50	0.625	99.03
		0.000023	0.00058	10.75	0.460	99.49
		0.000019	0.00049	11.00	0.309	99.80
		0.000016	0.00041	11.25	0.162	99.96
		0.000015	0.00038	11.50	0.039	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0123	0.0123	0.0123	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0154	0.0101	0.0107	
Sorting	Poor			
	2.372	1.705	1.591	
Skewness	Finely skewed			
	0.901	0.396	0.222	
Kurtosis	Platykurtic			
	0.310	0.429	0.801	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	79.02	20.98	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0016	0.0415	4.5896	
10	0.0015	0.0369	4.7595	
16	0.0013	0.0328	4.9311	
25	0.0010	0.0262	5.2539	
40	0.0007	0.0168	5.8966	
50	0.0005	0.0123	6.3504	
70	0.0002	0.0058	7.4418	
75	0.0002	0.0047	7.7465	
84	0.0001	0.0031	8.3409	
90	0.0001	0.0022	8.8448	
95	0.0001	0.0014	9.4629	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



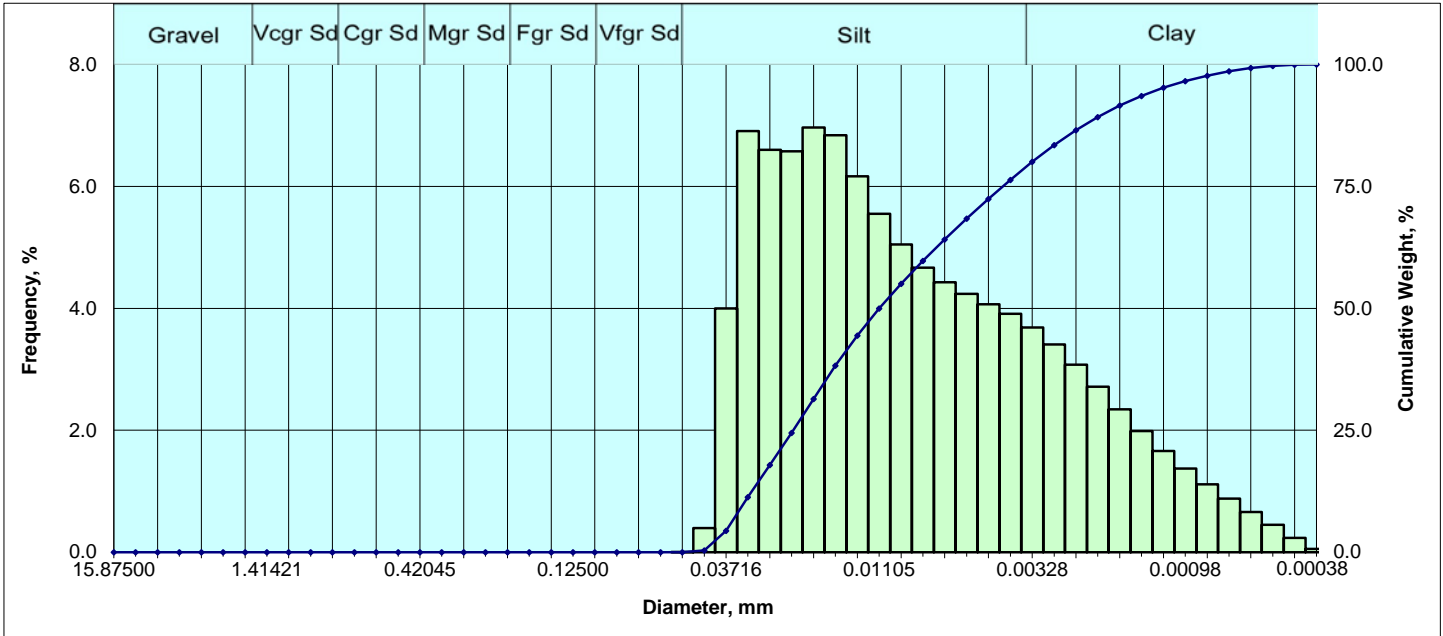
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.124	0.12
	270	0.002069	0.05256	4.25	2.312	2.44
	325	0.001740	0.04419	4.50	7.096	9.53
	400	0.001463	0.03716	4.75	7.579	17.11
	450	0.001230	0.03125	5.00	7.077	24.19
	500	0.001035	0.02628	5.25	6.928	31.12
	635	0.000870	0.02210	5.50	6.750	37.87
		0.000732	0.01858	5.75	6.307	44.17
		0.000615	0.01562	6.00	5.834	50.01
		0.000517	0.01314	6.25	5.434	55.44
		0.000435	0.01105	6.50	4.987	60.43
Clay		0.000366	0.00929	6.75	4.565	64.99
		0.000308	0.00781	7.00	4.223	69.22
		0.000259	0.00657	7.25	3.934	73.15
		0.000217	0.00552	7.50	3.686	76.84
		0.000183	0.00465	7.75	3.457	80.29
		0.000154	0.00391	8.00	3.230	83.52
		0.000129	0.00328	8.25	2.966	86.49
		0.000109	0.00276	8.50	2.664	89.15
		0.000091	0.00232	8.75	2.330	91.48
		0.000077	0.00195	9.00	1.982	93.47
		0.000065	0.00164	9.25	1.638	95.10
		0.000054	0.00138	9.50	1.319	96.42
		0.000046	0.00116	9.75	1.036	97.46
		0.000038	0.00098	10.00	0.799	98.26
		0.000032	0.00082	10.25	0.610	98.87
	0.000027	0.00069	10.50	0.455	99.32	
	0.000023	0.00058	10.75	0.326	99.65	
	0.000019	0.00049	11.00	0.214	99.86	
	0.000016	0.00041	11.25	0.110	99.97	
	0.000015	0.00038	11.50	0.027	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0156	0.0156	0.0156	
Mean	Silt sized			
(in)	0.0007	0.0005	0.0005	
(mm)	0.0184	0.0121	0.0131	
Sorting	Poor			
	2.252	1.663	1.574	
Skewness	Finely skewed			
	0.871	0.472	0.273	
Kurtosis	Platykurtic			
	0.299	0.472	0.857	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.12	83.40	16.48	99.88
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0020	0.0495	4.3354	
10	0.0017	0.0438	4.5143	
16	0.0015	0.0382	4.7105	
25	0.0012	0.0307	5.0272	
40	0.0008	0.0209	5.5798	
50	0.0006	0.0156	5.9997	
70	0.0003	0.0076	7.0464	
75	0.0002	0.0060	7.3700	
84	0.0001	0.0038	8.0373	
90	0.0001	0.0026	8.5858	
95	0.0001	0.0017	9.2327	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



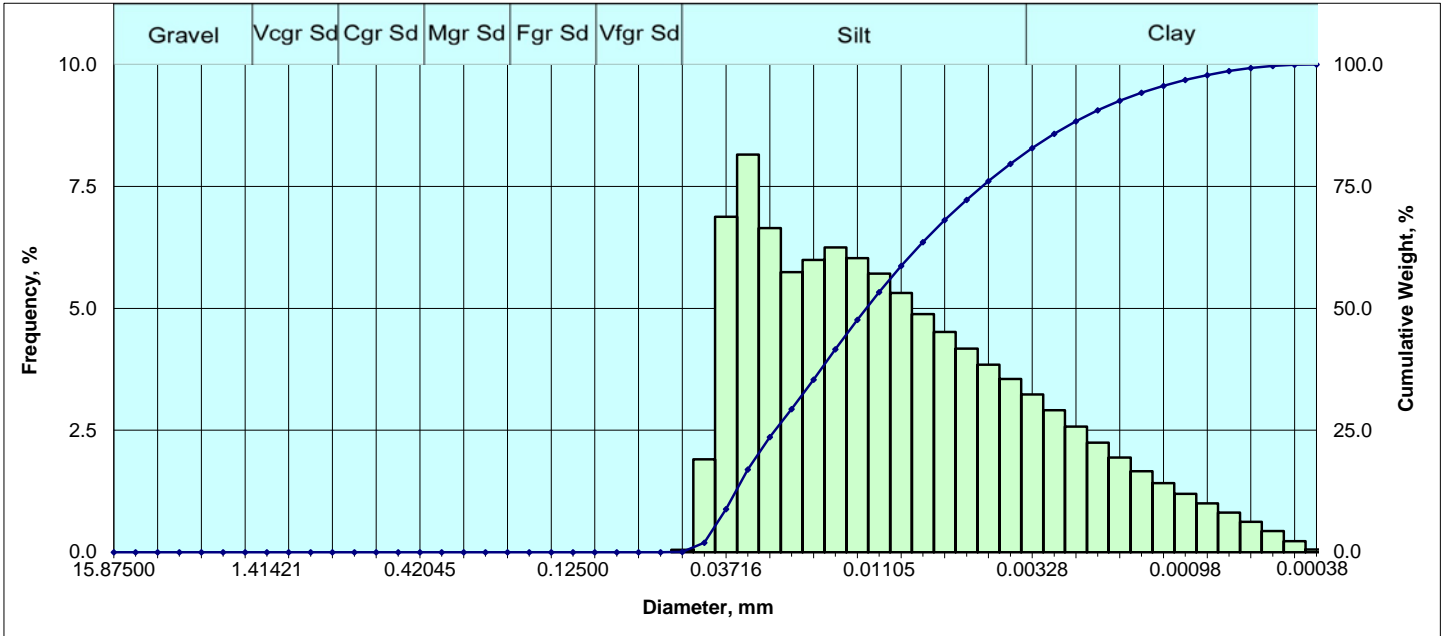
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.001	0.00
	325	0.001740	0.04419	4.50	0.395	0.40
	400	0.001463	0.03716	4.75	3.996	4.39
	450	0.001230	0.03125	5.00	6.907	11.30
	500	0.001035	0.02628	5.25	6.601	17.90
	635	0.000870	0.02210	5.50	6.576	24.48
		0.000732	0.01858	5.75	6.966	31.44
		0.000615	0.01562	6.00	6.837	38.28
		0.000517	0.01314	6.25	6.166	44.45
		0.000435	0.01105	6.50	5.549	50.00
		0.000366	0.00929	6.75	5.050	55.05
		0.000308	0.00781	7.00	4.669	59.71
	0.000259	0.00657	7.25	4.427	64.14	
	0.000217	0.00552	7.50	4.239	68.38	
	0.000183	0.00465	7.75	4.067	72.45	
	0.000154	0.00391	8.00	3.910	76.36	
Clay		0.000129	0.00328	8.25	3.685	80.04
		0.000109	0.00276	8.50	3.406	83.45
		0.000091	0.00232	8.75	3.077	86.53
		0.000077	0.00195	9.00	2.713	89.24
		0.000065	0.00164	9.25	2.344	91.58
		0.000054	0.00138	9.50	1.988	93.57
		0.000046	0.00116	9.75	1.662	95.23
		0.000038	0.00098	10.00	1.371	96.60
		0.000032	0.00082	10.25	1.114	97.72
		0.000027	0.00069	10.50	0.880	98.60
		0.000023	0.00058	10.75	0.660	99.26
		0.000019	0.00049	11.00	0.448	99.71
		0.000016	0.00041	11.25	0.236	99.94
		0.000015	0.00038	11.50	0.057	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0110	0.0110	0.0110	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0004	
(mm)	0.0130	0.0086	0.0094	
Sorting	Poor			
	2.290	1.684	1.591	
Skewness	Finely skewed			
	0.863	0.440	0.256	
Kurtosis	Platykurtic			
	0.290	0.467	0.847	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	76.36	23.64	100.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0014	0.0366	4.7703	
10	0.0013	0.0324	4.9495	
16	0.0011	0.0277	5.1735	
25	0.0009	0.0218	5.5174	
40	0.0006	0.0149	6.0655	
50	0.0004	0.0110	6.5002	
70	0.0002	0.0052	7.5944	
75	0.0002	0.0042	7.9082	
84	0.0001	0.0027	8.5418	
90	0.0001	0.0019	9.0766	
95	0.0000	0.0012	9.7122	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



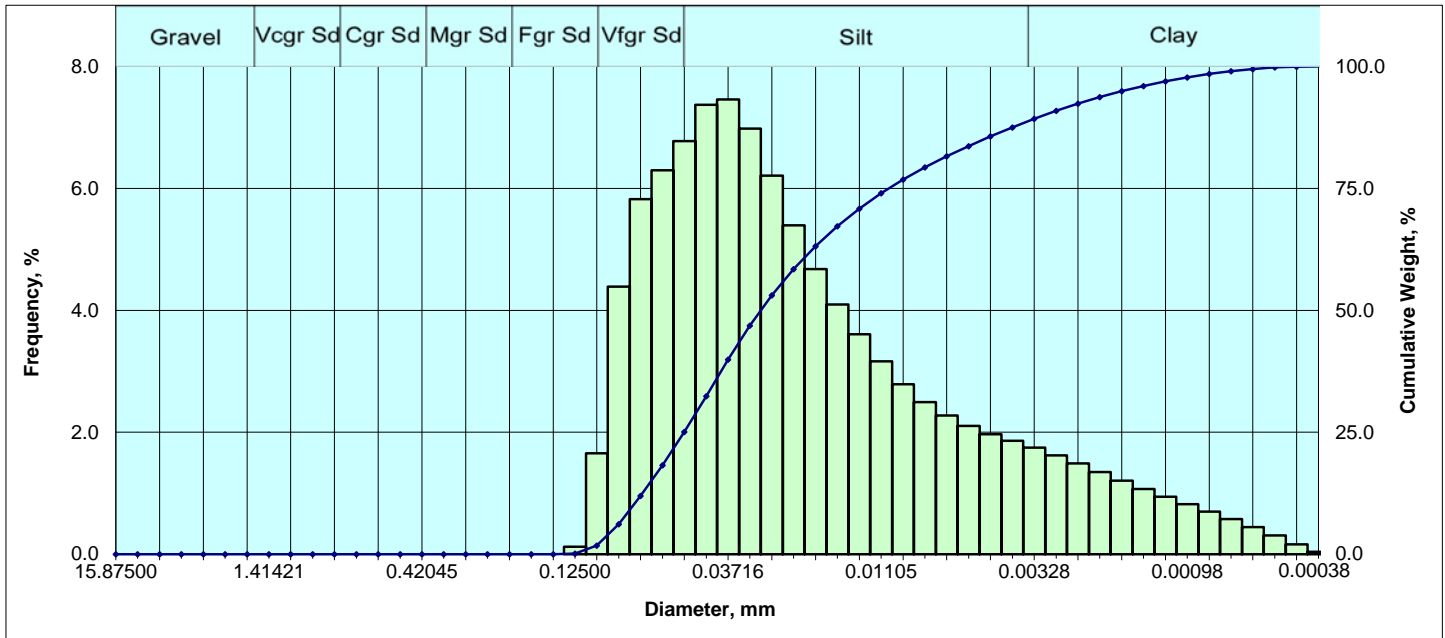
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.049	0.05
	325	0.001740	0.04419	4.50	1.907	1.96
	400	0.001463	0.03716	4.75	6.880	8.84
	450	0.001230	0.03125	5.00	8.154	16.99
	500	0.001035	0.02628	5.25	6.646	23.64
	635	0.000870	0.02210	5.50	5.740	29.37
		0.000732	0.01858	5.75	5.996	35.37
		0.000615	0.01562	6.00	6.247	41.62
		0.000517	0.01314	6.25	6.032	47.65
		0.000435	0.01105	6.50	5.715	53.36
		0.000366	0.00929	6.75	5.313	58.68
		0.000308	0.00781	7.00	4.881	63.56
	0.000259	0.00657	7.25	4.517	68.07	
	0.000217	0.00552	7.50	4.173	72.25	
	0.000183	0.00465	7.75	3.847	76.10	
	0.000154	0.00391	8.00	3.553	79.65	
Clay		0.000129	0.00328	8.25	3.234	82.88
		0.000109	0.00276	8.50	2.909	85.79
		0.000091	0.00232	8.75	2.578	88.37
		0.000077	0.00195	9.00	2.249	90.62
		0.000065	0.00164	9.25	1.942	92.56
		0.000054	0.00138	9.50	1.662	94.22
		0.000046	0.00116	9.75	1.417	95.64
		0.000038	0.00098	10.00	1.200	96.84
		0.000032	0.00082	10.25	1.004	97.84
		0.000027	0.00069	10.50	0.815	98.66
		0.000023	0.00058	10.75	0.625	99.28
		0.000019	0.00049	11.00	0.432	99.71
		0.000016	0.00041	11.25	0.230	99.94
		0.000015	0.00038	11.50	0.056	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0123	0.0123	0.0123	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0151	0.0099	0.0107	
Sorting	Poor			
	2.273	1.687	1.605	
Skewness	Finely skewed			
	0.906	0.457	0.244	
Kurtosis	Platykurtic			
	0.298	0.490	0.870	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	79.65	20.35	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0016	0.0411	4.6053
10		0.0014	0.0363	4.7832
16		0.0013	0.0320	4.9673
25		0.0010	0.0253	5.3056
40		0.0006	0.0164	5.9310
50		0.0005	0.0123	6.3477
70		0.0002	0.0061	7.3600
75		0.0002	0.0049	7.6743
84		0.0001	0.0031	8.3410
90		0.0001	0.0021	8.9269
95		0.0000	0.0013	9.6321

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



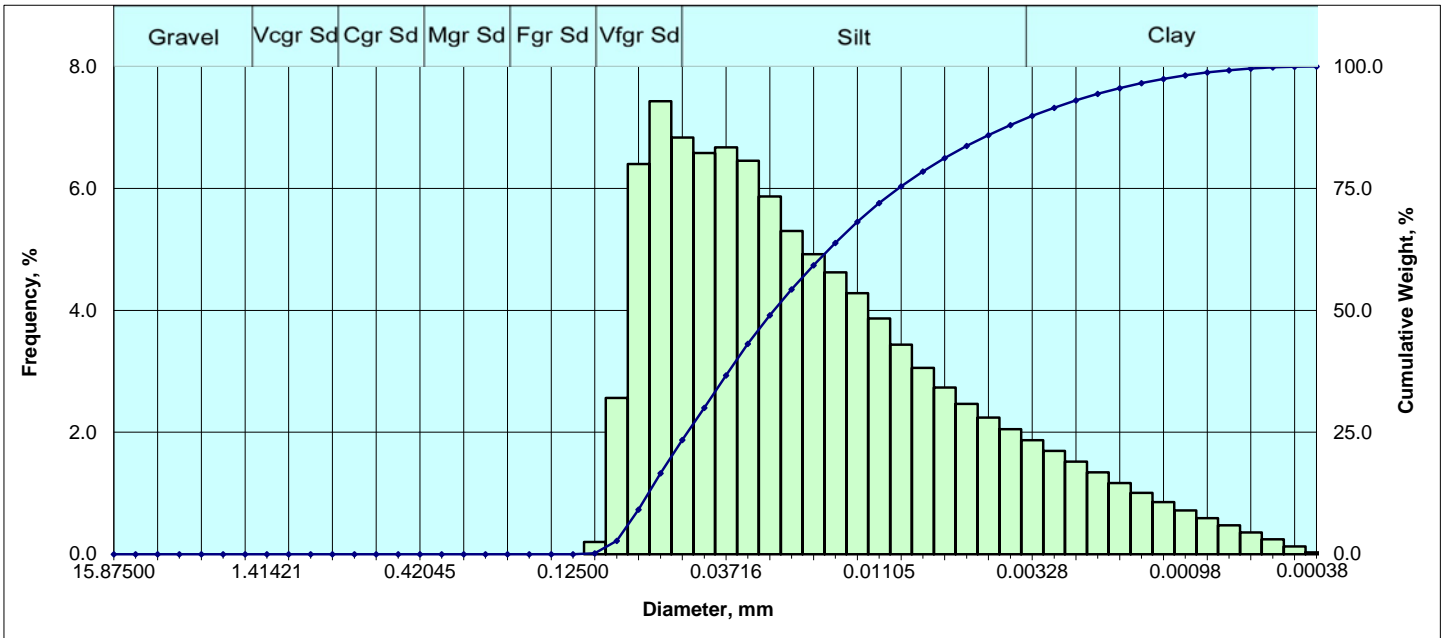
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.121	0.12
	140	0.004138	0.10511	3.25	1.654	1.78
	170	0.003480	0.08839	3.50	4.387	6.16
	200	0.002926	0.07433	3.75	5.826	11.99
Silt	230	0.002461	0.06250	4.00	6.296	18.28
	270	0.002069	0.05256	4.25	6.776	25.06
	325	0.001740	0.04419	4.50	7.373	32.43
	400	0.001463	0.03716	4.75	7.457	39.89
	450	0.001230	0.03125	5.00	6.981	46.87
	500	0.001035	0.02628	5.25	6.211	53.08
	635	0.000870	0.02210	5.50	5.393	58.48
		0.000732	0.01858	5.75	4.676	63.15
		0.000615	0.01562	6.00	4.097	67.25
		0.000517	0.01314	6.25	3.610	70.86
		0.000435	0.01105	6.50	3.166	74.02
		0.000366	0.00929	6.75	2.788	76.81
Clay		0.000308	0.00781	7.00	2.496	79.31
		0.000259	0.00657	7.25	2.275	81.58
		0.000217	0.00552	7.50	2.105	83.69
		0.000183	0.00465	7.75	1.970	85.66
		0.000154	0.00391	8.00	1.860	87.52
		0.000129	0.00328	8.25	1.747	89.26
		0.000109	0.00276	8.50	1.624	90.89
		0.000091	0.00232	8.75	1.489	92.38
		0.000077	0.00195	9.00	1.348	93.73
		0.000065	0.00164	9.25	1.206	94.93
		0.000054	0.00138	9.50	1.070	96.00
		0.000046	0.00116	9.75	0.943	96.95
		0.000038	0.00098	10.00	0.820	97.76
		0.000032	0.00082	10.25	0.700	98.46
		0.000027	0.00069	10.50	0.576	99.04
	0.000023	0.00058	10.75	0.445	99.49	
	0.000019	0.00049	11.00	0.310	99.80	
	0.000016	0.00041	11.25	0.164	99.96	
	0.000015	0.00038	11.50	0.040	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0011	0.0011	0.0011	
(mm)	0.0287	0.0287	0.0287	
Mean	Silt sized			
(in)	0.0012	0.0007	0.0009	
(mm)	0.0315	0.0190	0.0218	
Sorting	Poor			
	2.246	1.816	1.792	
Skewness	Strongly fine skewed			
	0.815	0.675	0.375	
Kurtosis	Mesokurtic			
	0.277	0.606	1.024	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	18.28	69.23	12.48	81.72
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0037	0.0928	3.4294	
10	0.0031	0.0791	3.6597	
16	0.0026	0.0668	3.9042	
25	0.0021	0.0526	4.2476	
40	0.0015	0.0371	4.7536	
50	0.0011	0.0287	5.1205	
70	0.0005	0.0137	6.1865	
75	0.0004	0.0104	6.5826	
84	0.0002	0.0054	7.5368	
90	0.0001	0.0030	8.3579	
95	0.0001	0.0016	9.2646	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



