

Granularmetric Report Depths and elevations based on measured values				Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 seappinc.com seapp1@aol.com (321) 254-2708			
Project Name: Juno 2016							
Sample Name: Juno16-04 #0.5							
Analysis Date: 05-14-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
968,796		958,670		Florida State Plane East		-69.9 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Dry - 10YR-6/0.5					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
86.77	85.87	0.05	0.03	#200 - 1.40 #230 - 1.13		68.84	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.35	0.40	0.35	0.40	
4	-2.25	4.76	0.00	0.00	0.35	0.40	
5	-2.00	4.00	0.14	0.16	0.48	0.56	
7	-1.50	2.83	1.11	1.27	1.59	1.83	
10	-1.00	2.00	1.24	1.43	2.83	3.26	
14	-0.50	1.41	2.04	2.35	4.86	5.61	
18	0.00	1.00	3.10	3.57	7.96	9.18	
25	0.50	0.71	3.82	4.40	11.78	13.58	
35	1.00	0.50	6.80	7.83	18.58	21.41	
45	1.50	0.35	13.65	15.73	32.23	37.14	
60	2.00	0.25	23.29	26.84	55.52	63.98	
80	2.50	0.18	20.24	23.32	75.75	87.30	
120	3.00	0.13	6.54	7.54	82.30	94.84	
170	3.50	0.09	2.89	3.33	85.19	98.17	
200	3.75	0.07	0.38	0.43	85.56	98.60	
230	4.00	0.06	0.24	0.27	85.80	98.87	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.02	2.43	2.24	1.74	1.11	0.65	-0.63	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.54	0.34	1.05	-1.16	4.87		

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Project Name: Juno 2016							
Sample Name: Juno16-04 #3							
Analysis Date: 05-14-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
968,796		958,670		Florida State Plane East		-72.4 NAVD 88	
USCS:		Munsell:		Comments:			
		Dry - 10YR-6/0.5					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
85.28	82.50	1.21	0.30	#200 - 7.56 #230 - 5.00		70.74	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	2.19	2.57	2.19	2.57	
5/16"	-3.00	8.00	0.00	0.00	2.19	2.57	
3.5	-2.50	5.66	1.29	1.51	3.48	4.08	
4	-2.25	4.76	0.81	0.95	4.29	5.03	
5	-2.00	4.00	0.33	0.39	4.62	5.42	
7	-1.50	2.83	0.74	0.86	5.36	6.28	
10	-1.00	2.00	1.31	1.54	6.67	7.82	
14	-0.50	1.41	2.32	2.72	8.98	10.54	
18	0.00	1.00	3.33	3.91	12.32	14.45	
25	0.50	0.71	5.10	5.98	17.42	20.43	
35	1.00	0.50	8.87	10.40	26.29	30.83	
45	1.50	0.35	13.56	15.90	39.85	46.73	
60	2.00	0.25	14.73	17.27	54.58	64.00	
80	2.50	0.18	11.01	12.91	65.59	76.91	
120	3.00	0.13	11.01	12.91	76.60	89.82	
170	3.50	0.09	1.26	1.48	77.87	91.30	
200	3.75	0.07	0.97	1.14	78.84	92.44	
230	4.00	0.06	2.18	2.56	81.02	95.00	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
4.00	2.77	2.43	1.59	0.72	0.13	-2.26	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.26	0.42	1.55	-1.25	4.94		