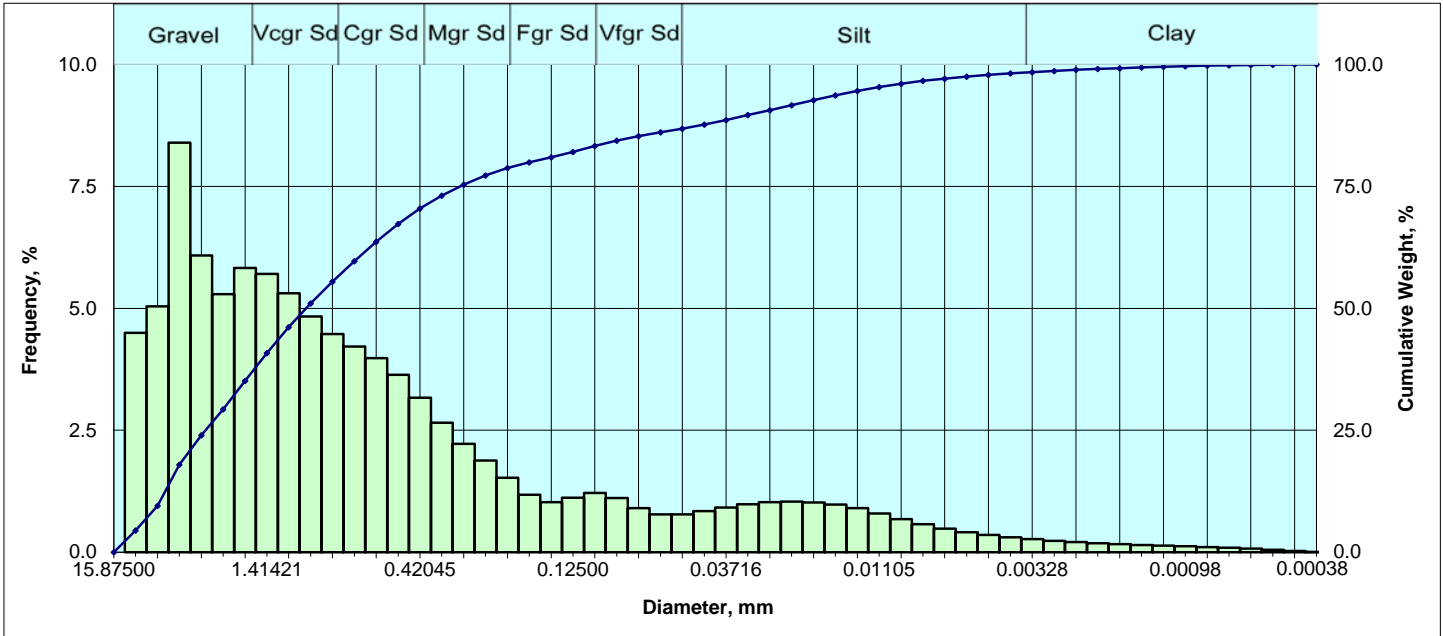
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.200	0.20
	170	0.003480	0.08839	3.50	2.566	2.77
	200	0.002926	0.07433	3.75	6.400	9.17
Silt	230	0.002461	0.06250	4.00	7.427	16.59
	270	0.002069	0.05256	4.25	6.835	23.43
	325	0.001740	0.04419	4.50	6.582	30.01
	400	0.001463	0.03716	4.75	6.675	36.69
	450	0.001230	0.03125	5.00	6.451	43.14
	500	0.001035	0.02628	5.25	5.868	49.00
	635	0.000870	0.02210	5.50	5.301	54.31
		0.000732	0.01858	5.75	4.922	59.23
		0.000615	0.01562	6.00	4.624	63.85
		0.000517	0.01314	6.25	4.282	68.13
		0.000435	0.01105	6.50	3.865	72.00
Clay		0.000366	0.00929	6.75	3.438	75.44
		0.000308	0.00781	7.00	3.056	78.49
		0.000259	0.00657	7.25	2.735	81.23
		0.000217	0.00552	7.50	2.467	83.70
		0.000183	0.00465	7.75	2.240	85.94
		0.000154	0.00391	8.00	2.051	87.99
		0.000129	0.00328	8.25	1.872	89.86
		0.000109	0.00276	8.50	1.696	91.55
		0.000091	0.00232	8.75	1.519	93.07
		0.000077	0.00195	9.00	1.342	94.42
		0.000065	0.00164	9.25	1.169	95.58
		0.000054	0.00138	9.50	1.006	96.59
		0.000046	0.00116	9.75	0.856	97.45
		0.000038	0.00098	10.00	0.718	98.16
		0.000032	0.00082	10.25	0.594	98.76
	0.000027	0.00069	10.50	0.475	99.23	
	0.000023	0.00058	10.75	0.360	99.59	
	0.000019	0.00049	11.00	0.246	99.84	
	0.000016	0.00041	11.25	0.130	99.97	
	0.000015	0.00038	11.50	0.031	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0010	0.0010	0.0010	
(mm)	0.0255	0.0255	0.0255	
Mean	Silt sized			
(in)	0.0012	0.0007	0.0008	
(mm)	0.0300	0.0185	0.0206	
Sorting	Poor			
	2.305	1.777	1.727	
Skewness	Strongly fine skewed			
	0.860	0.595	0.321	
Kurtosis	Mesokurtic			
	0.294	0.558	0.942	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	16.59	71.39	12.01	83.41
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0033	0.0835	3.5824	
10	0.0029	0.0730	3.7760	
16	0.0025	0.0634	3.9784	
25	0.0020	0.0506	4.3059	
40	0.0013	0.0341	4.8730	
50	0.0010	0.0255	5.2937	
70	0.0005	0.0121	6.3653	
75	0.0004	0.0095	6.7157	
84	0.0002	0.0054	7.5316	
90	0.0001	0.0032	8.2693	
95	0.0001	0.0018	9.1197	

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



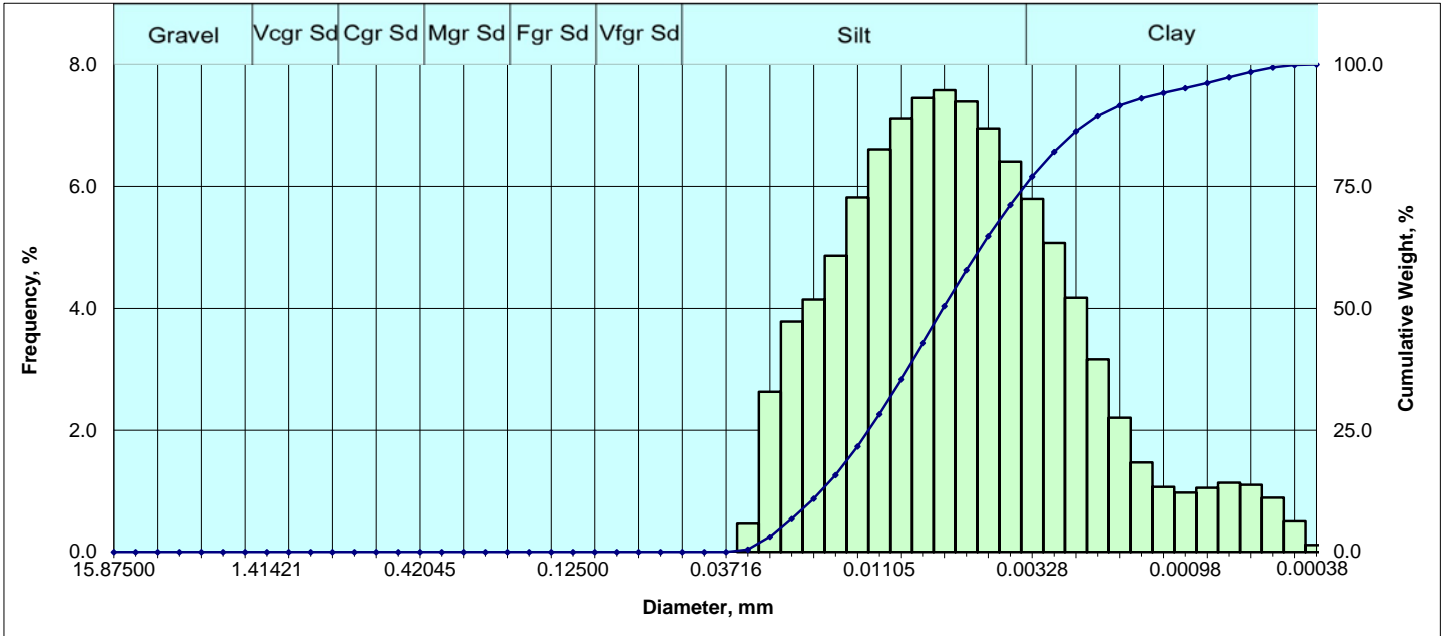
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	4.496	4.50
	4	0.187008	4.75000	-2.25	5.042	9.54
	6	0.131890	3.35000	-1.75	8.395	17.93
	8	0.092913	2.36000	-1.25	6.085	24.02
V Crse Sand	10	0.078740	2.00000	-1.00	5.291	29.31
	12	0.066212	1.68179	-0.75	5.831	35.14
	14	0.055678	1.41421	-0.50	5.709	40.85
	16	0.046819	1.18921	-0.25	5.308	46.16
Coarse Sand	18	0.039370	1.00000	0.00	4.834	50.99
	20	0.033106	0.84090	0.25	4.472	55.46
	25	0.027839	0.70711	0.50	4.217	59.68
	30	0.023410	0.59460	0.75	3.977	63.66
Medium Sand	35	0.019685	0.50000	1.00	3.638	67.29
	40	0.016553	0.42045	1.25	3.168	70.46
	45	0.013919	0.35355	1.50	2.658	73.12
	50	0.011705	0.29730	1.75	2.225	75.35
Fine Sand	60	0.009843	0.25000	2.00	1.878	77.22
	70	0.008277	0.21022	2.25	1.527	78.75
	80	0.006960	0.17678	2.50	1.179	79.93
	100	0.005852	0.14865	2.75	1.025	80.95
V. Fine Sand	120	0.004921	0.12500	3.00	1.120	82.07
	140	0.004138	0.10511	3.25	1.214	83.29
	170	0.003480	0.08839	3.50	1.112	84.40
	200	0.002926	0.07433	3.75	0.906	85.31
Silt	230	0.002461	0.06250	4.00	0.778	86.08
	270	0.002069	0.05256	4.25	0.775	86.86
	325	0.001740	0.04419	4.50	0.846	87.71
	400	0.001463	0.03716	4.75	0.919	88.62
	450	0.001230	0.03125	5.00	0.984	89.61
	500	0.001035	0.02628	5.25	1.028	90.64
	635	0.000870	0.02210	5.50	1.037	91.67
		0.000732	0.01858	5.75	1.018	92.69
		0.000615	0.01562	6.00	0.976	93.67
		0.000517	0.01314	6.25	0.904	94.57
		0.000435	0.01105	6.50	0.796	95.37
		0.000366	0.00929	6.75	0.680	96.05
		0.000308	0.00781	7.00	0.575	96.62
	0.000259	0.00657	7.25	0.486	97.11	
	0.000217	0.00552	7.50	0.412	97.52	
	0.000183	0.00465	7.75	0.353	97.87	
	0.000154	0.00391	8.00	0.305	98.18	
Clay		0.000129	0.00328	8.25	0.267	98.45
		0.000109	0.00276	8.50	0.235	98.68
		0.000091	0.00232	8.75	0.208	98.89
		0.000077	0.00195	9.00	0.185	99.07
		0.000065	0.00164	9.25	0.165	99.24
		0.000054	0.00138	9.50	0.149	99.39
		0.000046	0.00116	9.75	0.135	99.52
		0.000038	0.00098	10.00	0.121	99.64
		0.000032	0.00082	10.25	0.107	99.75
		0.000027	0.00069	10.50	0.091	99.84
		0.000023	0.00058	10.75	0.072	99.91
		0.000019	0.00049	11.00	0.051	99.97
		0.000016	0.00041	11.25	0.027	99.99
		0.000015	0.00038	11.50	0.007	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very coarse sand sized			
(in)	0.0409	0.0409	0.0409	
(mm)	1.0388	1.0388	1.0388	
Mean	Coarse sand sized			
(in)	0.0512	0.0232	0.0280	
(mm)	1.2996	0.5888	0.7115	
Sorting	Very poor			
	2.737	2.641	2.768	
Skewness	Strongly fine skewed			
	0.806	0.628	0.329	
Kurtosis	Lepokurtic			
	0.214	0.809	1.347	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
29.31	56.77	12.09	1.82	13.92
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.3553	9.0250	-3.1739	
10	0.1840	4.6730	-2.2243	
16	0.1446	3.6724	-1.8767	
25	0.0903	2.2932	-1.1974	
40	0.0572	1.4540	-0.5400	
50	0.0409	1.0388	-0.0549	
70	0.0170	0.4321	1.2107	
75	0.0120	0.3060	1.7083	
84	0.0037	0.0944	3.4051	
90	0.0012	0.0294	5.0902	
95	0.0005	0.0120	6.3791	

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



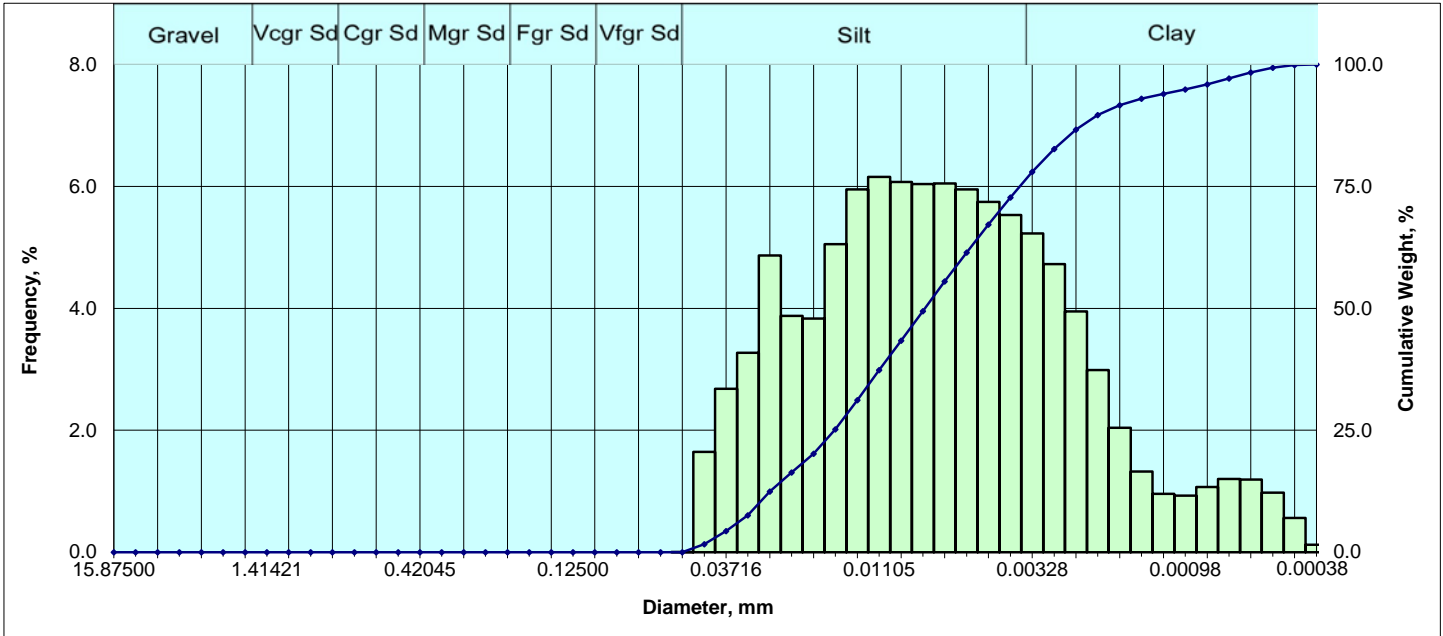
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.000	0.00
	400	0.001463	0.03716	4.75	0.000	0.00
	450	0.001230	0.03125	5.00	0.476	0.48
	500	0.001035	0.02628	5.25	2.633	3.11
	635	0.000870	0.02210	5.50	3.785	6.89
		0.000732	0.01858	5.75	4.145	11.04
		0.000615	0.01562	6.00	4.863	15.90
		0.000517	0.01314	6.25	5.819	21.72
		0.000435	0.01105	6.50	6.605	28.33
		0.000366	0.00929	6.75	7.112	35.44
	0.000308	0.00781	7.00	7.452	42.89	
	0.000259	0.00657	7.25	7.583	50.47	
	0.000217	0.00552	7.50	7.397	57.87	
	0.000183	0.00465	7.75	6.947	64.82	
	0.000154	0.00391	8.00	6.405	71.22	
Clay		0.000129	0.00328	8.25	5.796	77.02
		0.000109	0.00276	8.50	5.070	82.09
		0.000091	0.00232	8.75	4.174	86.26
		0.000077	0.00195	9.00	3.165	89.43
		0.000065	0.00164	9.25	2.207	91.64
		0.000054	0.00138	9.50	1.477	93.11
		0.000046	0.00116	9.75	1.073	94.18
		0.000038	0.00098	10.00	0.983	95.17
		0.000032	0.00082	10.25	1.060	96.23
		0.000027	0.00069	10.50	1.143	97.37
		0.000023	0.00058	10.75	1.108	98.48
		0.000019	0.00049	11.00	0.897	99.37
		0.000016	0.00041	11.25	0.513	99.89
		0.000015	0.00038	11.50	0.113	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0066	0.0066	0.0066	
Mean	Silt sized			
(in)	0.0003	0.0002	0.0003	
(mm)	0.0078	0.0063	0.0064	
Sorting	Poor			
	1.859	1.303	1.346	
Skewness	Finely skewed			
	0.979	0.329	0.122	
Kurtosis	Mesokurtic			
	0.244	0.760	1.050	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	71.22	28.78	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0010	0.0242	5.3695
10		0.0008	0.0195	5.6831
16		0.0006	0.0156	6.0038
25		0.0005	0.0121	6.3687
40		0.0003	0.0084	6.8978
50		0.0003	0.0066	7.2330
70		0.0002	0.0040	7.9488
75		0.0001	0.0035	8.1579
84		0.0001	0.0026	8.6091
90		0.0001	0.0019	9.0608
95		0.0000	0.0010	9.9543

**All Grain Sizes Classified using Wentworth Scale



Sieve and Laser Particle Size Analysis



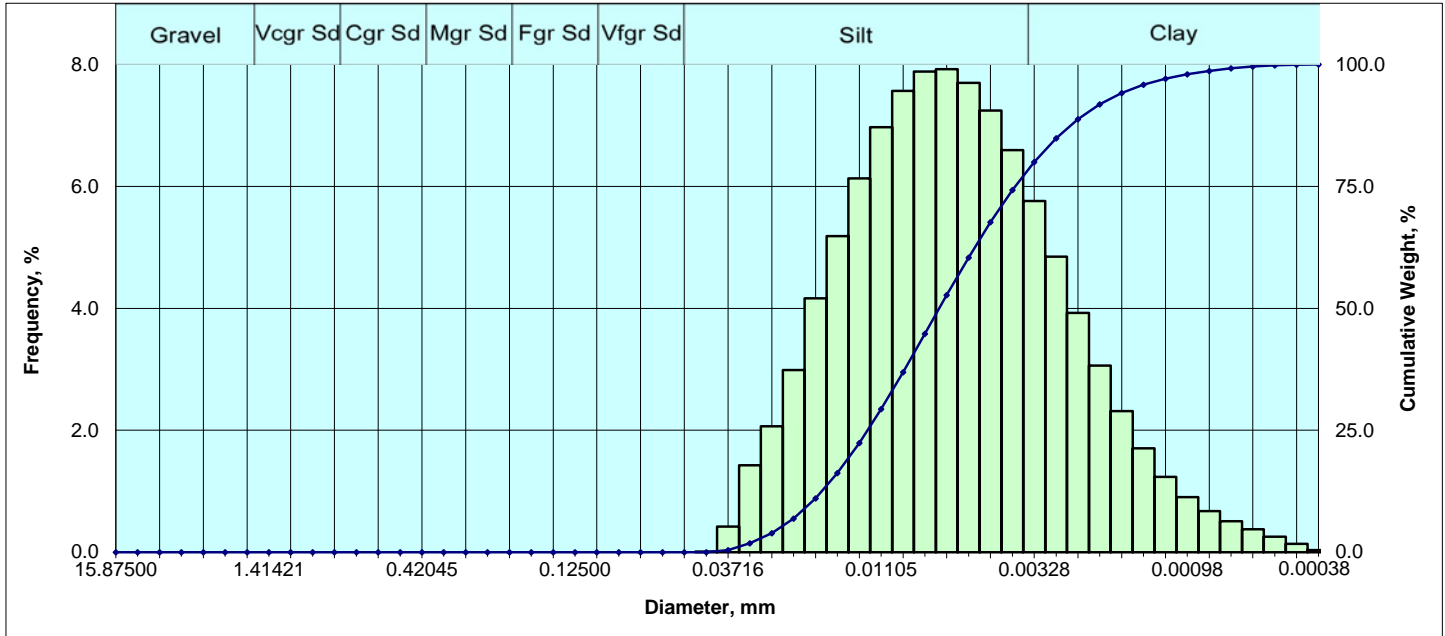
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.003	0.00
	325	0.001740	0.04419	4.50	1.648	1.65
	400	0.001463	0.03716	4.75	2.683	4.33
	450	0.001230	0.03125	5.00	3.273	7.61
	500	0.001035	0.02628	5.25	4.868	12.48
	635	0.000870	0.02210	5.50	3.877	16.35
		0.000732	0.01858	5.75	3.835	20.19
		0.000615	0.01562	6.00	5.054	25.24
		0.000517	0.01314	6.25	5.949	31.19
		0.000435	0.01105	6.50	6.157	37.35
Clay		0.000366	0.00929	6.75	6.074	43.42
		0.000308	0.00781	7.00	6.038	49.46
		0.000259	0.00657	7.25	6.046	55.51
		0.000217	0.00552	7.50	5.950	61.46
		0.000183	0.00465	7.75	5.744	67.20
		0.000154	0.00391	8.00	5.530	72.73
		0.000129	0.00328	8.25	5.229	77.96
		0.000109	0.00276	8.50	4.724	82.68
		0.000091	0.00232	8.75	3.950	86.63
		0.000077	0.00195	9.00	2.987	89.62
		0.000065	0.00164	9.25	2.042	91.66
		0.000054	0.00138	9.50	1.326	92.99
		0.000046	0.00116	9.75	0.960	93.95
		0.000038	0.00098	10.00	0.928	94.88
		0.000032	0.00082	10.25	1.068	95.94
	0.000027	0.00069	10.50	1.201	97.15	
	0.000023	0.00058	10.75	1.191	98.34	
	0.000019	0.00049	11.00	0.977	99.31	
	0.000016	0.00041	11.25	0.562	99.88	
	0.000015	0.00038	11.50	0.124	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0077	0.0077	0.0077	
Mean	Silt sized			
(in)	0.0004	0.0003	0.0003	
(mm)	0.0097	0.0077	0.0077	
Sorting	Poor			
	2.082	1.552	1.568	
Skewness	Near symmetrical			
	0.983	0.252	0.077	
Kurtosis	Mesokurtic			
	0.225	0.685	1.013	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	72.73	27.27	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5		0.0014	0.0360	4.7974
10		0.0011	0.0288	5.1174
16		0.0009	0.0225	5.4754
25		0.0006	0.0158	5.9870
40		0.0004	0.0103	6.6039
50		0.0003	0.0077	7.0206
70		0.0002	0.0043	7.8711
75		0.0001	0.0036	8.1032
84		0.0001	0.0026	8.5786
90		0.0001	0.0019	9.0433
95		0.0000	0.0010	10.0268

**All Grain Sizes Classed using Wentworth Scale



Sieve and Laser Particle Size Analysis



	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.010	0.01
	400	0.001463	0.03716	4.75	0.419	0.43
	450	0.001230	0.03125	5.00	1.427	1.86
	500	0.001035	0.02628	5.25	2.065	3.92
	635	0.000870	0.02210	5.50	2.986	6.91
		0.000732	0.01858	5.75	4.165	11.07
		0.000615	0.01562	6.00	5.183	16.25
		0.000517	0.01314	6.25	6.133	22.39
		0.000435	0.01105	6.50	6.969	29.36
Clay		0.000366	0.00929	6.75	7.567	36.92
		0.000308	0.00781	7.00	7.883	44.81
		0.000259	0.00657	7.25	7.922	52.73
		0.000217	0.00552	7.50	7.697	60.43
		0.000183	0.00465	7.75	7.243	67.67
		0.000154	0.00391	8.00	6.594	74.26
		0.000129	0.00328	8.25	5.761	80.02
		0.000109	0.00276	8.50	4.847	84.87
		0.000091	0.00232	8.75	3.923	88.79
		0.000077	0.00195	9.00	3.061	91.86
		0.000065	0.00164	9.25	2.313	94.17
		0.000054	0.00138	9.50	1.704	95.87
		0.000046	0.00116	9.75	1.236	97.11
		0.000038	0.00098	10.00	0.904	98.01
		0.000032	0.00082	10.25	0.676	98.69
	0.000027	0.00069	10.50	0.510	99.20	
	0.000023	0.00058	10.75	0.376	99.58	
	0.000019	0.00049	11.00	0.256	99.83	
	0.000016	0.00041	11.25	0.136	99.97	
	0.000015	0.00038	11.50	0.033	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0070	0.0070	0.0070	
Mean	Silt sized			
(in)	0.0003	0.0003	0.0003	
(mm)	0.0081	0.0067	0.0068	
Sorting	Poor			
	1.797	1.233	1.227	
Skewness	Near symmetrical			
	0.983	0.156	0.072	
Kurtosis	Mesokurtic			
	0.246	0.635	0.977	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	74.26	25.74	100.00
Percentile [Weight, %]		Particle Diameter		
		[in.]	[mm]	[phi]
5	0.0010	0.0248	5.3354	
10	0.0008	0.0195	5.6814	
16	0.0006	0.0158	5.9866	
25	0.0005	0.0124	6.3387	
40	0.0003	0.0087	6.8424	
50	0.0003	0.0070	7.1589	
70	0.0002	0.0044	7.8335	
75	0.0002	0.0038	8.0296	
84	0.0001	0.0029	8.4517	
90	0.0001	0.0022	8.8433	
95	0.0001	0.0015	9.3665	

**All Grain Sizes Classed using Wentworth Scale

Code: W

To: Larry Kunkel, Core Laboratories
3470 Landco Drive, Bakersfield, CA 93308

NERT Project Work Order No. CL-2018-001
Nevada Environmental Reponse Trust (NERT)
Henderson, Nevada

Ramboll Project No.: 169000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST
for Sample Shipment Group 8 (sent 10/22/18)

Date: November 6, 2018
Submitted by: Ramboll, 2200 Powell Street, Suite 700
Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon	
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table		
1	RIDB-30	14.5-15.0	PT-RIDB30-14.5-15.0	Glass jar	X	X (1)							X
2	RIDB-30	25.0-25.5	PT-RIDB30-25.0-25.5	Glass jar	X	X (1)							X
3	RIDB-30	34.5-35.0	PT-RIDB30-34.5-35.0	wrapped core	X	X	X	X	X				X
4	RIDB-30	45.0-45.5	PT-RIDB30-45.0-45.5	wrapped core	X	X	X	X	X				X
5	RIDB-30	55.0-55.5	PT-RIDB30-55.0-55.5	wrapped core	X	X	X	X	X				X
6	RIDB-30	63.5-64.0	PT-RIDB30-63.5-64.0	wrapped core	X	X	X	X	X				X
7	RIDB-30	74.5-75.0	PT-RIDB30-74.5-75.0	wrapped core	X	X	X	X	X				X
8	RIDB-30	84.5-85.0	PT-RIDB30-84.5-85.0	wrapped core	X	X	X	X	X				X
9	RIDB-30	95.0-95.5	PT-RIDB30-95.0-95.5	wrapped core	X	X	X	X	X	V	32 ft	63 ft	X
10	RIDB-30	105.0-105.5	PT-RIDB30-105.0-105.5	wrapped core	X	X	X	X	X				X
11	RIDB-30	121.2-121.7	PT-RIDB30-121.2-121.7	Glass jar	X	X (1)	X	X	X	V	32	9.5	X
12	RIDB-30	123.5-124.0	PT-RIDB30-123.5-124.0	wrapped core	X	X	X	X	X	V	32 ft	91.5 ft	X
13	RIDB-30	134.6-135.0	PT-RIDB30-134.6-135.0	Glass jar	X	X (1)							X
14	RIDB-30	148.0-148.4	PT-RIDB30-148.0-148.4	Glass jar	X	X (1)							X
15	RIDB-31	15.0-15.5	PT-RIDB31-15.0-15.5	Glass jar	X	X (1)							X
16	RIDB-31	24.5-25.0	PT-RIDB31-24.5-25.0	Glass jar	X	X (1)							X
17	RIDB-31	35.0-35.5	PT-RIDB31-35.0-35.5	wrapped core	X	X	X	X	X				X
18	RIDB-31	45.0-45.5	PT-RIDB31-45.0-45.5	wrapped core	X	X	X	X	X				X
19	RIDB-31	55.0-55.5	PT-RIDB31-55.0-55.5	wrapped core	X	X	X	X	X				X
20	RIDB-31	65.0-65.5	PT-RIDB31-65.0-65.5	wrapped core	X	X	X	X	X				X
21	RIDB-31	75.0-75.5	PT-RIDB31-75.0-75.5	wrapped core	X	X	X	X	X				X
22	RIDB-31	78.5-79.0	PT-RIDB31-78.5-79.0	2 glass jars	X	X (1)							X
23	RIDB-31	85.0-85.6	PT-RIDB31-85.0-85.6	wrapped core	X	X	X	X	X				X
24	RIDB-31	95.0-95.5	PT-RIDB31-95.0-95.5	wrapped core	X	X	X	X	X				X
25	RIDB-31	105.0-105.5	PT-RIDB31-105.0-105.5	wrapped core	X	X	X	X	X	V	31 ft	74 ft	X
26	RIDB-31	120.0-120.6	PT-RIDB31-120.0-120.6	wrapped core	X	X	X	X	X				X
27	RIDB-31	138.0-138.5	PT-RIDB31-138.0-138.5	2 glass jars	X	X (1)							X
28	RIDB-31	149.0-149.5	PT-RIDB31-149.0-149.5	wrapped core	X	X	X	X	X	V	31 ft	118 ft	X

The right way
Jar switched

Code: W

To: Larry Kunkel, Core Laboratories
3470 Landco Drive, Bakersfield, CA 93308

NERT Project Work Order No. CL-2018-001
Nevada Environmental Reponse Trust (NERT)
Henderson, Nevada

Ramboll Project No.: 169000 6943-038 (Task M22D)

PHYSICAL TESTING REQUEST
for Sample Shipment Group 8 (sent 10/22/18)

Date: November 6, 2018
Submitted by: Ramboll, 2200 Powell Street, Suite 700
Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon	
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table		
29	RIDB-32	14.5-15.0	PT-RIDB32-14.5-15.0	2 glass jars	X	X (1)							X
30	RIDB-32	24.5-25.0	PT-RIDB32-24.5-25.0	2 glass jars	X	X (1)							X
31	RIDB-32	34.5-35.0	PT-RIDB32-34.5-35.0	2 glass jars	X	X (1)							X
32	RIDB-32	44.5-45.0	PT-RIDB32-44.5-45.0	2 glass jars	X	X (1)							X
33	RIDB-32	55.0-55.5	PT-RIDB32-55.0-55.5	wrapped core	X	X	X	X	X				X
34	RIDB-32	65.0-65.5	PT-RIDB32-65.0-65.5	wrapped core	X	X	X	X	X				X
35	RIDB-32	75.0-75.5	PT-RIDB32-75.0-75.5	wrapped core	X	X	X	X	X	V	34 ft	41 ft	X
36	RIDB-32	84.5-85.0	PT-RIDB32-84.5-85.0	wrapped core	X	X	X	X	X				X
37	RIDB-32	96.2-96.7	PT-RIDB32-96.2-96.7	wrapped core	X	X	X	X	X				X
38	RIDB-32	104.5-105.0	PT-RIDB32-104.5-105.0	wrapped core	X	X	X	X	X				X
39	RIDB-32	118.6-119.1	PT-RIDB32-118.6-119.1	wrapped core	X	X	X	X	X				X
40	RIDB-32	136.0-136.6	PT-RIDB32-136.0-136.6	wrapped core	X	X	X	X	X				X
41	RIDB-32	149.5-150.0	PT-RIDB32-149.5-150.0	wrapped core	X	X	X	X	X				X
A2	RIDB-33	14.5-15.0	PT-RIDB33-14.5-15.0	2 glass jars	X	X (1)							X
42	RIDB-33	25.0-25.5	PT-RIDB33-25.0-25.5	Glass jar	X	X (1)							X
43	RIDB-33	34.5-35.0	PT-RIDB33-34.5-35.0	Glass jar	X	X (1)							X
44	RIDB-33	45.0-45.5	PT-RIDB33-45.0-45.5	wrapped core	X	X	X	X	X				X
45	RIDB-33	55.0-55.5	PT-RIDB33-55.0-55.5	wrapped core	X	X	X	X	X				X
46	RIDB-33	64.5-65.0	PT-RIDB33-64.5-65.0	wrapped core	X	X	X	X	X				X
48	RIDB-33	75.0-75.4	PT-RIDB33-75.0-75.4	wrapped core	X	X	X	X	X	V	45 ft	30 ft	X
49	RIDB-33	85.0-85.5	PT-RIDB33-85.0-85.5	wrapped core	X	X	X	X	X				X
50	RIDB-33	95.0-95.5	PT-RIDB33-95.0-95.5	wrapped core	X	X	X	X	X				X
51	RIDB-33	106.2-106.7	PT-RIDB33-106.2-106.7	wrapped core	X	X	X	X	X	V	45 ft	61 ft	X
52	RIDB-33	120.0-120.5	PT-RIDB33-120.0-120.5	wrapped core	X	X	X	X	X	V	45 ft	75 ft	X
53	RIDB-33	135.0-135.5	PT-RIDB33-135.0-135.5	wrapped core	X	X	X	X	X				X
54	RIDB-33	149.6-150.0	PT-RIDB33-149.6-150.0	wrapped core	X	X	X	X	X	V	45 ft	104.6 ft	X
TOTALS:				54	54	38	38	38	38	9			54

PROJECT NAME/FACILITY ID NERT RI Phase 2 Modification ¹³ DATE 10/16/2018 FIELD PERSON A.Marr/ G. Miclette

PROJECT NUMBER 1690006943-013 PROJECT MANAGER: R.Russell/ G. Kinsall

PROJECT LOCATION HENDERSON, NV LABORATORY: Core Labs

Sampler: A. Marr
Signature: A. Marr

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (so) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	HOLD*	Analysis Required												COMMENTS			
PT-RIDB31-35.0-35.5	10/9/2018	1310	35.0-35.5	/	S	1	U	NO	X																*Hold Sample pending instructions from J. Donovan/Ramboll
PT-RIDB31-45.0-45.5	10/9/2018	1345	45.0-45.5	/	S	1	U	NO	X																
PT-RIDB31-55.0-55.5	10/9/2018	1405	55.0-55.5	/	S	1	U	NO	X																
PT-RIDB31-65.0-65.5	10/9/2018	1430	63.5-64.0	/	S	1	U	NO	X																
PT-RIDB31-75.0-75.5	10/9/2018	1445	75.0-75.5	/	S	1	U	NO	X																
PT-RIDB31-78.5-79.0	10/9/2018	1500	78.5-79.0	/	S	2	U	NO	X																
PT-RIDB31-85.0-85.6	10/9/2018	1510	85.0-85.6	/	S	1	U	NO	X																
PT-RIDB31-95.0-95.5	10/9/2018	1520	95.0-95.5	/	S	1	U	NO	X																
PT-RIDB31-105.0-105.5	10/9/2018	1535	105.0-105.5	/	S	1	U	NO	X																
PT-RIDB31-120.0-120.6	10/9/2018	1600	120.0-120.6	/	S	1	U	NO	X																
PT-RIDB31-138.0-138.5	10/10/2018	750	138.0-138.5	/	S	2	U	NO	X																
PT-RIDB31-149.0-149.5	10/10/2018	830	149.0-149.5	/	S	1	U	NO	X																
PT-RIDB32-14.5-15.0	10/10/2018	1100	14.5-15.0	/	S	2	U	NO	X																
PT-RIDB32-24.5-25.0	10/10/2018	1110	24.5-25.0	/	S	2	U	NO	X																
PT-RIDB32-34.5-35.0	10/10/2018	1125	34.5-35.0	/	S	2	U	NO	X																
PT-RIDB32-44.5-45.0	10/10/2018	1140	44.5-45.0	/	S	2	U	NO	X																
TOTAL																									

3 coolers

H = HCL; N = HNO; S = H2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY: G. Miclette (FedEx) <i>G. Miclette</i>	TIME/DATE: 10/16/2018 <i>1400</i>	RECEIVED BY COMPANY: <i>Jacey Bishop - Core Lab</i>	TIME/DATE: <i>1424 10/22/18</i>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY COMPANY:	TIME/DATE:		24 HOURS	5 DAYS
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY COMPANY:	TIME/DATE:	SAMPLE INTEGRITY INTACT Y N TEMP _____	48 HOURS	NORMAL
					SAMPLE INTEGRITY INTACT Y N	

SWBU Office Locations: 5 Park Plaza, Suite 500, Irvine, CA 92614 +1 949 261 5151 +1 949 261 6202
 350 S Grand Avenue, Suite 2800, Los Angeles, CA 90071 +1 213 943 6300 +1 213 943 6301
 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701

CHAIN-OF-CUSTODY FORM

PROJECT NAME/FACILITY ID NERT RI Phase 2 Modification DATE 10/16/2018 FIELD PERSON A.Marr/ G. Miclette

PROJECT NUMBER 1690006943-013 PROJECT MANAGER: R.Russell/ G. Kinsall

PROJECT LOCATION HENDERSON, NV LABORATORY: Core Labs

Sampler: A. Marr Signature: A. Marr	Analysis Required														COMMENTS					
	SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (50) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	HOLD*										
	PT-RIDB32-55.0-55.5	10/10/2018	1215	55.0-55.5	/	S	1	U	NO	X										*Hold Sample pending
	PT-RIDB32-65.0-65.5	10/10/2018	1245	65.0-65.5	/	S	1	U	NO	X										instructions from
	PT-RIDB32-75.0-75.5	10/10/2018	1255	75.0-75.5	/	S	1	U	NO	X										J. Donovan/Ramboll
	PT-RIDB32-85.0-85.5	10/10/2018	1310	85.0-85.5	/	S	1	U	NO	X										84.5-85.0
	PT-RIDB32-96.2-96.7	10/10/2018	1335	96.2-96.7	/	S	1	U	NO	X										
	PT-RIDB32-104.5-105.0	10/10/2018	1350	104.5-105.0	/	S	1	U	NO	X										
	PT-RIDB32-118.6-119.1	10/10/2018	1420	118.6-119.1	/	S	1	U	NO	X										
	PT-RIDB32-136.0-136.6	10/10/2018	1450	136.0-136.6	/	S	1	U	NO	X										
	PT-RIDB32-149.5-150.0	10/10/2018	1505	149.5-150.0	/	S	1	U	NO	X										
	PT-RIDB33-14.5-15.0	10/11/2018	1150	14.5-15.0	/	S	2	U	NO	X										
	PT-RIDB33-24.5-25.0	10/11/2018	1215	25.0-25.5	/	S	1	U	NO	X										28.0-25.5
	PT-RIDB33-34.5-35.0	10/11/2018	1225	34.5-35.0	/	S	1	U	NO	X										
	PT-RIDB33-44.5-45.0	10/11/2018	1310	45.0-45.5	/	S	1	U	NO	X										45.0-45.5
	PT-RIDB33-55.0-55.5	10/11/2018	1335	55.0-55.5	/	S	1	U	NO	X										
	PT-RIDB33-65.0-65.5	10/11/2018	1345	64.5-65.0	/	S	1	U	NO	X										64.5-65.0
	PT-RIDB33-75.0-75.5	10/11/2018	1400	75.0-75.4	/	S	1	U	NO	X										75.0-75.4
TOTAL																				

3 coolers

RELINQUISHED BY: G. Miclette (FedEx) <i>G. Miclette</i>	TIME/DATE: 10/16/2018 <i>1400</i>	RECEIVED BY COMPANY: <i>Tracey Bishop - Core Lab</i>	TIME/DATE: <i>10/22/18</i>	TURNAROUND TIME (CIRCLE ONE)	SAME DAY	72 HOURS
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY COMPANY:	TIME/DATE:		24 HOURS	5 DAYS
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY COMPANY:	TIME/DATE:	SAMPLE INTEGRITY INTACT Y N TEMP _____	48 HOURS	NORMAL
RELINQUISHED BY:	TIME/DATE:	RECEIVED BY COMPANY:	TIME/DATE:		SAMPLE INTEGRITY INTACT Y N	

SWBU Office Locations: 5 Park Plaza, Suite 500, Irvine, CA 92614 +1 949 261 5151 +1 949 261 6202
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H = HCL; N = HNO; S = H2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS



Petroleum Services Division
3437 Landco Dr.
Bakersfield, California 93308
Tel: 661-325-5657
Fax: 661-325-5808
www.corelab.com

April 11, 2019

Jessica Donovan
Ramboll US Corporation
2200 Powell Street, Suite 700
Emeryville, CA 94608

Subject: Petrophysical Properties
File No.: 1804628

Dear Ms. Donovan:

Enclosed are final data for the samples submitted to our laboratory from project NERT AP-5 Pond in Henderson, Nevada.

Grain size analysis, Atterberg Limits, Moisture Content, Density, Porosity, Hydraulic Conductivity, and TOC were performed on requested samples where there was suitable recovery. Appropriate ASTM, EPA or API methodologies were used for this project and SOP's are available on request. The samples for this project are currently in storage and will be retained for thirty days past completion of testing at no charge. At the end of thirty days, the samples will be disposed. You may contact me regarding continued storage, disposal, or return of the samples.

Thank you for this opportunity to be of service to Ramboll US Corporation. Please do not hesitate to contact us at (661-325-5657) if you have any questions regarding these results or if we can be of any additional service.

Sincerely,
Core Laboratories

A handwritten signature in blue ink that reads "Allison Burich".

Allison Burich
Core Analyst

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, expressed or implied, as to the productivity, proper operations or profitability, however, of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.