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Project Name: Juno 2016							
Sample Name: Juno16-04 #6							
Analysis Date: 05-14-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
968,796		958,670		Florida State Plane East		-75.4 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Dry - 10YR-6/0.5					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
85.84	84.51	0.17	0.18	#200 - 2.13 #230 - 1.94		72.13	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.13	0.15	0.13	0.15	
4	-2.25	4.76	0.10	0.12	0.23	0.27	
5	-2.00	4.00	0.08	0.09	0.31	0.36	
7	-1.50	2.83	0.09	0.11	0.41	0.47	
10	-1.00	2.00	0.46	0.54	0.87	1.01	
14	-0.50	1.41	0.54	0.63	1.41	1.64	
18	0.00	1.00	0.99	1.16	2.40	2.80	
25	0.50	0.71	1.56	1.82	3.96	4.62	
35	1.00	0.50	4.05	4.72	8.02	9.34	
45	1.50	0.35	12.54	14.61	20.56	23.95	
60	2.00	0.25	19.24	22.41	39.80	46.36	
80	2.50	0.18	12.45	14.50	52.25	60.86	
120	3.00	0.13	22.88	26.65	75.12	87.51	
170	3.50	0.09	8.70	10.13	83.82	97.64	
200	3.75	0.07	0.20	0.23	84.02	97.87	
230	4.00	0.06	0.16	0.19	84.18	98.06	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.37	2.93	2.77	2.13	1.52	1.23	0.54	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.03	0.24	0.91	-1.14	5.68		

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Project Name: Juno 2016							
Sample Name: Juno16-04 #9							
Analysis Date: 05-14-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
968,796		958,670		Florida State Plane East		-78.4 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Dry - 10YR-6/0.5					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
86.66	85.39	0.11	0.27	#200 - 2.02 #230 - 1.86		76.51	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	2.98	3.44	2.98	3.44	
5/16"	-3.00	8.00	4.21	4.86	7.19	8.30	
3.5	-2.50	5.66	2.21	2.55	9.40	10.85	
4	-2.25	4.76	1.38	1.60	10.79	12.45	
5	-2.00	4.00	1.68	1.94	12.47	14.39	
7	-1.50	2.83	3.66	4.23	16.13	18.62	
10	-1.00	2.00	4.07	4.70	20.20	23.32	
14	-0.50	1.41	4.77	5.51	24.97	28.83	
18	0.00	1.00	4.95	5.71	29.92	34.54	
25	0.50	0.71	5.47	6.31	35.39	40.85	
35	1.00	0.50	8.93	10.30	44.32	51.15	
45	1.50	0.35	18.42	21.25	62.73	72.40	
60	2.00	0.25	13.12	15.14	75.86	87.54	
80	2.50	0.18	3.14	3.63	79.00	91.17	
120	3.00	0.13	3.80	4.38	82.80	95.55	
170	3.50	0.09	1.85	2.13	84.65	97.68	
200	3.75	0.07	0.26	0.30	84.91	97.98	
230	4.00	0.06	0.14	0.16	85.04	98.14	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.94	1.88	1.59	0.94	-0.85	-1.81	-3.34	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.29	0.82	1.8	-0.7	2.6		

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Project Name: Juno 2016							
Sample Name: Juno16-04 #12							
Analysis Date: 05-14-16							
Analyzed By:							
Easting (ft): 968,796		Northing (ft): 958,670		Coordinate System: Florida State Plane East		Elevation (ft): -81.4 NAVD 88	
USCS: SW		Munsell: Dry - 10YR-6/0.5		Comments:			
Dry Weight (g): 86.66	Wash Weight (g): 85.20	Pan Retained (g): 0.14	Sieve Loss (%): 0.22	Fines (%): #200 - 2.19 #230 - 2.05	Organics (%):	Carbonates (%): 67.50	Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	2.55	2.94	2.55	2.94	
11/16"	-3.50	11.31	2.91	3.36	5.46	6.30	
5/16"	-3.00	8.00	0.00	0.00	5.46	6.30	
3.5	-2.50	5.66	3.60	4.15	9.06	10.45	
4	-2.25	4.76	0.00	0.00	9.06	10.45	
5	-2.00	4.00	0.95	1.10	10.01	11.55	
7	-1.50	2.83	1.78	2.05	11.79	13.60	
10	-1.00	2.00	1.61	1.86	13.40	15.46	
14	-0.50	1.41	1.93	2.23	15.33	17.69	
18	0.00	1.00	2.17	2.51	17.50	20.20	
25	0.50	0.71	2.75	3.18	20.26	23.38	
35	1.00	0.50	7.08	8.16	27.33	31.54	
45	1.50	0.35	20.34	23.47	47.67	55.01	
60	2.00	0.25	23.55	27.18	71.22	82.19	
80	2.50	0.18	6.85	7.91	78.07	90.10	
120	3.00	0.13	3.31	3.82	81.38	93.92	
170	3.50	0.09	3.15	3.64	84.53	97.56	
200	3.75	0.07	0.21	0.25	84.75	97.81	
230	4.00	0.06	0.12	0.14	84.87	97.95	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.15	2.11	1.87	1.39	0.60	-0.88	-3.39	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.8	0.57	1.8	-1.4	4.18		