Physical Properties Data

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1904628

Project Name : NERT AP-5 Pond
 Project Number: 169001 1200-026 (Task M01)

Sample ID.	Depth ft.	METHODS: Sample ¹ Orientation	API RP40 ASTM D2216		API RP40 ASTM D5550	API RP 40 ASTM D425M	
			Mositure Content		Density	Porosity ²	
			% weight	cm ³ /cm ³	Dry Bulk g/cm ³	Total %Vb ⁴	Effective ³ %Vb ⁴
PT-RIDB34-35.5-36.0	35.5-36.0	H	13.6	0.222	1.63	38.3	17.1
PT-RIDB35-28.5-29.0	28.5-29.0	H	60.4	0.602	1.00	62.6	9.80
PT-RIDB35-36.0-36.5	36.0-36.5	H	55.7	0.589	1.06	60.5	7.83
PT-RIDB35-86.0-86.5	86.0-86.5	V	69.6	0.636	0.914	65.7	14.4
PT-RIDB35-106.0-106.5	106.0-106.5	V	72.6	0.647	0.891	66.4	9.71
PT-RIDB35-135.0-135.5	135.0-135.5	V	90.1	0.677	0.752	71.4	17.2
PT-RIDB36-24.5-25.0	24.5-25.0	H	45.8	0.526	1.15	56.7	6.62



PERMEABILITY DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1904628

Project Name : NERT AP-5 Pond
 Project Number: 169001 1200-026 (Task M01)

METHODS: API RP 40; ASTM D5084; EPA 9100

Sample ID.	Depth, ft.	Sample Orientation ¹	50PSI Net Confinig Stress	
			Effective ² Permeability to Water, millidarcy	Saturated Hydraulic Conductivity, ² cm/s
PT-RIDB35-86.0-86.5	86.0-86.5	V	0.126	1.41E-07
PT-RIDB35-106.0-106.5	106.0-106.5	V	0.015	1.61E-08
PT-RIDB35-135.0-135.5	135.0-135.5	V	0.156	1.63E-07

(1) Sample Orientation: H = horizontal; V = vertical

(2) Permeability to water and hydraulic conductivity measured at saturated conditions



TOC & FOC

Petroleum Services

Ramboll US Corporation

Core Lab File No: 1904628

Project Name : NERT AP-5 Pond
 Project Number: 169001 1200-026 (Task M01)

Walkley-Black

Sample ID.	Depth ft.	Total Organic Carbon mg/kg	Fractional Organic Carbon g/g
PT-RIDB34-24.0-24.5	24.0-24.5	3000	3.00E-03
PT-RIDB34-25.3-25.8	25.3-25.8	2300	2.30E-03
PT-RIDB34-35.5-36.0	35.5-36.0	2100	2.10E-03
PT-RIDB34-58.0-58.5	58.0-58.5	2500	2.50E-03
PT-RIDB35-27.0-27.5	27.0-27.5	2100	2.10E-03
PT-RIDB35-28.5-29.0	28.5-29.0	3800	3.80E-03
PT-RIDB35-36.0-36.5	36.0-36.5	2000	2.00E-03
PT-RIDB35-43.2-43.7	43.2-43.7	1100	1.10E-03
PT-RIDB35-63.0-63.5	63.0-63.5	3400	3.40E-03
PT-RIDB35-86.0-86.5	86.0-86.5	2300	2.30E-03
PT-RIDB35-106.0-106.5	106.0-106.5	2200	2.20E-03
PT-RIDB35-135.0-135.5	135.0-135.5	6300	6.30E-03
PT-RIDB35-149.5-150.0	149.5-150.0	2100	2.10E-03
PT-RIDB36-24.5-25.0	24.5-25.0	2100	2.10E-03
PT-RIDB36-25.3-25.8	25.3-25.8	1400	1.40E-03
PT-RIDB36-68.0-68.5	68.0-68.5	2100	2.10E-03
PT-RIDB36-74.5-75.0	74.5-75.0	1900	1.90E-03



ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1804628

Project Name : NERT AP-5 Pond
 Project Number: 169001 1200-026 (Task M01)

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI			
PT-RIDB34-24.0-24.5	24.0-24.5	35	27	8	ML	Silt	Silt Loam
PT-RIDB34-25.3-25.8	25.3-25.8	37	29	8	ML	Silt	Silt Loam
PT-RIDB34-35.5-36.0	35.5-36.0	23	21	2	ML	Silt with Sand	Silt Loam
PT-RIDB34-58.0-58.5	58.0-58.5	81	34	47	CH	Fat Clay	Silt Loam
PT-RIDB35-27.0-27.5	27.0-27.5	50	34	16	MH	Elastic silt	Silt Loam
PT-RIDB35-28.5-29.0	28.5-29.0	57	39	18	MH	Elastic Silt	Silt Loam
PT-RIDB35-36.0-36.5	36.0-36.5	73	31	42	CH	Fat Clay	Silt Loam
PT-RIDB35-43.2-43.7	43.2-43.7	--	--	--	NP	SM: Silty Sand	Sandy Loam
PT-RIDB35-63.0-63.5	63.0-63.5	87	36	51	CH	Fat Clay	Silt Loam
PT-RIDB35-86.0-86.5	86.0-86.5	91	31	60	CH	Fat Clay	Silt Loam
PT-RIDB35-106.0-106.5	106.0-106.5	114	33	81	CH	Fat Clay	Silt Loam
PT-RIDB35-135.0-135.5	135.0-135.5	104	39	65	CH	Fat Clay	Silt Loam
PT-RIDB35-149.5-150.0	149.5-150.0	83	27	56	CH	Fat Clay	Silt Loam
PT-RIDB36-24.5-25.0	24.5-25.0	32	26	6	ML	Silt	Silty Clay Loam
PT-RIDB36-25.3-25.8	25.3-25.8	47	30	17	ML	Silt	Silt Loam



ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Ramboll US Corporation

Core Lab File No: 1804628

Project Name : NERT AP-5 Pond
 Project Number: 169001 1200-026 (Task M01)

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
		Liquid Limit LL	Plastic Limit PL	Plasticity Index PI			
PT-RIDB36-68.0-68.5	68.0-68.5	74	36	38	MH	Elastic Silt	Silt Loam
PT-RIDB36-74.5-75.0	74.5-75.0	59	48	11	MH	Elastic Silt	Silt Loam

USCS: Unified Soil Classification System
 USDA: US Department of Agriculture
 SCS: Soil Conservation Service

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.
 (2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: Nert AP-5 Pond
Project No.: 169001 1200-026

CL File No.: 1804628
Date: 4/1/2019

Sample ID	Grain Size Description** (Mean from Folk)	Median Grain Size, mm	Component Percentages									
			Gravel	Sand Size					Silt	Clay	Silt & Clay	
				VCoarse	Coarse	Medium	Fine	VFine				
PT-RIDB34-24.0-24.5	Silt	0.0131	4.00	0.00	0.00	0.00	0.00	0.00	74.14	21.85	96.00	
PT-RIDB34-25.3-25.8	Silt	0.0214	0.00	0.00	0.00	0.00	0.00	12.57	72.36	15.07	87.43	
PT-RIDB34-35.5-36.0	Silt	0.0133	17.67	0.00	0.00	0.00	0.00	0.00	59.07	23.26	82.33	
PT-RIDB34-58.0-58.5	Silt	0.0150	0.64	0.00	0.00	0.00	0.00	4.48	79.82	15.05	94.87	
PT-RIDB35-27.0-27.5	Silt	0.0105	0.00	0.00	0.00	0.00	0.00	0.00	75.86	24.14	100.00	
PT-RIDB35-28.5-29.0	Silt	0.0117	0.00	0.00	0.00	0.00	0.00	0.00	79.61	20.39	100.00	
PT-RIDB35-36.0-36.5	Silt	0.0159	1.29	0.00	0.00	0.00	0.00	8.00	72.93	17.78	90.71	
PT-RIDB35-43.2-43.7	Very Fine Grain Sand	0.0908	0.77	0.00	3.30	18.47	18.00	16.79	34.91	7.76	42.66	
PT-RIDB35-63.0-63.5	Silt	0.0112	0.00	0.00	0.00	0.00	0.00	0.00	78.98	21.02	100.00	
PT-RIDB35-86.0-86.5	Silt	0.0160	0.00	0.00	0.00	0.00	0.00	0.00	86.31	13.69	100.00	
PT-RIDB35-106.0-106.5	Silt	0.0166	0.00	0.00	0.00	0.00	0.00	3.26	81.52	15.22	96.74	
PT-RIDB35-135.0-135.5	Silt	0.0149	0.00	0.00	0.00	0.00	0.00	0.08	83.12	16.79	99.92	
PT-RIDB35-149.5-150.0	Silt	0.0177	0.00	0.00	0.00	0.00	0.00	0.14	83.87	16.00	99.86	
PT-RIDB36-24.5-25.0	Silt	0.0104	2.49	0.00	0.00	0.00	0.00	0.00	69.78	27.73	97.51	
PT-RIDB36-25.3-25.8	Silt	0.0137	1.14	0.00	0.00	0.00	0.00	0.10	79.58	19.18	98.76	

**Wentworth Scale



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Ramboll US Corporation
Project Name: Nert AP-5 Pond
Project No.: 169001 1200-026

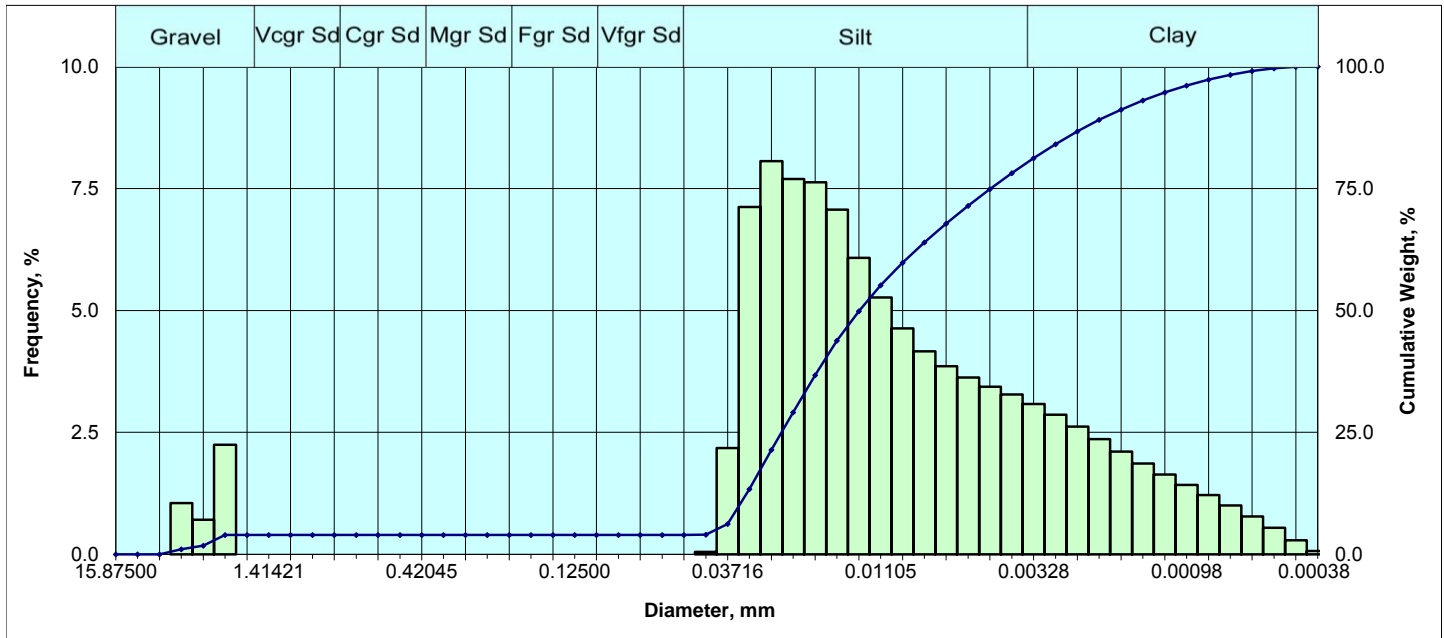
CL File No.: 1804628
Date: 4/1/2019

Sample ID	Grain Size Description** (Mean from Folk)	Median Grain Size, mm	Component Percentages									
			Gravel	Sand Size					Silt	Clay	Silt & Clay	
				VCoarse	Coarse	Medium	Fine	VFine				
PT-RIDB36-68.0-68.5	Silt	0.0103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.15	24.85	100.00
PT-RIDB36-74.5-75.0	Silt	0.0199	0.00	0.00	0.00	0.00	0.00	0.17		85.83	14.00	99.83

**Wentworth Scale



Sieve and Laser Particle Size Analysis



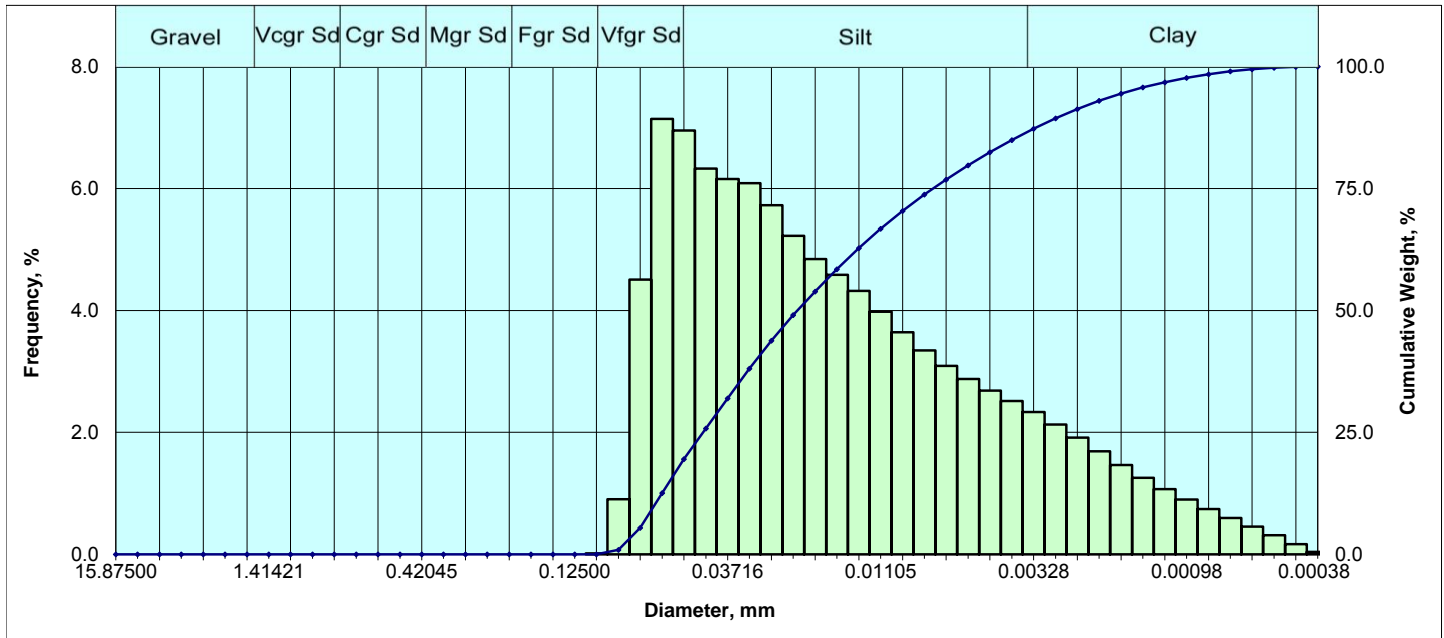
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	1.048	1.05
	8	0.092913	2.36000	-1.25	0.711	1.76
V Crse Sand	10	0.078740	2.00000	-1.00	2.246	4.00
	12	0.066212	1.68179	-0.75	0.000	4.00
	14	0.055678	1.41421	-0.50	0.000	4.00
	16	0.046819	1.18921	-0.25	0.000	4.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	4.00
	20	0.033108	0.84090	0.25	0.000	4.00
	25	0.027839	0.70711	0.50	0.000	4.00
Medium Sand	30	0.023410	0.59460	0.75	0.000	4.00
	35	0.019685	0.50000	1.00	0.000	4.00
	40	0.016553	0.42045	1.25	0.000	4.00
	45	0.013919	0.35355	1.50	0.000	4.00
Fine Sand	50	0.011705	0.29730	1.75	0.000	4.00
	60	0.009843	0.25000	2.00	0.000	4.00
	70	0.008277	0.21022	2.25	0.000	4.00
	80	0.006960	0.17678	2.50	0.000	4.00
V. Fine Sand	100	0.005852	0.14865	2.75	0.000	4.00
	120	0.004921	0.12500	3.00	0.000	4.00
	140	0.004138	0.10511	3.25	0.000	4.00
	170	0.003480	0.08839	3.50	0.000	4.00
Silt	200	0.002926	0.07433	3.75	0.000	4.00
	230	0.002461	0.06250	4.00	0.000	4.00
	270	0.002069	0.05256	4.25	0.000	4.00
	325	0.001740	0.04419	4.50	0.052	4.06
	400	0.001463	0.03716	4.75	2.182	6.24
	450	0.001230	0.03125	5.00	7.120	13.36
	500	0.001035	0.02628	5.25	8.062	21.42
	635	0.000870	0.02210	5.50	7.697	29.12
		0.000732	0.01858	5.75	7.629	36.75
		0.000615	0.01562	6.00	7.066	43.81
Clay		0.000517	0.01314	6.25	6.076	49.89
		0.000435	0.01105	6.50	5.266	55.15
		0.000366	0.00929	6.75	4.633	59.79
		0.000308	0.00781	7.00	4.163	63.95
		0.000259	0.00657	7.25	3.859	67.81
		0.000217	0.00552	7.50	3.627	71.44
		0.000183	0.00465	7.75	3.434	74.87
		0.000154	0.00391	8.00	3.276	78.15
		0.000129	0.00328	8.25	3.081	81.23
		0.000109	0.00276	8.50	2.863	84.09
		0.000091	0.00232	8.75	2.619	86.71
		0.000077	0.00195	9.00	2.360	89.07
		0.000065	0.00164	9.25	2.105	91.17
		0.000054	0.00138	9.50	1.861	93.03
		0.000046	0.00116	9.75	1.639	94.67
	0.000038	0.00098	10.00	1.425	96.10	
	0.000032	0.00082	10.25	1.218	97.32	
	0.000027	0.00069	10.50	1.004	98.32	
	0.000023	0.00058	10.75	0.779	99.10	
	0.000019	0.00049	11.00	0.542	99.64	
	0.000016	0.00041	11.25	0.289	99.93	
	0.000015	0.00038	11.50	0.070	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0131	0.0131	0.0131	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0145	0.0091	0.0103	
Sorting	Poor			
	2.296	1.707	1.642	
Skewness	Strongly fine skewed			
	0.809	0.556	0.337	
Kurtosis	Platykurtic			
	0.306	0.523	0.889	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
4.00	0.00	74.14	21.85	96.00
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0016	0.0412	4.6028	
10	0.0013	0.0340	4.8767	
16	0.0012	0.0296	5.0772	
25	0.0010	0.0243	5.3609	
40	0.0007	0.0172	5.8598	
50	0.0005	0.0131	6.2549	
70	0.0002	0.0059	7.3958	
75	0.0002	0.0046	7.7591	
84	0.0001	0.0028	8.4915	
90	0.0001	0.0018	9.1053	
95	0.0000	0.0011	9.8036	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



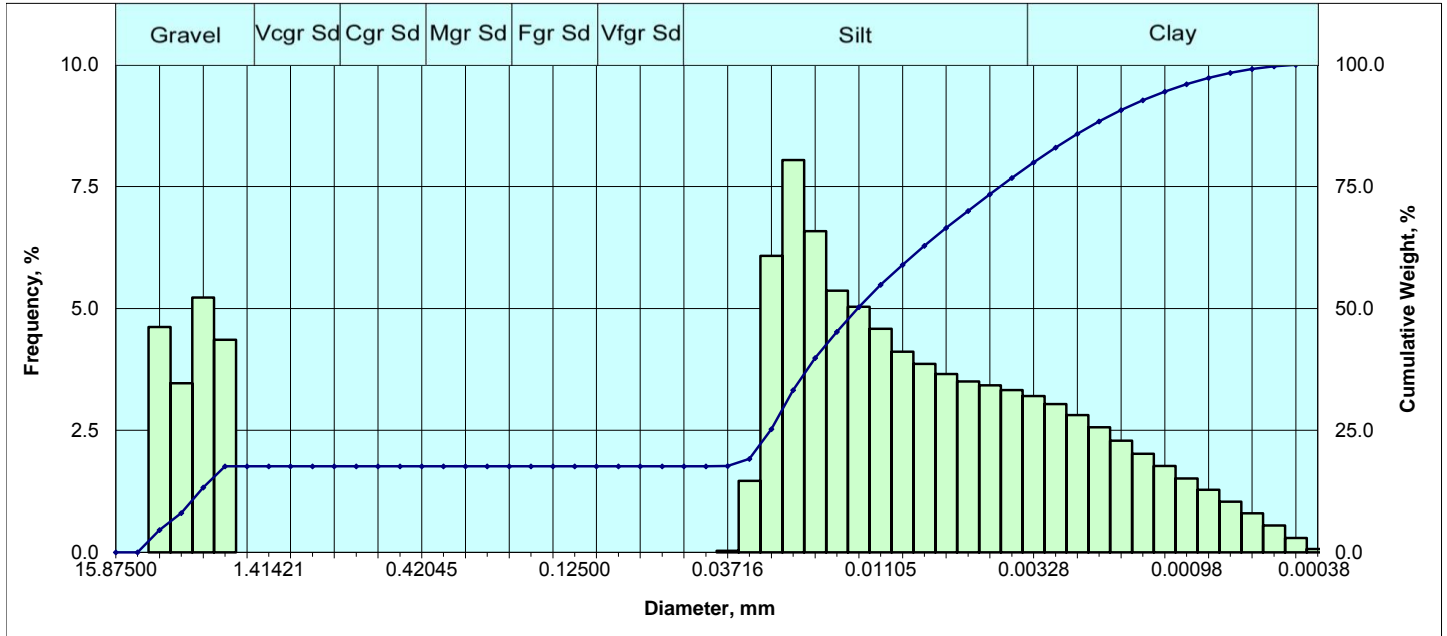
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.018	0.02
	170	0.003480	0.08839	3.50	0.903	0.92
	200	0.002926	0.07433	3.75	4.509	5.43
Silt	230	0.002461	0.06250	4.00	7.141	12.57
	270	0.002069	0.05256	4.25	6.953	19.52
	325	0.001740	0.04419	4.50	6.324	25.85
	400	0.001463	0.03716	4.75	6.158	32.01
	450	0.001230	0.03125	5.00	6.087	38.09
	500	0.001035	0.02628	5.25	5.727	43.82
	635	0.000870	0.02210	5.50	5.226	49.05
		0.000732	0.01858	5.75	4.844	53.89
		0.000615	0.01562	6.00	4.586	58.48
		0.000517	0.01314	6.25	4.319	62.79
		0.000435	0.01105	6.50	3.981	66.78
		0.000366	0.00929	6.75	3.643	70.42
		0.000308	0.00781	7.00	3.342	73.76
	0.000259	0.00657	7.25	3.090	76.85	
	0.000217	0.00552	7.50	2.876	79.73	
	0.000183	0.00465	7.75	2.687	82.41	
	0.000154	0.00391	8.00	2.517	84.93	
Clay		0.000129	0.00328	8.25	2.332	87.26
		0.000109	0.00276	8.50	2.130	89.39
		0.000091	0.00232	8.75	1.913	91.31
		0.000077	0.00195	9.00	1.688	92.99
		0.000065	0.00164	9.25	1.466	94.46
		0.000054	0.00138	9.50	1.258	95.72
		0.000046	0.00116	9.75	1.069	96.79
		0.000038	0.00098	10.00	0.898	97.68
		0.000032	0.00082	10.25	0.745	98.43
		0.000027	0.00069	10.50	0.598	99.03
		0.000023	0.00058	10.75	0.455	99.48
		0.000019	0.00049	11.00	0.313	99.79
		0.000016	0.00041	11.25	0.165	99.96
		0.000015	0.00038	11.50	0.040	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0214	0.0214	0.0214	
Mean	Silt sized			
(in)	0.0010	0.0006	0.0007	
(mm)	0.0263	0.0155	0.0173	
Sorting	Poor			
	2.489	1.892	1.799	
Skewness	Finely skewed			
	0.851	0.524	0.299	
Kurtosis	Platykurtic			
	0.296	0.487	0.877	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	12.57	72.36	15.07	87.43
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0030	0.0757	3.7243	
10	0.0026	0.0668	3.9050	
16	0.0023	0.0576	4.1179	
25	0.0018	0.0453	4.4639	
40	0.0012	0.0296	5.0786	
50	0.0008	0.0214	5.5460	
70	0.0004	0.0095	6.7190	
75	0.0003	0.0073	7.0952	
84	0.0002	0.0042	7.9025	
90	0.0001	0.0026	8.5748	
95	0.0001	0.0015	9.3523	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



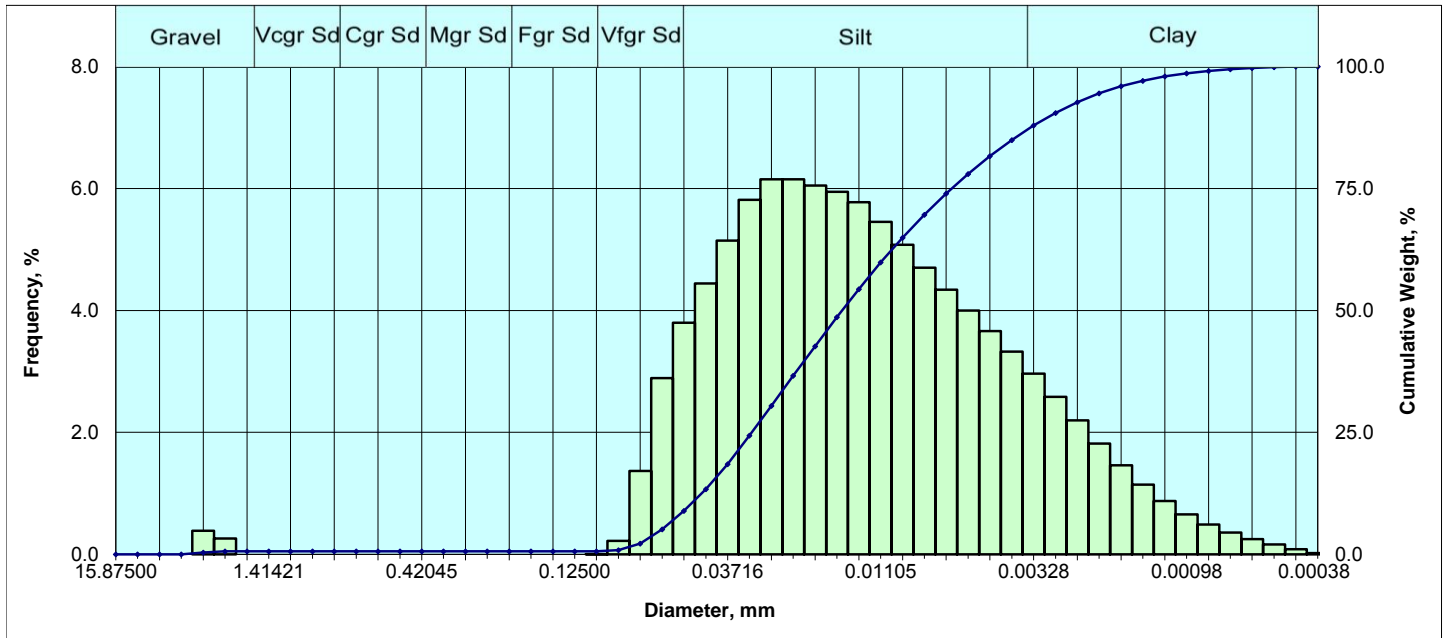
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	4.620	4.62
	6	0.131890	3.35000	-1.75	3.465	8.09
	8	0.092913	2.36000	-1.25	5.227	13.31
V Crse Sand	10	0.078740	2.00000	-1.00	4.360	17.67
	12	0.066212	1.68179	-0.75	0.000	17.67
	14	0.055678	1.41421	-0.50	0.000	17.67
	16	0.046819	1.18921	-0.25	0.000	17.67
Coarse Sand	18	0.039370	1.00000	0.00	0.000	17.67
	20	0.033108	0.84090	0.25	0.000	17.67
	25	0.027839	0.70711	0.50	0.000	17.67
Medium Sand	30	0.023410	0.59460	0.75	0.000	17.67
	35	0.019685	0.50000	1.00	0.000	17.67
	40	0.016553	0.42045	1.25	0.000	17.67
	45	0.013919	0.35355	1.50	0.000	17.67
Fine Sand	50	0.011705	0.29730	1.75	0.000	17.67
	60	0.009843	0.25000	2.00	0.000	17.67
	70	0.008277	0.21022	2.25	0.000	17.67
	80	0.006960	0.17678	2.50	0.000	17.67
V. Fine Sand	100	0.005852	0.14865	2.75	0.000	17.67
	120	0.004921	0.12500	3.00	0.000	17.67
	140	0.004138	0.10511	3.25	0.000	17.67
	170	0.003480	0.08839	3.50	0.000	17.67
Silt	200	0.002926	0.07433	3.75	0.000	17.67
	230	0.002461	0.06250	4.00	0.000	17.67
	270	0.002069	0.05256	4.25	0.000	17.67
	325	0.001740	0.04419	4.50	0.000	17.67
	400	0.001463	0.03716	4.75	0.032	17.70
	450	0.001230	0.03125	5.00	1.466	19.17
	500	0.001035	0.02628	5.25	6.079	25.25
	635	0.000870	0.02210	5.50	8.045	33.30
		0.000732	0.01858	5.75	6.585	39.88
		0.000615	0.01562	6.00	5.364	45.24
Clay		0.000517	0.01314	6.25	5.033	50.28
		0.000435	0.01105	6.50	4.583	54.86
		0.000366	0.00929	6.75	4.111	58.97
		0.000308	0.00781	7.00	3.861	62.83
		0.000259	0.00657	7.25	3.654	66.49
		0.000217	0.00552	7.50	3.506	69.99
		0.000183	0.00465	7.75	3.423	73.42
		0.000154	0.00391	8.00	3.326	76.74
		0.000129	0.00328	8.25	3.207	79.95
		0.000109	0.00276	8.50	3.038	82.99
		0.000091	0.00232	8.75	2.813	85.80
		0.000077	0.00195	9.00	2.566	88.37
		0.000065	0.00164	9.25	2.292	90.66
		0.000054	0.00138	9.50	2.021	92.68
		0.000046	0.00116	9.75	1.768	94.45
	0.000038	0.00098	10.00	1.515	95.96	
	0.000032	0.00082	10.25	1.281	97.24	
	0.000027	0.00069	10.50	1.041	98.28	
	0.000023	0.00058	10.75	0.799	99.08	
	0.000019	0.00049	11.00	0.553	99.64	
	0.000016	0.00041	11.25	0.292	99.93	
	0.000015	0.00038	11.50	0.072	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0133	0.0133	0.0133	
Mean	Silt sized			
(in)	0.0006	0.0029	0.0017	
(mm)	0.0154	0.0746	0.0420	
Sorting	Extremely poor			
	2.484	4.841	4.244	
Skewness	Strongly coarse skewed			
	0.803	-0.499	-0.458	
Kurtosis	Very leptokurtic			
	0.004	0.243	1.879	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
17.67	0.00	59.07	23.26	82.33
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.1810	4.5966	-2.2006	
10	0.1176	2.9874	-1.5789	
16	0.0842	2.1381	-1.0963	
25	0.0010	0.0265	5.2388	
40	0.0007	0.0185	5.7551	
50	0.0005	0.0133	6.2350	
70	0.0002	0.0055	7.5005	
75	0.0002	0.0043	7.8637	
84	0.0001	0.0026	8.5852	
90	0.0001	0.0017	9.1737	
95	0.0000	0.0011	9.8363	

**All Grain Sizes Classified Using Wentworth Scale



Sieve and Laser Particle Size Analysis



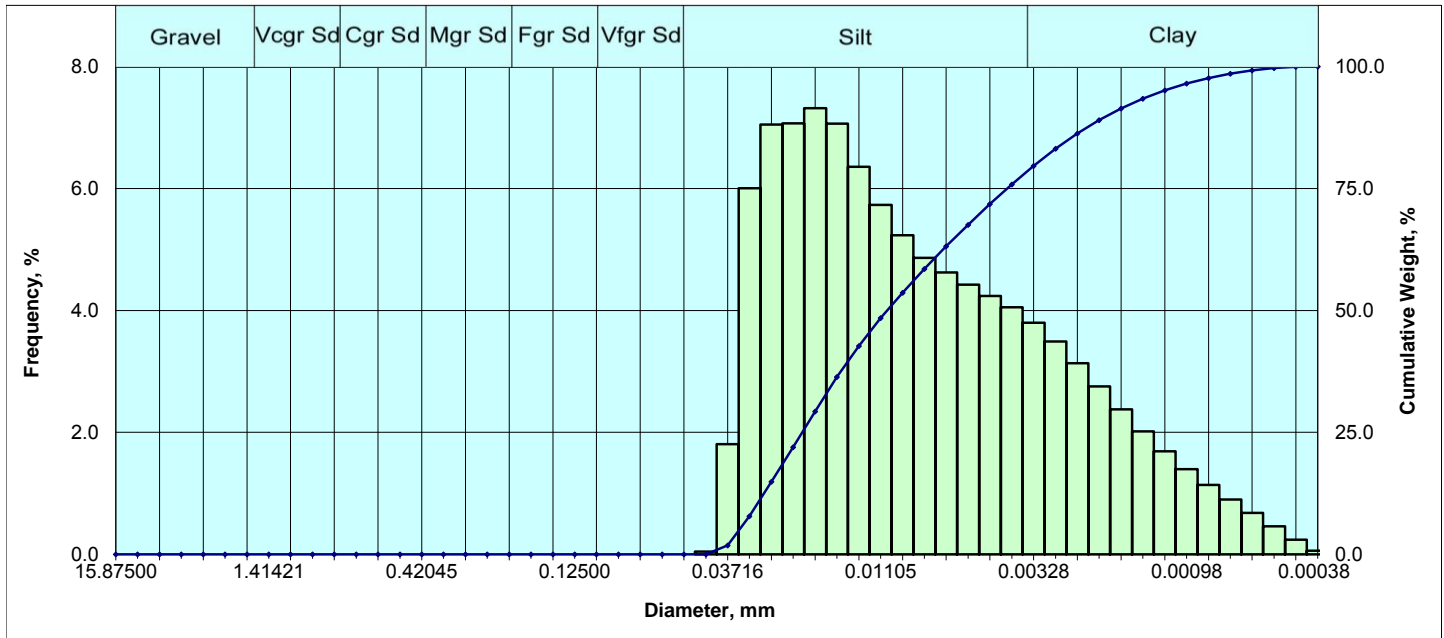
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.387	0.39
V Crse Sand	10	0.078740	2.00000	-1.00	0.258	0.64
	12	0.066212	1.68179	-0.75	0.000	0.64
	14	0.055678	1.41421	-0.50	0.000	0.64
	16	0.046819	1.18921	-0.25	0.000	0.64
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.64
	20	0.033108	0.84090	0.25	0.000	0.64
	25	0.027839	0.70711	0.50	0.000	0.64
Medium Sand	30	0.023410	0.59460	0.75	0.000	0.64
	35	0.019685	0.50000	1.00	0.000	0.64
	40	0.016553	0.42045	1.25	0.000	0.64
	45	0.013919	0.35355	1.50	0.000	0.64
Fine Sand	50	0.011705	0.29730	1.75	0.000	0.64
	60	0.009843	0.25000	2.00	0.000	0.64
	70	0.008277	0.21022	2.25	0.000	0.64
V. Fine Sand	80	0.006960	0.17678	2.50	0.000	0.64
	100	0.005852	0.14865	2.75	0.000	0.64
	120	0.004921	0.12500	3.00	0.000	0.64
	140	0.004138	0.10511	3.25	0.003	0.65
Silt	170	0.003480	0.08839	3.50	0.219	0.87
	200	0.002926	0.07433	3.75	1.369	2.24
	230	0.002461	0.06250	4.00	2.891	5.13
	270	0.002069	0.05256	4.25	3.800	8.93
	325	0.001740	0.04419	4.50	4.444	13.37
Clay	400	0.001463	0.03716	4.75	5.146	18.52
	450	0.001230	0.03125	5.00	5.814	24.33
	500	0.001035	0.02628	5.25	6.150	30.48
	635	0.000870	0.02210	5.50	6.149	36.63
		0.000732	0.01858	5.75	6.046	42.68
		0.000615	0.01562	6.00	5.945	48.62
		0.000517	0.01314	6.25	5.775	54.40
		0.000435	0.01105	6.50	5.452	59.85
		0.000366	0.00929	6.75	5.075	64.92
		0.000308	0.00781	7.00	4.700	69.62
		0.000259	0.00657	7.25	4.341	73.97
		0.000217	0.00552	7.50	3.998	77.96
		0.000183	0.00465	7.75	3.660	81.62
		0.000154	0.00391	8.00	3.323	84.95
		0.000129	0.00328	8.25	2.962	87.91
	0.000109	0.00276	8.50	2.582	90.49	
	0.000091	0.00232	8.75	2.195	92.69	
	0.000077	0.00195	9.00	1.816	94.50	
	0.000065	0.00164	9.25	1.460	95.96	
	0.000054	0.00138	9.50	1.144	97.11	
	0.000046	0.00116	9.75	0.873	97.98	
	0.000038	0.00098	10.00	0.656	98.63	
	0.000032	0.00082	10.25	0.488	99.12	
	0.000027	0.00069	10.50	0.357	99.48	
	0.000023	0.00058	10.75	0.252	99.73	
	0.000019	0.00049	11.00	0.163	99.90	
	0.000016	0.00041	11.25	0.084	99.98	
	0.000015	0.00038	11.50	0.020	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0150	0.0150	0.0150	
Mean	Silt sized			
(in)	0.0007	0.0005	0.0005	
(mm)	0.0185	0.0129	0.0136	
Sorting	Poor			
	2.208	1.651	1.597	
Skewness	Finely skewed			
	0.925	0.290	0.160	
Kurtosis	Mesokurtic			
	0.256	0.542	0.913	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.64	4.48	79.82	15.05	94.87
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0025	0.0630	3.9880	
10	0.0020	0.0505	4.3065	
16	0.0016	0.0406	4.6223	
25	0.0012	0.0307	5.0251	
40	0.0008	0.0201	5.6339	
50	0.0006	0.0150	6.0558	
70	0.0003	0.0077	7.0200	
75	0.0002	0.0063	7.3106	
84	0.0002	0.0041	7.9242	
90	0.0001	0.0029	8.4490	
95	0.0001	0.0018	9.0805	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



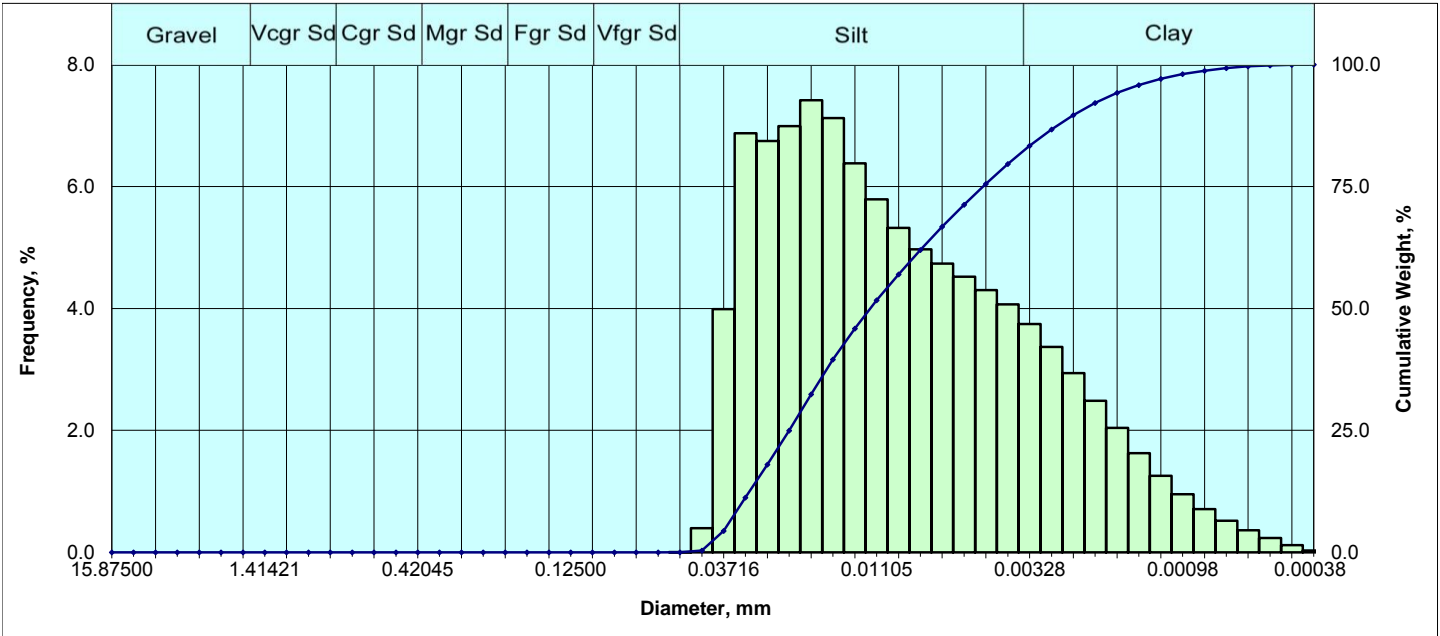
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
Medium Sand	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
Fine Sand	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
V. Fine Sand	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
Silt	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.000	0.00
	325	0.001740	0.04419	4.50	0.043	0.04
	400	0.001463	0.03716	4.75	1.808	1.85
	450	0.001230	0.03125	5.00	6.003	7.85
Clay	500	0.001035	0.02628	5.25	7.048	14.90
	635	0.000870	0.02210	5.50	7.067	21.97
		0.000732	0.01858	5.75	7.317	29.29
		0.000615	0.01562	6.00	7.063	36.35
		0.000517	0.01314	6.25	6.355	42.70
		0.000435	0.01105	6.50	5.729	48.43
		0.000366	0.00929	6.75	5.232	53.66
		0.000308	0.00781	7.00	4.863	58.53
		0.000259	0.00657	7.25	4.623	63.15
		0.000217	0.00552	7.50	4.425	67.58
		0.000183	0.00465	7.75	4.237	71.81
		0.000154	0.00391	8.00	4.053	75.86
		0.000129	0.00328	8.25	3.797	79.66
		0.000109	0.00276	8.50	3.490	83.15
		0.000091	0.00232	8.75	3.136	86.29
	0.000077	0.00195	9.00	2.756	89.04	
	0.000065	0.00164	9.25	2.377	91.42	
	0.000054	0.00138	9.50	2.016	93.44	
	0.000046	0.00116	9.75	1.688	95.12	
	0.000038	0.00098	10.00	1.395	96.52	
	0.000032	0.00082	10.25	1.138	97.66	
	0.000027	0.00069	10.50	0.902	98.56	
	0.000023	0.00058	10.75	0.678	99.24	
	0.000019	0.00049	11.00	0.461	99.70	
	0.000016	0.00041	11.25	0.243	99.94	
	0.000015	0.00038	11.50	0.059	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0105	0.0105	0.0105	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0004	
(mm)	0.0124	0.0082	0.0089	
Sorting	Poor			
	2.254	1.639	1.555	
Skewness	Finely skewed			
	0.870	0.447	0.259	
Kurtosis	Platykurtic			
	0.297	0.481	0.849	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	75.86	24.14	100.00
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0013	0.0341	4.8757	
10	0.0012	0.0297	5.0717	
16	0.0010	0.0256	5.2861	
25	0.0008	0.0206	5.5984	
40	0.0006	0.0142	6.1383	
50	0.0004	0.0105	6.5705	
70	0.0002	0.0050	7.6377	
75	0.0002	0.0041	7.9429	
84	0.0001	0.0026	8.5634	
90	0.0001	0.0018	9.0954	
95	0.0000	0.0012	9.7300	

**All Grain Sizes Classified Using Wentworth Scale



Sieve and Laser Particle Size Analysis



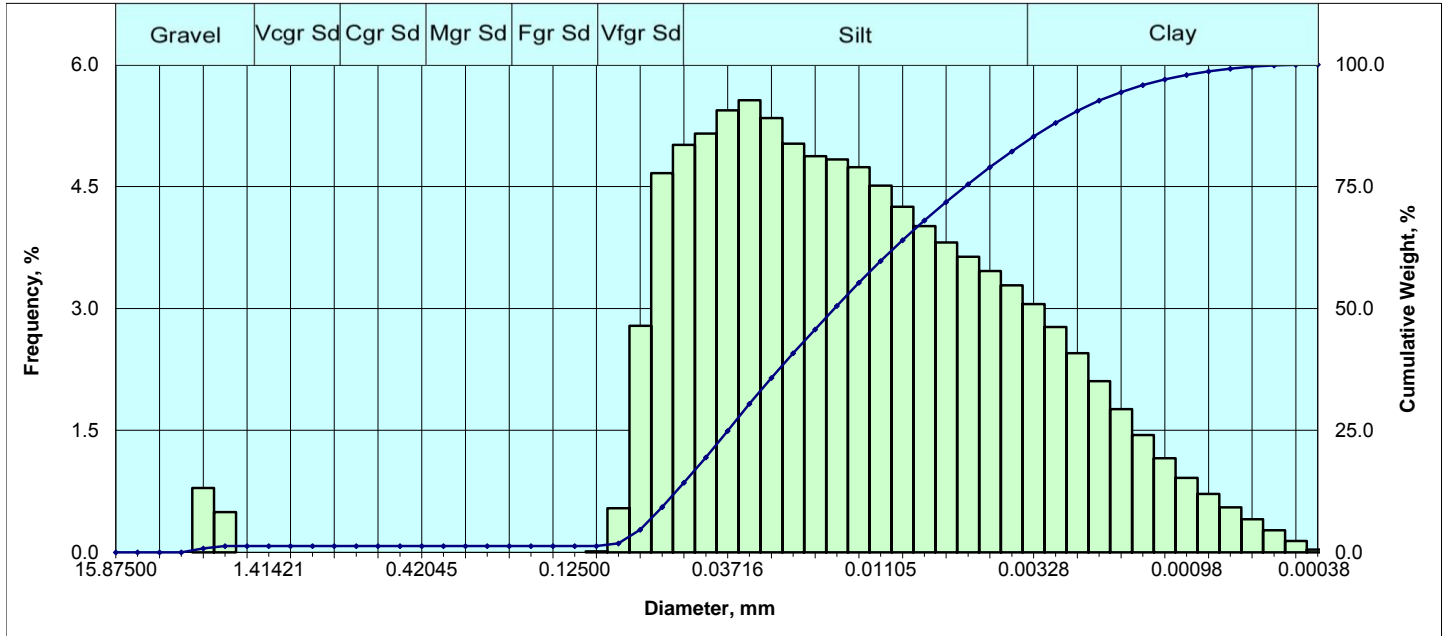
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
Medium Sand	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
Fine Sand	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
V. Fine Sand	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
Silt	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.001	0.00
	325	0.001740	0.04419	4.50	0.398	0.40
	400	0.001463	0.03716	4.75	3.990	4.39
	450	0.001230	0.03125	5.00	6.872	11.26
	500	0.001035	0.02628	5.25	6.746	18.01
	635	0.000870	0.02210	5.50	6.991	25.00
		0.000732	0.01858	5.75	7.413	32.41
		0.000615	0.01562	6.00	7.124	39.54
		0.000517	0.01314	6.25	6.380	45.92
		0.000435	0.01105	6.50	5.789	51.70
	0.000366	0.00929	6.75	5.319	57.02	
	0.000308	0.00781	7.00	4.970	61.99	
	0.000259	0.00657	7.25	4.736	66.73	
	0.000217	0.00552	7.50	4.520	71.25	
	0.000183	0.00465	7.75	4.300	75.55	
	0.000154	0.00391	8.00	4.065	79.61	
Clay		0.000129	0.00328	8.25	3.745	83.36
		0.000109	0.00276	8.50	3.368	86.73
		0.000091	0.00232	8.75	2.940	89.67
		0.000077	0.00195	9.00	2.486	92.15
		0.000065	0.00164	9.25	2.041	94.19
		0.000054	0.00138	9.50	1.624	95.82
		0.000046	0.00116	9.75	1.256	97.08
		0.000038	0.00098	10.00	0.951	98.03
		0.000032	0.00082	10.25	0.709	98.74
		0.000027	0.00069	10.50	0.518	99.25
		0.000023	0.00058	10.75	0.363	99.62
		0.000019	0.00049	11.00	0.234	99.85
		0.000016	0.00041	11.25	0.120	99.97
		0.000015	0.00038	11.50	0.029	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0117	0.0117	0.0117	
Mean	Silt sized			
(in)	0.0005	0.0004	0.0004	
(mm)	0.0134	0.0094	0.0101	
Sorting	Poor			
	2.155	1.562	1.477	
Skewness	Finely skewed			
	0.879	0.415	0.240	
Kurtosis	Platykurtic			
	0.288	0.472	0.851	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	79.61	20.39	100.00
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0014	0.0366	4.7705	
10	0.0013	0.0323	4.9508	
16	0.0011	0.0278	5.1710	
25	0.0009	0.0221	5.5001	
40	0.0006	0.0154	6.0168	
50	0.0005	0.0117	6.4218	
70	0.0002	0.0058	7.4264	
75	0.0002	0.0048	7.7156	
84	0.0001	0.0032	8.2943	
90	0.0001	0.0023	8.7810	
95	0.0001	0.0015	9.3685	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