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Project Name: Juno 2016							
Sample Name: Juno16-04 #Comp 1							
Analysis Date: 05-14-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
968,796		958,670		Florida State Plane East		-83.4 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Dry - 10YR-6/0.5					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
85.25	83.66	0.38	0.27	#200 - 3.00 #230 - 2.59		71.34	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.95	1.11	0.95	1.11	
3.5	-2.50	5.66	0.81	0.95	1.76	2.06	
4	-2.25	4.76	0.29	0.34	2.05	2.40	
5	-2.00	4.00	0.19	0.23	2.25	2.63	
7	-1.50	2.83	1.26	1.48	3.50	4.11	
10	-1.00	2.00	1.10	1.29	4.61	5.40	
14	-0.50	1.41	1.79	2.09	6.39	7.49	
18	0.00	1.00	2.14	2.51	8.53	10.00	
25	0.50	0.71	2.53	2.97	11.06	12.97	
35	1.00	0.50	5.65	6.63	16.71	19.60	
45	1.50	0.35	14.63	17.17	31.35	36.77	
60	2.00	0.25	19.38	22.73	50.73	59.50	
80	2.50	0.18	10.47	12.28	61.20	71.78	
120	3.00	0.13	11.90	13.96	73.10	85.74	
170	3.50	0.09	9.30	10.91	82.40	96.65	
200	3.75	0.07	0.30	0.35	82.69	97.00	
230	4.00	0.06	0.35	0.41	83.05	97.41	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.42	2.94	2.62	1.79	1.16	0.73	-1.16	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.62	0.33	1.32	-1.36	5.44		

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Project Name: Juno 2016							
Sample Name: Juno16-04 #Comp 2							
Analysis Date: 05-14-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
968,796		958,670		Florida State Plane East		-84.4 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Dry - 10YR-6/0.5					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
86.45	84.42	0.44	0.06	#200 - 3.18 #230 - 2.89		70.28	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	1.50	1.74	1.50	1.74	
3.5	-2.50	5.66	0.58	0.67	2.08	2.41	
4	-2.25	4.76	0.82	0.95	2.90	3.36	
5	-2.00	4.00	0.48	0.55	3.37	3.91	
7	-1.50	2.83	0.85	0.98	4.22	4.89	
10	-1.00	2.00	1.08	1.25	5.30	6.14	
14	-0.50	1.41	1.46	1.69	6.76	7.83	
18	0.00	1.00	1.64	1.90	8.41	9.73	
25	0.50	0.71	2.37	2.75	10.78	12.48	
35	1.00	0.50	4.59	5.31	15.37	17.79	
45	1.50	0.35	12.19	14.10	27.56	31.89	
60	2.00	0.25	17.05	19.72	44.61	51.61	
80	2.50	0.18	11.29	13.06	55.90	64.67	
120	3.00	0.13	22.54	26.07	78.43	90.74	
170	3.50	0.09	4.90	5.66	83.33	96.40	
200	3.75	0.07	0.36	0.42	83.69	96.82	
230	4.00	0.06	0.25	0.29	83.94	97.11	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.38	2.87	2.70	1.96	1.26	0.83	-1.46	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.68	0.31	1.37	-1.68	6.04		