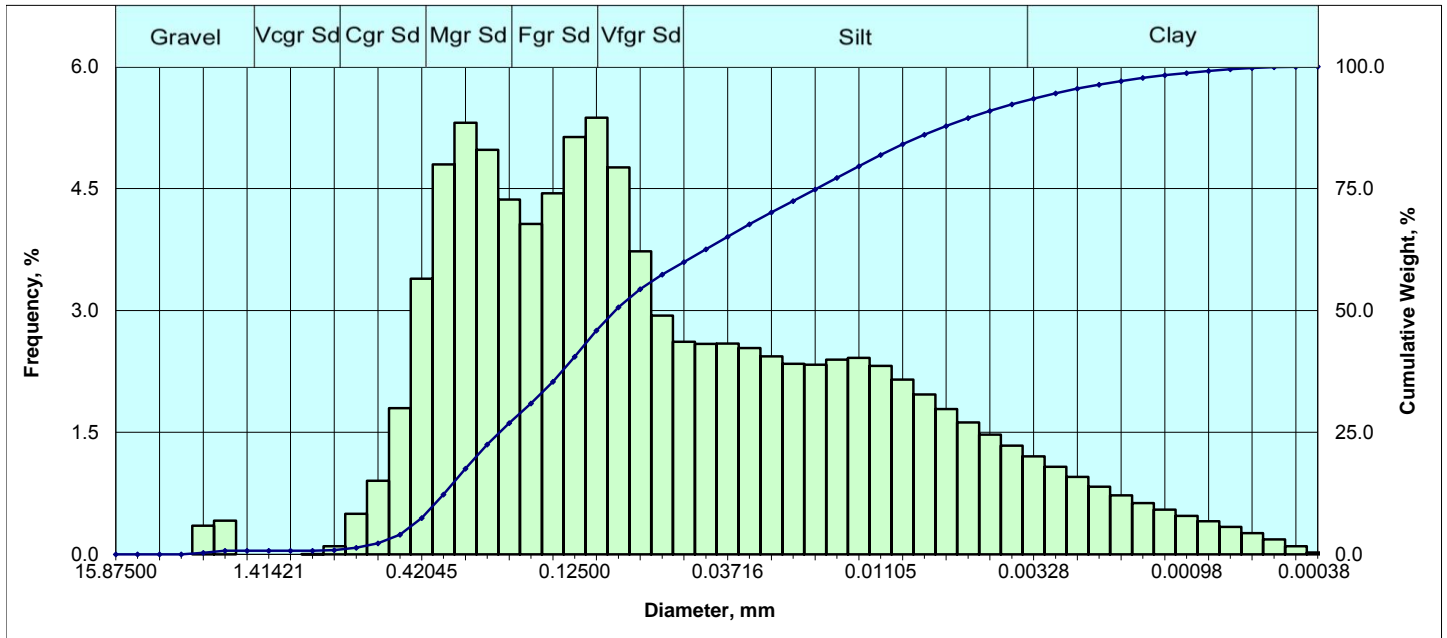
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.791	0.79
V Crse Sand	10	0.078740	2.00000	-1.00	0.495	1.29
	12	0.066212	1.68179	-0.75	0.000	1.29
	14	0.055678	1.41421	-0.50	0.000	1.29
	16	0.046819	1.18921	-0.25	0.000	1.29
Coarse Sand	18	0.039370	1.00000	0.00	0.000	1.29
	20	0.033108	0.84090	0.25	0.000	1.29
	25	0.027839	0.70711	0.50	0.000	1.29
Medium Sand	30	0.023410	0.59460	0.75	0.000	1.29
	35	0.019685	0.50000	1.00	0.000	1.29
	40	0.016553	0.42045	1.25	0.000	1.29
	45	0.013919	0.35355	1.50	0.000	1.29
Fine Sand	50	0.011705	0.29730	1.75	0.000	1.29
	60	0.009843	0.25000	2.00	0.000	1.29
	70	0.008277	0.21022	2.25	0.000	1.29
V. Fine Sand	80	0.006960	0.17678	2.50	0.000	1.29
	100	0.005852	0.14865	2.75	0.000	1.29
	120	0.004921	0.12500	3.00	0.000	1.29
	140	0.004138	0.10511	3.25	0.010	1.30
Silt	170	0.003480	0.08839	3.50	0.543	1.84
	200	0.002926	0.07433	3.75	2.786	4.62
	230	0.002461	0.06250	4.00	4.665	9.29
	270	0.002069	0.05256	4.25	5.011	14.30
	325	0.001740	0.04419	4.50	5.150	19.45
Clay	400	0.001463	0.03716	4.75	5.438	24.89
	450	0.001230	0.03125	5.00	5.562	30.45
	500	0.001035	0.02628	5.25	5.341	35.79
	635	0.000870	0.02210	5.50	5.026	40.82
		0.000732	0.01858	5.75	4.873	45.69
		0.000615	0.01562	6.00	4.833	50.52
		0.000517	0.01314	6.25	4.738	55.26
		0.000435	0.01105	6.50	4.510	59.77
		0.000366	0.00929	6.75	4.249	64.02
		0.000308	0.00781	7.00	4.012	68.03
		0.000259	0.00657	7.25	3.811	71.84
		0.000217	0.00552	7.50	3.635	75.48
		0.000183	0.00465	7.75	3.462	78.94
		0.000154	0.00391	8.00	3.283	82.22
	Clay		0.000129	0.00328	8.25	3.052
		0.000109	0.00276	8.50	2.770	88.05
		0.000091	0.00232	8.75	2.448	90.49
		0.000077	0.00195	9.00	2.104	92.60
		0.000065	0.00164	9.25	1.761	94.36
		0.000054	0.00138	9.50	1.441	95.80
		0.000046	0.00116	9.75	1.157	96.96
		0.000038	0.00098	10.00	0.916	97.87
		0.000032	0.00082	10.25	0.720	98.59
		0.000027	0.00069	10.50	0.552	99.15
		0.000023	0.00058	10.75	0.406	99.55
		0.000019	0.00049	11.00	0.272	99.82
		0.000016	0.00041	11.25	0.142	99.97
		0.000015	0.00038	11.50	0.035	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0159	0.0159	0.0159	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0006	
(mm)	0.0214	0.0133	0.0141	
Sorting	Poor			
	2.558	1.906	1.800	
Skewness	Finely skewed			
	0.908	0.310	0.175	
Kurtosis	Platykurtic			
	0.267	0.466	0.845	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
1.29	8.00	72.93	17.78	90.71
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0029	0.0734	3.7686	
10	0.0024	0.0611	4.0329	
16	0.0020	0.0498	4.3278	
25	0.0015	0.0370	4.7546	
40	0.0009	0.0228	5.4563	
50	0.0006	0.0159	5.9708	
70	0.0003	0.0072	7.1236	
75	0.0002	0.0057	7.4645	
84	0.0001	0.0035	8.1403	
90	0.0001	0.0024	8.6960	
95	0.0001	0.0015	9.3559	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



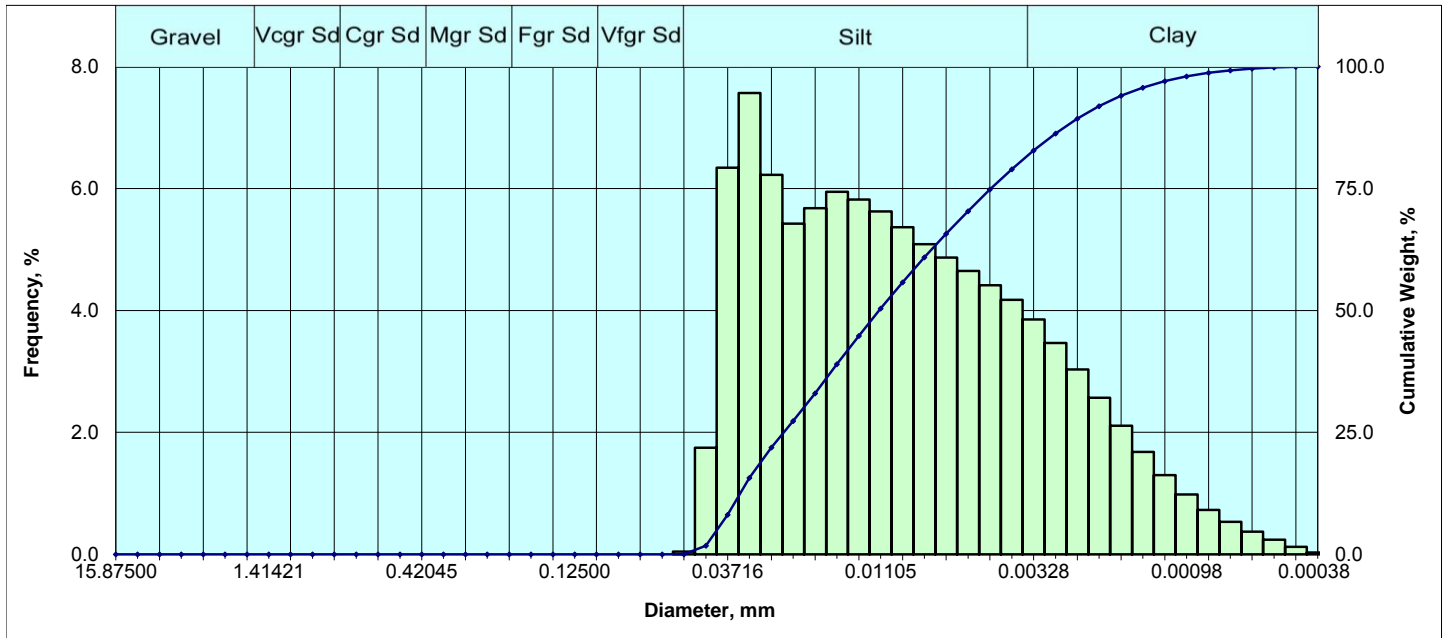
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.351	0.35
V Crse Sand	10	0.078740	2.00000	-1.00	0.415	0.77
	12	0.066212	1.68179	-0.75	0.000	0.77
	14	0.055678	1.41421	-0.50	0.000	0.77
	16	0.046819	1.18921	-0.25	0.000	0.77
Coarse Sand	18	0.039370	1.00000	0.00	0.002	0.77
	20	0.033108	0.84090	0.25	0.099	0.87
	25	0.027839	0.70711	0.50	0.499	1.37
	30	0.023410	0.59460	0.75	0.906	2.27
Medium Sand	35	0.019685	0.50000	1.00	1.797	4.07
	40	0.016553	0.42045	1.25	3.391	7.46
	45	0.013919	0.35355	1.50	4.797	12.26
	50	0.011705	0.29730	1.75	5.310	17.57
Fine Sand	60	0.009843	0.25000	2.00	4.976	22.54
	70	0.008277	0.21022	2.25	4.364	26.91
	80	0.006960	0.17678	2.50	4.064	30.97
	100	0.005852	0.14865	2.75	4.441	35.41
V. Fine Sand	120	0.004921	0.12500	3.00	5.134	40.55
	140	0.004138	0.10511	3.25	5.371	45.92
	170	0.003480	0.08839	3.50	4.759	50.68
	200	0.002926	0.07433	3.75	3.727	54.40
Silt	230	0.002461	0.06250	4.00	2.937	57.34
	270	0.002069	0.05256	4.25	2.614	59.95
	325	0.001740	0.04419	4.50	2.588	62.54
	400	0.001463	0.03716	4.75	2.591	65.13
	450	0.001230	0.03125	5.00	2.539	67.67
	500	0.001035	0.02628	5.25	2.436	70.11
	635	0.000870	0.02210	5.50	2.342	72.45
		0.000732	0.01858	5.75	2.333	74.78
		0.000615	0.01562	6.00	2.393	77.18
		0.000517	0.01314	6.25	2.419	79.59
		0.000435	0.01105	6.50	2.318	81.91
		0.000366	0.00929	6.75	2.149	84.06
		0.000308	0.00781	7.00	1.965	86.03
	0.000259	0.00657	7.25	1.787	87.81	
	0.000217	0.00552	7.50	1.622	89.44	
	0.000183	0.00465	7.75	1.472	90.91	
	0.000154	0.00391	8.00	1.336	92.24	
Clay		0.000129	0.00328	8.25	1.205	93.45
		0.000109	0.00276	8.50	1.076	94.53
		0.000091	0.00232	8.75	0.951	95.48
		0.000077	0.00195	9.00	0.833	96.31
		0.000065	0.00164	9.25	0.725	97.04
		0.000054	0.00138	9.50	0.630	97.67
		0.000046	0.00116	9.75	0.549	98.21
		0.000038	0.00098	10.00	0.475	98.69
		0.000032	0.00082	10.25	0.407	99.10
		0.000027	0.00069	10.50	0.336	99.43
		0.000023	0.00058	10.75	0.262	99.69
		0.000019	0.00049	11.00	0.184	99.88
		0.000016	0.00041	11.25	0.098	99.98
		0.000015	0.00038	11.50	0.024	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very fine sand sized			
(in)	0.0036	0.0036	0.0036	
(mm)	0.0908	0.0908	0.0908	
Mean	Very fine sand sized			
(in)	0.0048	0.0021	0.0025	
(mm)	0.1230	0.0541	0.0643	
Sorting	Very poor			
	3.525	2.535	2.412	
Skewness	Strongly fine skewed			
	0.711	0.544	0.330	
Kurtosis	Platykurtic			
	0.275	0.490	0.852	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.77	56.57	34.91	7.76	42.66
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0188	0.4782	1.0645	
10	0.0152	0.3850	1.3770	
16	0.0124	0.3139	1.6716	
25	0.0090	0.2276	2.1354	
40	0.0050	0.1275	2.9713	
50	0.0036	0.0908	3.4618	
70	0.0010	0.0265	5.2380	
75	0.0007	0.0183	5.7710	
84	0.0004	0.0093	6.7422	
90	0.0002	0.0052	7.5907	
95	0.0001	0.0025	8.6192	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



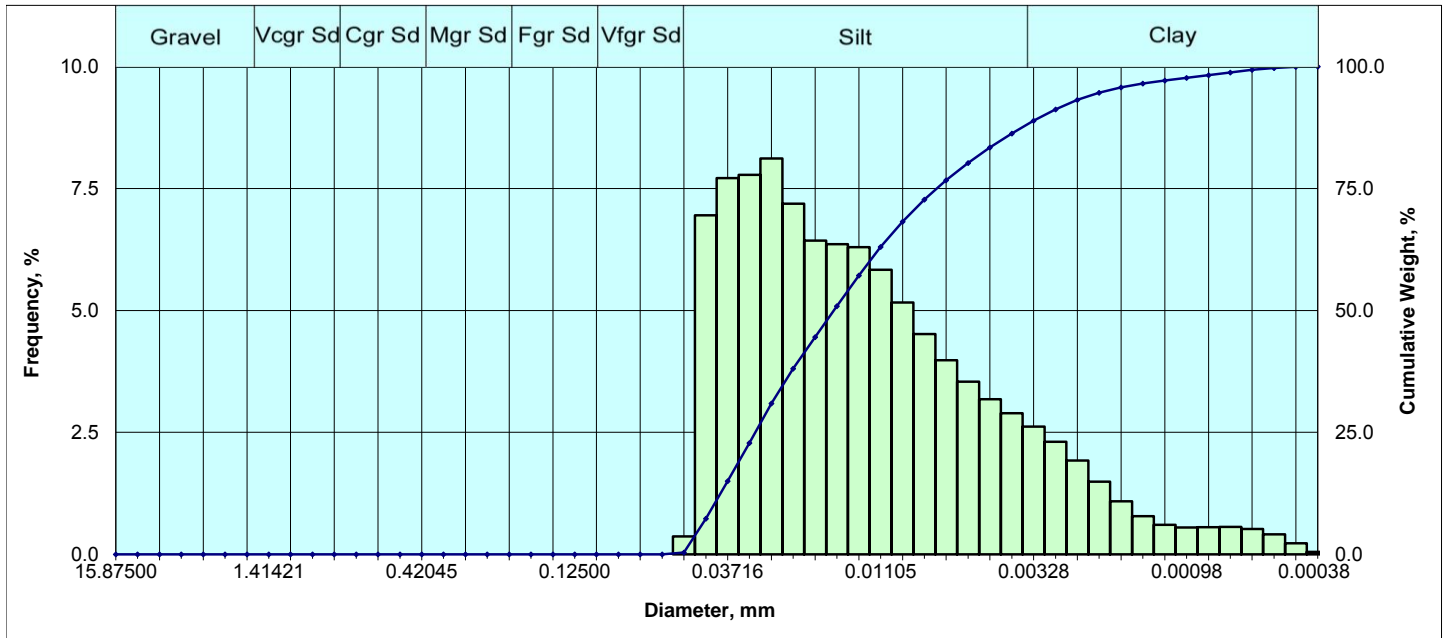
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
Medium Sand	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
Fine Sand	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
V. Fine Sand	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
Silt	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.044	0.04
	325	0.001740	0.04419	4.50	1.750	1.79
	400	0.001463	0.03716	4.75	6.343	8.14
	450	0.001230	0.03125	5.00	7.565	15.70
	500	0.001035	0.02628	5.25	6.225	21.93
	635	0.000870	0.02210	5.50	5.422	27.35
		0.000732	0.01858	5.75	5.679	33.03
		0.000615	0.01562	6.00	5.946	38.97
		0.000517	0.01314	6.25	5.821	44.79
		0.000435	0.01105	6.50	5.625	50.42
		0.000366	0.00929	6.75	5.365	55.78
	0.000308	0.00781	7.00	5.088	60.87	
	0.000259	0.00657	7.25	4.868	65.74	
	0.000217	0.00552	7.50	4.648	70.39	
	0.000183	0.00465	7.75	4.415	74.80	
	0.000154	0.00391	8.00	4.175	78.98	
Clay		0.000129	0.00328	8.25	3.850	82.83
		0.000109	0.00276	8.50	3.468	86.30
		0.000091	0.00232	8.75	3.034	89.33
		0.000077	0.00195	9.00	2.569	91.90
		0.000065	0.00164	9.25	2.112	94.01
		0.000054	0.00138	9.50	1.682	95.69
		0.000046	0.00116	9.75	1.299	96.99
		0.000038	0.00098	10.00	0.982	97.97
		0.000032	0.00082	10.25	0.730	98.70
		0.000027	0.00069	10.50	0.532	99.24
		0.000023	0.00058	10.75	0.372	99.61
		0.000019	0.00049	11.00	0.239	99.85
		0.000016	0.00041	11.25	0.122	99.97
		0.000015	0.00038	11.50	0.029	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0112	0.0112	0.0112	
Mean	Silt sized			
(in)	0.0006	0.0004	0.0004	
(mm)	0.0143	0.0098	0.0103	
Sorting	Poor			
	2.277	1.659	1.553	
Skewness	Finely skewed			
	0.937	0.317	0.168	
Kurtosis	Platykurtic			
	0.288	0.438	0.823	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	78.98	21.02	100.00
Particle Diameter				
Percentile [Weight, %]	[in.]	[mm]	[phi]	
5	0.0016	0.0406	4.6209	
10	0.0014	0.0357	4.8077	
16	0.0012	0.0310	5.0110	
25	0.0009	0.0239	5.3863	
40	0.0006	0.0152	6.0410	
50	0.0004	0.0112	6.4798	
70	0.0002	0.0056	7.4774	
75	0.0002	0.0046	7.7608	
84	0.0001	0.0031	8.3297	
90	0.0001	0.0022	8.8111	
95	0.0001	0.0015	9.3917	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



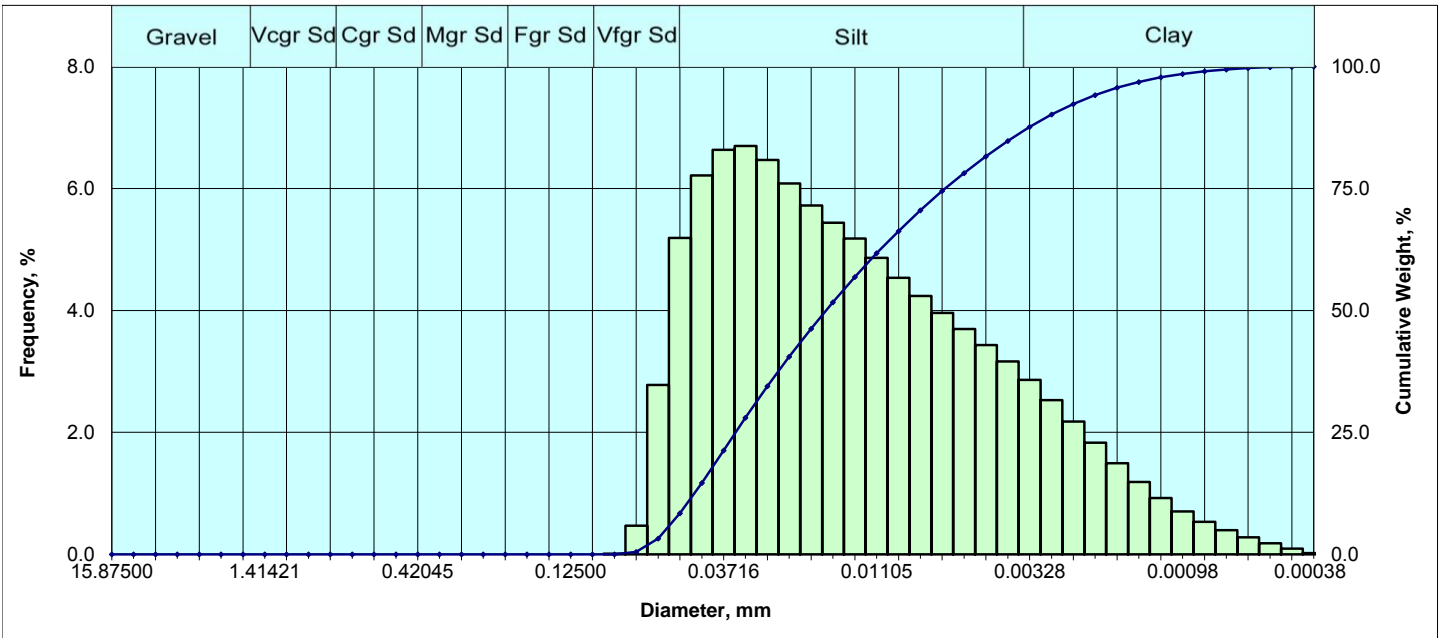
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
Medium Sand	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
Fine Sand	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
V. Fine Sand	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
Silt	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.366	0.37
	325	0.001740	0.04419	4.50	6.951	7.32
Clay	400	0.001463	0.03716	4.75	7.711	15.03
	450	0.001230	0.03125	5.00	7.778	22.81
	500	0.001035	0.02628	5.25	8.118	30.92
	635	0.000870	0.02210	5.50	7.189	38.11
		0.000732	0.01858	5.75	6.431	44.54
		0.000615	0.01562	6.00	6.361	50.90
		0.000517	0.01314	6.25	6.300	57.20
		0.000435	0.01105	6.50	5.832	63.04
		0.000366	0.00929	6.75	5.161	68.20
		0.000308	0.00781	7.00	4.518	72.72
		0.000259	0.00657	7.25	3.982	76.70
		0.000217	0.00552	7.50	3.539	80.24
		0.000183	0.00465	7.75	3.178	83.41
		0.000154	0.00391	8.00	2.892	86.31
		0.000129	0.00328	8.25	2.621	88.93
	0.000109	0.00276	8.50	2.307	91.23	
	0.000091	0.00232	8.75	1.922	93.16	
	0.000077	0.00195	9.00	1.493	94.65	
	0.000065	0.00164	9.25	1.090	95.74	
	0.000054	0.00138	9.50	0.782	96.52	
	0.000046	0.00116	9.75	0.604	97.12	
	0.000038	0.00098	10.00	0.548	97.67	
	0.000032	0.00082	10.25	0.555	98.23	
	0.000027	0.00069	10.50	0.562	98.79	
	0.000023	0.00058	10.75	0.520	99.31	
	0.000019	0.00049	11.00	0.409	99.72	
	0.000016	0.00041	11.25	0.230	99.95	
	0.000015	0.00038	11.50	0.050	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0160	0.0160	0.0160	
Mean	Silt sized			
(in)	0.0007	0.0005	0.0005	
(mm)	0.0185	0.0128	0.0138	
Sorting	Poor			
	2.052	1.509	1.461	
Skewness	Finely skewed			
	0.908	0.518	0.276	
Kurtosis	Mesokurtic			
	0.295	0.545	0.921	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	86.31	13.69	100.00
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0018	0.0470	4.4118	
10	0.0016	0.0417	4.5822	
16	0.0014	0.0364	4.7790	
25	0.0012	0.0299	5.0634	
40	0.0008	0.0211	5.5690	
50	0.0006	0.0160	5.9617	
70	0.0003	0.0087	6.8446	
75	0.0003	0.0071	7.1381	
84	0.0002	0.0045	7.7973	
90	0.0001	0.0030	8.3608	
95	0.0001	0.0019	9.0758	

**All Grain Sizes Classified Using Wentworth Scale



Sieve and Laser Particle Size Analysis



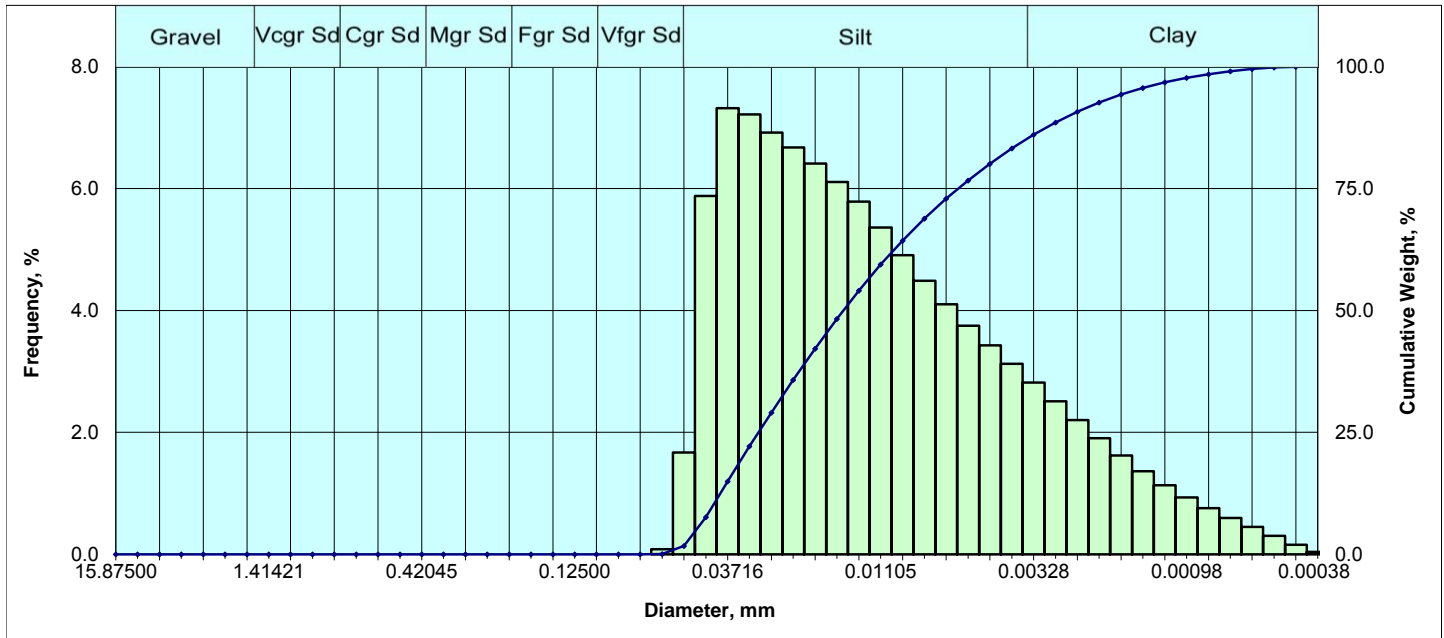
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
Medium Sand	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
Fine Sand	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
V. Fine Sand	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.009	0.01
Silt	200	0.002926	0.07433	3.75	0.469	0.48
	230	0.002461	0.06250	4.00	2.779	3.26
	270	0.002069	0.05256	4.25	5.191	8.45
	325	0.001740	0.04419	4.50	6.217	14.66
	400	0.001463	0.03716	4.75	6.636	21.30
	450	0.001230	0.03125	5.00	6.697	28.00
	500	0.001035	0.02628	5.25	6.468	34.47
	635	0.000870	0.02210	5.50	6.081	40.55
		0.000732	0.01858	5.75	5.720	46.27
		0.000615	0.01562	6.00	5.441	51.71
Clay		0.000517	0.01314	6.25	5.181	56.89
		0.000435	0.01105	6.50	4.862	61.75
		0.000366	0.00929	6.75	4.537	66.29
		0.000308	0.00781	7.00	4.237	70.52
		0.000259	0.00657	7.25	3.960	74.48
		0.000217	0.00552	7.50	3.697	78.18
		0.000183	0.00465	7.75	3.433	81.61
		0.000154	0.00391	8.00	3.164	84.78
		0.000129	0.00328	8.25	2.861	87.64
		0.000109	0.00276	8.50	2.529	90.17
		0.000091	0.00232	8.75	2.180	92.35
		0.000077	0.00195	9.00	1.830	94.18
		0.000065	0.00164	9.25	1.494	95.67
		0.000054	0.00138	9.50	1.190	96.86
		0.000046	0.00116	9.75	0.924	97.78
	0.000038	0.00098	10.00	0.706	98.49	
	0.000032	0.00082	10.25	0.533	99.02	
	0.000027	0.00069	10.50	0.395	99.42	
	0.000023	0.00058	10.75	0.281	99.70	
	0.000019	0.00049	11.00	0.183	99.88	
	0.000016	0.00041	11.25	0.094	99.98	
	0.000015	0.00038	11.50	0.023	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0166	0.0166	0.0166	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0006	
(mm)	0.0202	0.0132	0.0143	
Sorting	Poor			
	2.297	1.694	1.612	
Skewness	Finely skewed			
	0.891	0.407	0.232	
Kurtosis	Platykurtic			
	0.288	0.492	0.863	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	3.26	81.52	15.22	96.74
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0023	0.0592	4.0792	
10	0.0020	0.0505	4.3085	
16	0.0017	0.0428	4.5470	
25	0.0013	0.0339	4.8827	
40	0.0009	0.0225	5.4757	
50	0.0007	0.0166	5.9168	
70	0.0003	0.0080	6.9667	
75	0.0003	0.0064	7.2825	
84	0.0002	0.0041	7.9345	
90	0.0001	0.0028	8.4821	
95	0.0001	0.0018	9.1324	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



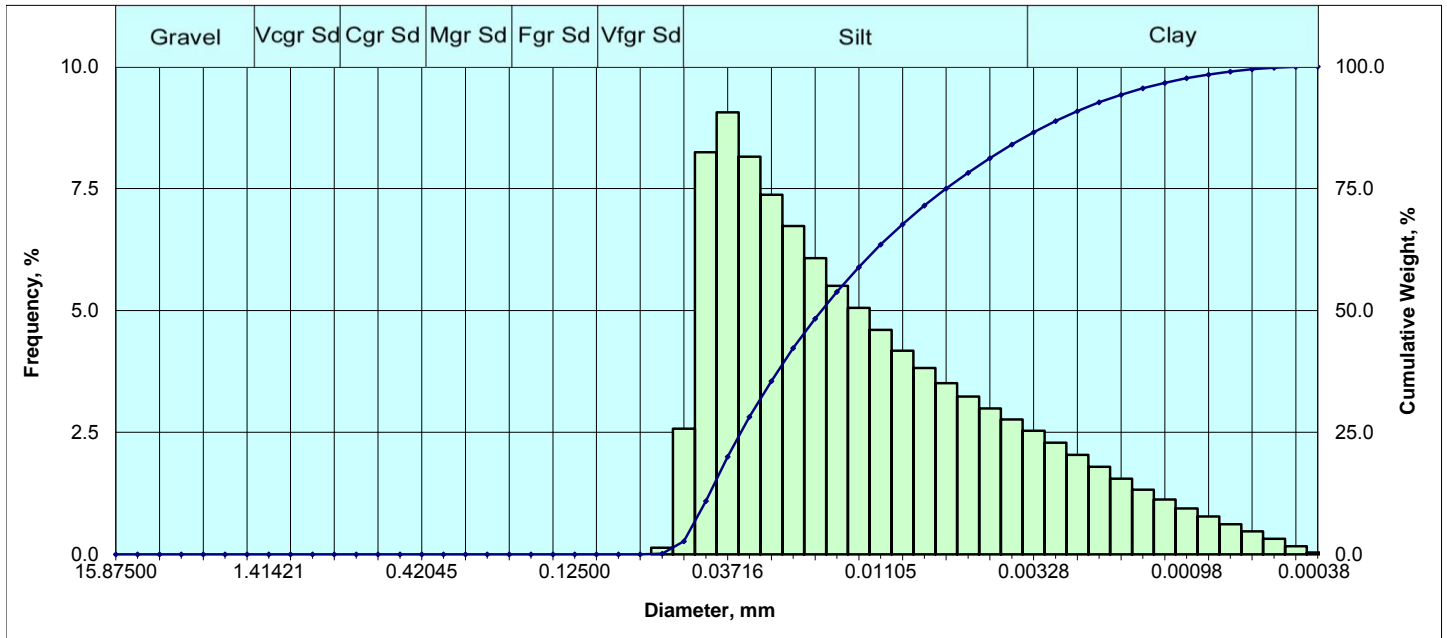
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
Medium Sand	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
Fine Sand	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
V. Fine Sand	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
Silt	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.084	0.08
	270	0.002069	0.05256	4.25	1.669	1.75
	325	0.001740	0.04419	4.50	5.878	7.63
	400	0.001463	0.03716	4.75	7.317	14.95
	450	0.001230	0.03125	5.00	7.215	22.16
	500	0.001035	0.02628	5.25	6.916	29.08
	635	0.000870	0.02210	5.50	6.674	35.75
		0.000732	0.01858	5.75	6.412	42.16
		0.000615	0.01562	6.00	6.109	48.27
		0.000517	0.01314	6.25	5.784	54.06
		0.000435	0.01105	6.50	5.360	59.42
	0.000366	0.00929	6.75	4.905	64.32	
	0.000308	0.00781	7.00	4.485	68.81	
	0.000259	0.00657	7.25	4.101	72.91	
	0.000217	0.00552	7.50	3.751	76.66	
	0.000183	0.00465	7.75	3.427	80.09	
	0.000154	0.00391	8.00	3.123	83.21	
Clay		0.000129	0.00328	8.25	2.818	86.03
		0.000109	0.00276	8.50	2.510	88.54
		0.000091	0.00232	8.75	2.202	90.74
		0.000077	0.00195	9.00	1.904	92.64
		0.000065	0.00164	9.25	1.621	94.26
		0.000054	0.00138	9.50	1.363	95.63
		0.000046	0.00116	9.75	1.135	96.76
		0.000038	0.00098	10.00	0.933	97.69
		0.000032	0.00082	10.25	0.758	98.45
		0.000027	0.00069	10.50	0.598	99.05
		0.000023	0.00058	10.75	0.448	99.50
		0.000019	0.00049	11.00	0.304	99.80
		0.000016	0.00041	11.25	0.160	99.96
		0.000015	0.00038	11.50	0.039	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0006	0.0006	0.0006	
(mm)	0.0149	0.0149	0.0149	
Mean	Silt sized			
(in)	0.0007	0.0005	0.0005	
(mm)	0.0176	0.0116	0.0126	
Sorting	Poor			
	2.209	1.641	1.578	
Skewness	Finely skewed			
	0.889	0.494	0.270	
Kurtosis	Platykurtic			
	0.294	0.523	0.896	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.08	83.12	16.79	99.92
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0019	0.0479	4.3827	
10	0.0017	0.0419	4.5763	
16	0.0014	0.0363	4.7839	
25	0.0011	0.0292	5.0974	
40	0.0008	0.0198	5.6607	
50	0.0006	0.0149	6.0702	
70	0.0003	0.0075	7.0684	
75	0.0002	0.0060	7.3841	
84	0.0001	0.0037	8.0660	
90	0.0001	0.0025	8.6613	
95	0.0001	0.0015	9.3799	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



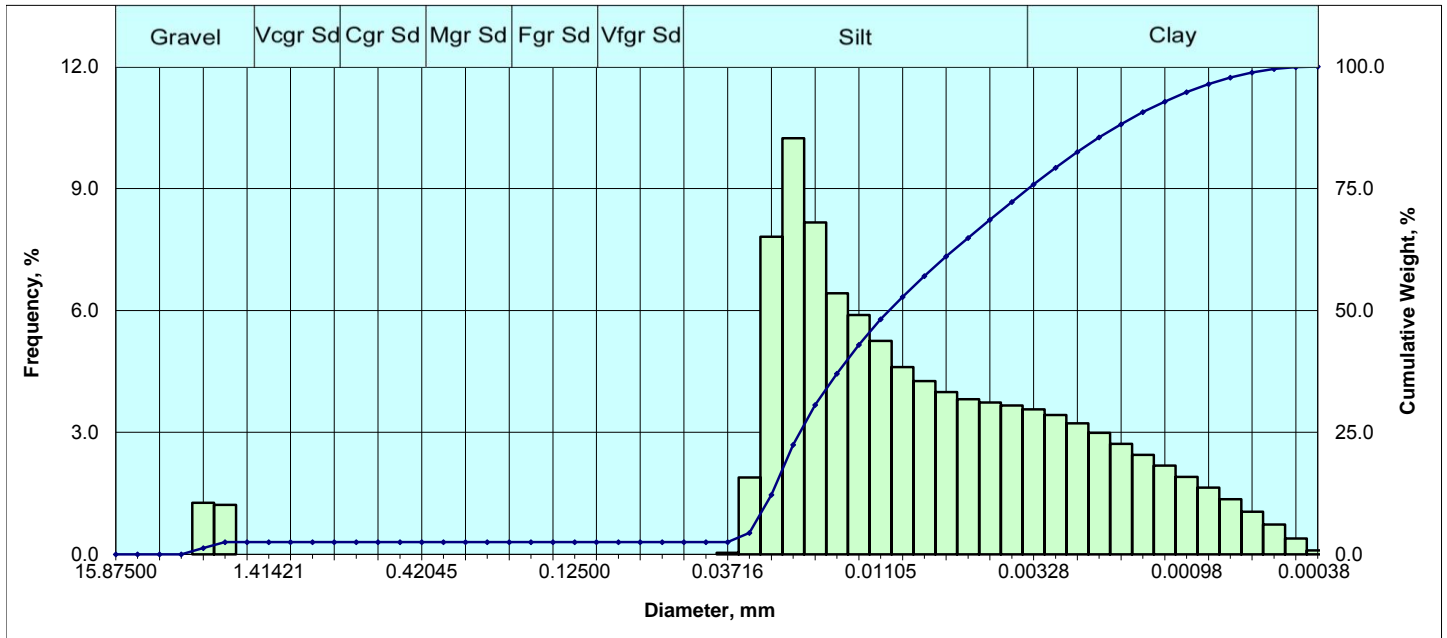
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
Medium Sand	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
Fine Sand	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
V. Fine Sand	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
Silt	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.135	0.14
	270	0.002069	0.05256	4.25	2.578	2.71
	325	0.001740	0.04419	4.50	8.242	10.96
	400	0.001463	0.03716	4.75	9.063	20.02
	450	0.001230	0.03125	5.00	8.153	28.17
	500	0.001035	0.02628	5.25	7.369	35.54
	635	0.000870	0.02210	5.50	6.729	42.27
		0.000732	0.01858	5.75	6.073	48.34
		0.000615	0.01562	6.00	5.504	53.85
		0.000517	0.01314	6.25	5.055	58.90
Clay		0.000435	0.01105	6.50	4.600	63.50
		0.000366	0.00929	6.75	4.175	67.68
		0.000308	0.00781	7.00	3.818	71.50
		0.000259	0.00657	7.25	3.508	75.00
		0.000217	0.00552	7.50	3.237	78.24
		0.000183	0.00465	7.75	2.993	81.23
		0.000154	0.00391	8.00	2.767	84.00
		0.000129	0.00328	8.25	2.534	86.53
		0.000109	0.00276	8.50	2.291	88.83
		0.000091	0.00232	8.75	2.042	90.87
		0.000077	0.00195	9.00	1.793	92.66
		0.000065	0.00164	9.25	1.552	94.21
		0.000054	0.00138	9.50	1.328	95.54
		0.000046	0.00116	9.75	1.125	96.67
		0.000038	0.00098	10.00	0.941	97.61
	0.000032	0.00082	10.25	0.776	98.38	
	0.000027	0.00069	10.50	0.619	99.00	
	0.000023	0.00058	10.75	0.469	99.47	
	0.000019	0.00049	11.00	0.320	99.79	
	0.000016	0.00041	11.25	0.168	99.96	
	0.000015	0.00038	11.50	0.041	100.00	

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0177	0.0177	0.0177	
Mean	Silt sized			
(in)	0.0008	0.0005	0.0006	
(mm)	0.0201	0.0125	0.0141	
Sorting	Poor			
	2.260	1.683	1.611	
Skewness	Strongly fine skewed			
	0.839	0.614	0.351	
Kurtosis	Platykurtic			
	0.316	0.508	0.885	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.14	83.87	16.00	99.86
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0020	0.0502	4.3151	
10	0.0018	0.0452	4.4687	
16	0.0016	0.0403	4.6338	
25	0.0013	0.0336	4.8975	
40	0.0009	0.0235	5.4107	
50	0.0007	0.0177	5.8208	
70	0.0003	0.0084	6.8968	
75	0.0003	0.0066	7.2497	
84	0.0002	0.0039	8.0000	
90	0.0001	0.0025	8.6385	
95	0.0001	0.0015	9.3930	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



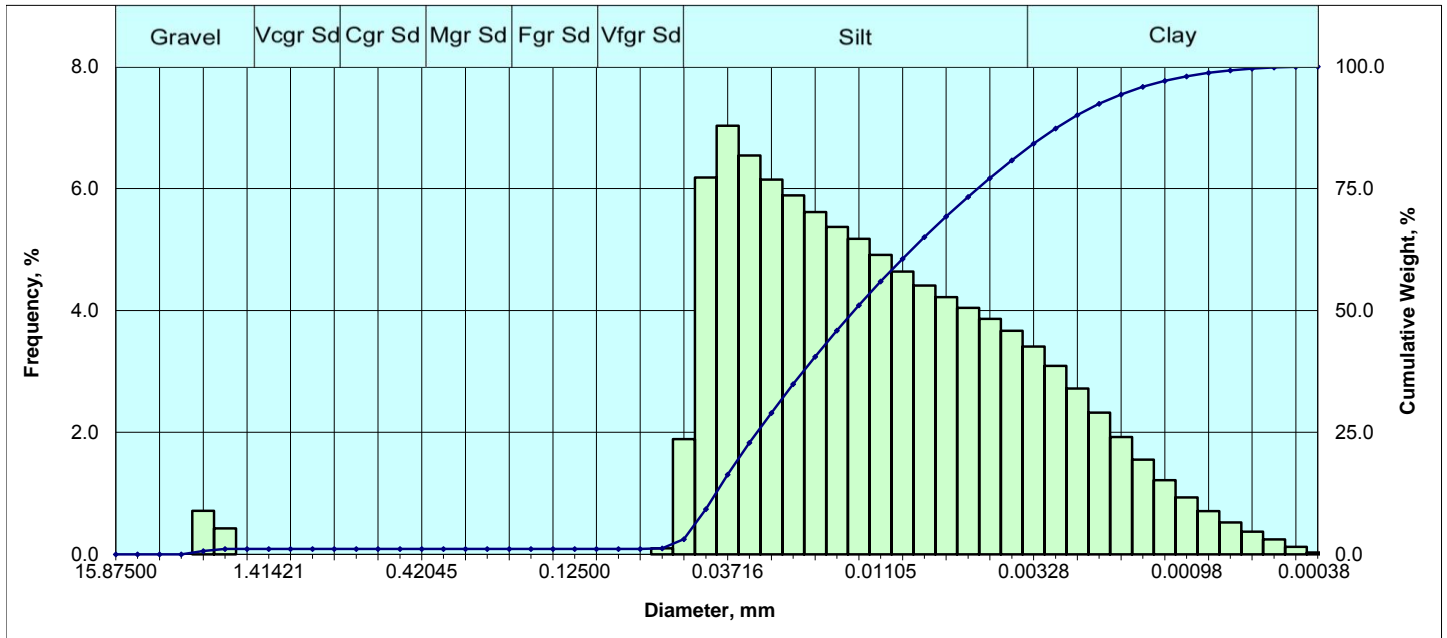
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	1.270	1.27
V Crse Sand	10	0.078740	2.00000	-1.00	1.220	2.49
	12	0.066212	1.68179	-0.75	0.000	2.49
	14	0.055678	1.41421	-0.50	0.000	2.49
	16	0.046819	1.18921	-0.25	0.000	2.49
Coarse Sand	18	0.039370	1.00000	0.00	0.000	2.49
	20	0.033108	0.84090	0.25	0.000	2.49
	25	0.027839	0.70711	0.50	0.000	2.49
Medium Sand	30	0.023410	0.59460	0.75	0.000	2.49
	35	0.019685	0.50000	1.00	0.000	2.49
	40	0.016553	0.42045	1.25	0.000	2.49
	45	0.013919	0.35355	1.50	0.000	2.49
Fine Sand	50	0.011705	0.29730	1.75	0.000	2.49
	60	0.009843	0.25000	2.00	0.000	2.49
	70	0.008277	0.21022	2.25	0.000	2.49
	80	0.006960	0.17678	2.50	0.000	2.49
V. Fine Sand	100	0.005852	0.14865	2.75	0.000	2.49
	120	0.004921	0.12500	3.00	0.000	2.49
	140	0.004138	0.10511	3.25	0.000	2.49
	170	0.003480	0.08839	3.50	0.000	2.49
	200	0.002926	0.07433	3.75	0.000	2.49
Silt	230	0.002461	0.06250	4.00	0.000	2.49
	270	0.002069	0.05256	4.25	0.000	2.49
	325	0.001740	0.04419	4.50	0.000	2.49
	400	0.001463	0.03716	4.75	0.042	2.53
	450	0.001230	0.03125	5.00	1.887	4.42
	500	0.001035	0.02628	5.25	7.811	12.23
	635	0.000870	0.02210	5.50	10.238	22.47
		0.000732	0.01858	5.75	8.166	30.63
		0.000615	0.01562	6.00	6.419	37.05
		0.000517	0.01314	6.25	5.885	42.94
		0.000435	0.01105	6.50	5.253	48.19
		0.000366	0.00929	6.75	4.610	52.80
		0.000308	0.00781	7.00	4.266	57.07
		0.000259	0.00657	7.25	3.995	61.06
	0.000217	0.00552	7.50	3.815	64.88	
	0.000183	0.00465	7.75	3.738	68.61	
	0.000154	0.00391	8.00	3.659	72.27	
Clay		0.000129	0.00328	8.25	3.569	75.84
		0.000109	0.00276	8.50	3.429	79.27
		0.000091	0.00232	8.75	3.222	82.49
		0.000077	0.00195	9.00	2.989	85.48
		0.000065	0.00164	9.25	2.718	88.20
		0.000054	0.00138	9.50	2.444	90.64
		0.000046	0.00116	9.75	2.183	92.83
		0.000038	0.00098	10.00	1.908	94.74
		0.000032	0.00082	10.25	1.643	96.38
		0.000027	0.00069	10.50	1.354	97.73
		0.000023	0.00058	10.75	1.051	98.78
		0.000019	0.00049	11.00	0.732	99.52
		0.000016	0.00041	11.25	0.388	99.90
		0.000015	0.00038	11.50	0.095	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0104	0.0104	0.0104	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0003	
(mm)	0.0122	0.0073	0.0082	
Sorting	Poor			
	2.474	1.767	1.644	
Skewness	Strongly fine skewed			
	0.820	0.529	0.331	
Kurtosis	Platykurtic			
	0.335	0.421	0.787	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
2.49	0.00	69.78	27.73	97.51
Percentile [Weight, %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0012	0.0309	5.0172	
10	0.0011	0.0277	5.1741	
16	0.0010	0.0247	5.3371	
25	0.0008	0.0210	5.5730	
40	0.0006	0.0144	6.1198	
50	0.0004	0.0104	6.5930	
70	0.0002	0.0044	7.8397	
75	0.0001	0.0034	8.1870	
84	0.0001	0.0021	8.8706	
90	0.0001	0.0015	9.4297	
95	0.0000	0.0010	10.0373	

**All Grain Sizes Classified Using Wentworth Scale



Sieve and Laser Particle Size Analysis



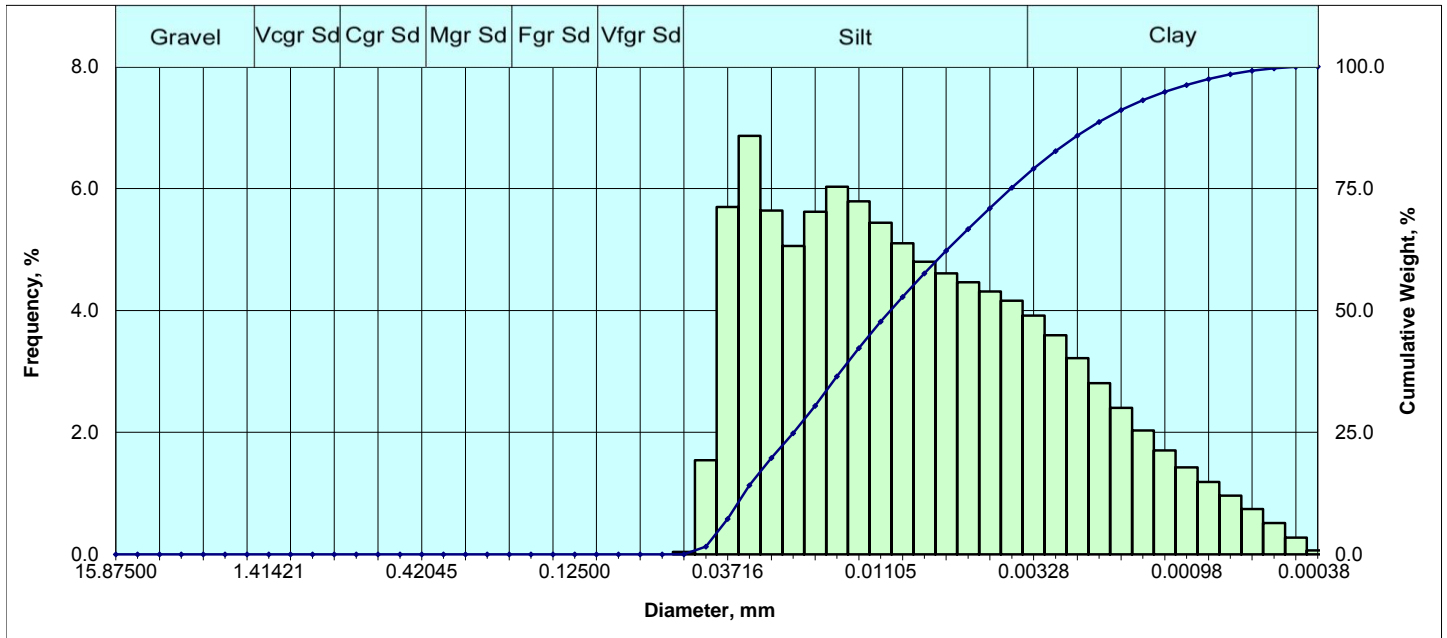
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.713	0.71
V Crse Sand	10	0.078740	2.00000	-1.00	0.428	1.14
	12	0.066212	1.68179	-0.75	0.000	1.14
	14	0.055678	1.41421	-0.50	0.000	1.14
	16	0.046819	1.18921	-0.25	0.000	1.14
Coarse Sand	18	0.039370	1.00000	0.00	0.000	1.14
	20	0.033108	0.84090	0.25	0.000	1.14
	25	0.027839	0.70711	0.50	0.000	1.14
Medium Sand	30	0.023410	0.59460	0.75	0.000	1.14
	35	0.019685	0.50000	1.00	0.000	1.14
	40	0.016553	0.42045	1.25	0.000	1.14
	45	0.013919	0.35355	1.50	0.000	1.14
Fine Sand	50	0.011705	0.29730	1.75	0.000	1.14
	60	0.009843	0.25000	2.00	0.000	1.14
	70	0.008277	0.21022	2.25	0.000	1.14
V. Fine Sand	80	0.006960	0.17678	2.50	0.000	1.14
	100	0.005852	0.14865	2.75	0.000	1.14
	120	0.004921	0.12500	3.00	0.000	1.14
	140	0.004138	0.10511	3.25	0.000	1.14
Silt	170	0.003480	0.08839	3.50	0.000	1.14
	200	0.002926	0.07433	3.75	0.000	1.14
	230	0.002461	0.06250	4.00	0.098	1.24
	270	0.002069	0.05256	4.25	1.889	3.13
Clay	325	0.001740	0.04419	4.50	6.182	9.31
	400	0.001463	0.03716	4.75	7.028	16.34
	450	0.001230	0.03125	5.00	6.542	22.88
	500	0.001035	0.02628	5.25	6.144	29.02
	635	0.000870	0.02210	5.50	5.887	34.91
		0.000732	0.01858	5.75	5.616	40.53
		0.000615	0.01562	6.00	5.369	45.90
		0.000517	0.01314	6.25	5.175	51.07
		0.000435	0.01105	6.50	4.912	55.98
		0.000366	0.00929	6.75	4.637	60.62
		0.000308	0.00781	7.00	4.411	65.03
		0.000259	0.00657	7.25	4.217	69.25
		0.000217	0.00552	7.50	4.041	73.29
		0.000183	0.00465	7.75	3.863	77.15
		0.000154	0.00391	8.00	3.668	80.82
Clay		0.000129	0.00328	8.25	3.410	84.23
		0.000109	0.00276	8.50	3.090	87.32
		0.000091	0.00232	8.75	2.721	90.04
		0.000077	0.00195	9.00	2.325	92.37
		0.000065	0.00164	9.25	1.926	94.29
		0.000054	0.00138	9.50	1.552	95.84
		0.000046	0.00116	9.75	1.216	97.06
		0.000038	0.00098	10.00	0.934	97.99
		0.000032	0.00082	10.25	0.708	98.70
		0.000027	0.00069	10.50	0.525	99.23
		0.000023	0.00058	10.75	0.373	99.60
		0.000019	0.00049	11.00	0.243	99.84
		0.000016	0.00041	11.25	0.125	99.97
		0.000015	0.00038	11.50	0.030	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0005	0.0005	0.0005	
(mm)	0.0137	0.0137	0.0137	
Mean	Silt sized			
(in)	0.0007	0.0004	0.0005	
(mm)	0.0173	0.0112	0.0119	
Sorting	Poor			
	2.398	1.747	1.637	
Skewness	Finely skewed			
	0.902	0.369	0.211	
Kurtosis	Platykurtic			
	0.296	0.441	0.818	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
1.14	0.10	79.58	19.18	98.76
Particle Diameter				
Percentile [Weight, %]	[in.]	[mm]	[phi]	
5	0.0020	0.0500	4.3213	
10	0.0017	0.0435	4.5227	
16	0.0015	0.0375	4.7370	
25	0.0012	0.0295	5.0815	
40	0.0007	0.0189	5.7246	
50	0.0005	0.0137	6.1946	
70	0.0003	0.0064	7.2934	
75	0.0002	0.0051	7.6054	
84	0.0001	0.0033	8.2317	
90	0.0001	0.0023	8.7459	
95	0.0001	0.0015	9.3587	

**All Grain Sizes Classified Using Wentworth Scale



Sieve and Laser Particle Size Analysis



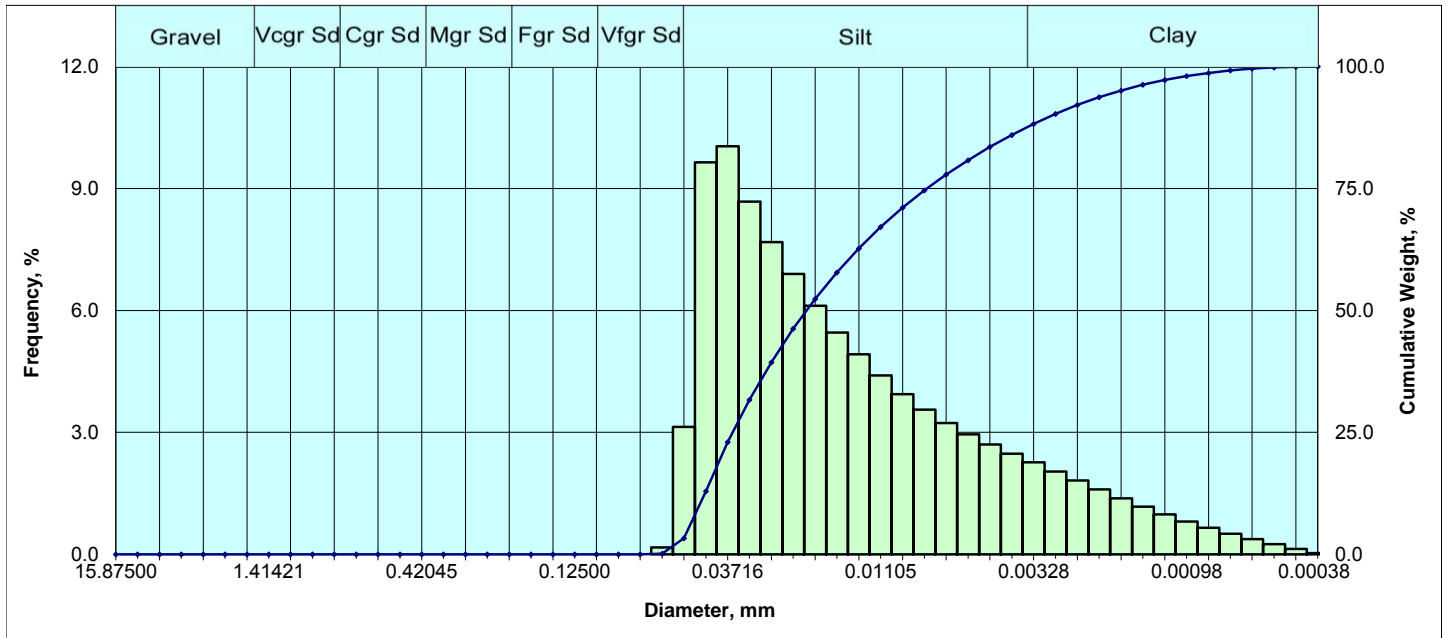
	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.000	0.00
	270	0.002069	0.05256	4.25	0.039	0.04
	325	0.001740	0.04419	4.50	1.542	1.58
	400	0.001463	0.03716	4.75	5.698	7.28
	450	0.001230	0.03125	5.00	6.865	14.14
	500	0.001035	0.02628	5.25	5.637	19.78
	635	0.000870	0.02210	5.50	5.059	24.84
		0.000732	0.01858	5.75	5.617	30.46
		0.000615	0.01562	6.00	6.027	36.48
		0.000517	0.01314	6.25	5.788	42.27
		0.000435	0.01105	6.50	5.440	47.71
		0.000366	0.00929	6.75	5.103	52.81
	0.000308	0.00781	7.00	4.800	57.61	
	0.000259	0.00657	7.25	4.609	62.22	
	0.000217	0.00552	7.50	4.461	66.68	
	0.000183	0.00465	7.75	4.309	70.99	
	0.000154	0.00391	8.00	4.158	75.15	
Clay		0.000129	0.00328	8.25	3.915	79.07
		0.000109	0.00276	8.50	3.596	82.66
		0.000091	0.00232	8.75	3.218	85.88
		0.000077	0.00195	9.00	2.806	88.69
		0.000065	0.00164	9.25	2.402	91.09
		0.000054	0.00138	9.50	2.030	93.12
		0.000046	0.00116	9.75	1.706	94.82
		0.000038	0.00098	10.00	1.429	96.25
		0.000032	0.00082	10.25	1.189	97.44
		0.000027	0.00069	10.50	0.963	98.41
		0.000023	0.00058	10.75	0.741	99.15
		0.000019	0.00049	11.00	0.514	99.66
		0.000016	0.00041	11.25	0.274	99.93
		0.000015	0.00038	11.50	0.067	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0004	0.0004	0.0004	
(mm)	0.0103	0.0103	0.0103	
Mean	Silt sized			
(in)	0.0005	0.0003	0.0004	
(mm)	0.0130	0.0087	0.0092	
Sorting	Poor			
	2.365	1.761	1.658	
Skewness	Finely skewed			
	0.907	0.344	0.184	
Kurtosis	Platykurtic			
	0.273	0.458	0.847	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	75.15	24.85	100.00
Percentile [Weight, %]				
Particle Diameter				
	[in.]	[mm]	[phi]	
5	0.0016	0.0400	4.6448	
10	0.0014	0.0348	4.8440	
16	0.0012	0.0296	5.0776	
25	0.0009	0.0220	5.5066	
40	0.0006	0.0141	6.1467	
50	0.0004	0.0103	6.6068	
70	0.0002	0.0048	7.6884	
75	0.0002	0.0039	7.9901	
84	0.0001	0.0026	8.5987	
90	0.0001	0.0018	9.1313	
95	0.0000	0.0011	9.7785	

**All Grain Sizes Classed Using Wentworth Scale



Sieve and Laser Particle Size Analysis



	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Gravel	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
V Crse Sand	10	0.078740	2.00000	-1.00	0.000	0.00
	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
Coarse Sand	18	0.039370	1.00000	0.00	0.000	0.00
	20	0.033108	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
Medium Sand	35	0.019685	0.50000	1.00	0.000	0.00
	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
Fine Sand	60	0.009843	0.25000	2.00	0.000	0.00
	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
V. Fine Sand	120	0.004921	0.12500	3.00	0.000	0.00
	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
Silt	230	0.002461	0.06250	4.00	0.167	0.17
	270	0.002069	0.05256	4.25	3.138	3.30
	325	0.001740	0.04419	4.50	9.643	12.95
	400	0.001463	0.03716	4.75	10.039	22.99
	450	0.001230	0.03125	5.00	8.678	31.66
	500	0.001035	0.02628	5.25	7.681	39.35
	635	0.000870	0.02210	5.50	6.899	46.24
		0.000732	0.01858	5.75	6.112	52.36
		0.000615	0.01562	6.00	5.453	57.81
		0.000517	0.01314	6.25	4.923	62.73
		0.000435	0.01105	6.50	4.403	67.14
		0.000366	0.00929	6.75	3.941	71.08
	0.000308	0.00781	7.00	3.559	74.64	
	0.000259	0.00657	7.25	3.230	77.87	
	0.000217	0.00552	7.50	2.949	80.82	
	0.000183	0.00465	7.75	2.702	83.52	
	0.000154	0.00391	8.00	2.479	86.00	
Clay		0.000129	0.00328	8.25	2.261	88.26
		0.000109	0.00276	8.50	2.040	90.30
		0.000091	0.00232	8.75	1.818	92.11
		0.000077	0.00195	9.00	1.596	93.71
		0.000065	0.00164	9.25	1.378	95.09
		0.000054	0.00138	9.50	1.172	96.26
		0.000046	0.00116	9.75	0.980	97.24
		0.000038	0.00098	10.00	0.805	98.05
		0.000032	0.00082	10.25	0.651	98.70
		0.000027	0.00069	10.50	0.508	99.20
		0.000023	0.00058	10.75	0.377	99.58
		0.000019	0.00049	11.00	0.254	99.84
		0.000016	0.00041	11.25	0.132	99.97
		0.000015	0.00038	11.50	0.032	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0008	0.0008	0.0008	
(mm)	0.0199	0.0199	0.0199	
Mean	Silt sized			
(in)	0.0009	0.0005	0.0006	
(mm)	0.0217	0.0138	0.0156	
Sorting	Poor			
	2.160	1.612	1.555	
Skewness	Strongly fine skewed			
	0.831	0.691	0.391	
Kurtosis	Mesokurtic			
	0.320	0.533	0.912	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.17	85.83	14.00	99.83
Percentile [Weight, %]		Particle Diameter		
	[in.]	[mm]	[phi]	
5	0.0020	0.0511	4.2909	
10	0.0018	0.0468	4.4189	
16	0.0017	0.0421	4.5715	
25	0.0014	0.0358	4.8042	
40	0.0010	0.0259	5.2719	
50	0.0008	0.0199	5.6484	
70	0.0004	0.0098	6.6773	
75	0.0003	0.0077	7.0261	
84	0.0002	0.0045	7.7955	
90	0.0001	0.0028	8.4608	
95	0.0001	0.0017	9.2326	

**All Grain Sizes Classed Using Wentworth Scale

To: Larry Kunkel, Core Laboratories
 3470 Landco Drive, Bakersfield, CA 93308

NERT Project Work Order No. CL-2019-001
 Nevada Environmental Reponse Trust (NERT)
 Henderson, Nevada

Ramboll Project No.: 169001 1200-026 (Task M01)

PHYSICAL TESTING REQUEST
 for Sample Shipment Group (sent 12/21/18)

Date: March 11, 2019
 Submitted by: Ramboll, 2200 Powell Street, Suite 700
 Emeryville, CA 94608

Ramboll Contact: Ross Russell, (510) 420-2520

Boring	Soil Sample Depth (ft bgs)	Soil Sample Name	Container type (number)	Grain Size (+ USCS class.)	Atterberg Limits	Moisture Content	Dry Bulk Density	Effective Porosity	HYDRAULIC CONDUCTIVITY			Total Organic Carbon
									Vertical (to water)	Height of Unsaturated Soil Above Water Table	Height of Saturated Soil Below Water Table	
RIDB-34	24.0-24.5	PT-RIDB34-24.0-24.5	Glass jar	X	X (1)							X
RIDB-34	25.3-25.8	PT-RIDB34-25.3-25.8	Glass jar	X	X (1)							X
RIDB-34	35.5-36.0	PT-RIDB34-35.5-36.0	wrapped core	X	X	X	X	X				X
RIDB-34	58.0-58.5	PT-RIDB34-58.0-58.5	Glass jar	X	X (1)							X
RIDB-35	27.0-27.5	PT-RIDB35-27.0-27.5	Glass jar	X	X (1)							X
RIDB-35	28.5-29.0	PT-RIDB35-28.5-29.0	wrapped core	X	X	X	X	X				X
RIDB-35	36.0-36.5	PT-RIDB35-36.0-36.5	wrapped core	X	X	X	X	X				X
RIDB-35	43.2-43.7	PT-RIDB35-43.2-43.7	Glass jar	X	X (1)							X
RIDB-35	63.0-63.5	PT-RIDB35-63.0-63.5	Glass jar	X	X (1)							X
RIDB-35	86.0-86.5	PT-RIDB35-86.0-86.5	wrapped core	X	X	X	X	X	V	33 ft	53.5 ft	X
RIDB-35	106.0-106.5	PT-RIDB35-106.0-106.5	wrapped core	X	X	X	X	X	V	33 ft	73.5 ft	X
RIDB-35	135.0-135.5	PT-RIDB35-135.0-135.5	wrapped core	X	X	X	X	X	V	33 ft	102.5 ft	X
RIDB-35	149.5-150.0	PT-RIDB35-149.5-150.0	Glass jar	X	X (1)							X
RIDB-36	24.5-25.0	PT-RIDB36-24.5-25.0	wrapped core	X	X	X	X	X				X
RIDB-36	25.3-25.8	PT-RIDB36-25.3-25.8	Glass jar	X	X (1)							X
RIDB-36	68.0-68.5	PT-RIDB36-68.0-68.5	Glass jar	X	X (1)							X
RIDB-36	74.5-75.0	PT-RIDB36-74.5-75.0	Glass jar	X	X (1)							X
TOTALS:				17	17	7	7	7	3			17

Notes:

- (1) If necessary for classification of fines.
- (2) SOIL SAMPLES ARE LIKELY CONTAMINATED (perchlorate, metals, VOCs).