

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: Juno16-16 #0.5							
Analysis Date: 05-02-16							
Analyzed By:							
Easting (ft): <div style="text-align: center;">967,271</div>		Northing (ft): <div style="text-align: center;">961,018</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-65.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: <div style="text-align: center;">Dry - 10YR-6/0.5</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">85.51</div>	Wash Weight (g): <div style="text-align: center;">83.22</div>	Pan Retained (g): <div style="text-align: center;">0.47</div>	Sieve Loss (%): <div style="text-align: center;">-0.37</div>	Fines (%): #200 - 4.75 #230 - 2.87	Organics (%):	Carbonates (%): <div style="text-align: center;">71.16</div>	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	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	0.21	0.25	0.21	0.25	
4	-2.25	4.76	0.08	0.09	0.29	0.34	
5	-2.00	4.00	0.24	0.27	0.53	0.61	
7	-1.50	2.83	0.68	0.79	1.20	1.40	
10	-1.00	2.00	1.84	2.15	3.04	3.55	
14	-0.50	1.41	3.19	3.72	6.22	7.27	
18	0.00	1.00	5.27	6.17	11.49	13.44	
25	0.50	0.71	6.08	7.11	17.57	20.55	
35	1.00	0.50	7.28	8.51	24.85	29.06	
45	1.50	0.35	10.92	12.76	35.77	41.82	
60	2.00	0.25	17.75	20.76	53.52	62.58	
80	2.50	0.18	16.98	19.85	70.49	82.43	
120	3.00	0.13	5.82	6.81	76.32	89.24	
170	3.50	0.09	2.47	2.88	78.78	92.12	
200	3.75	0.07	2.68	3.13	81.46	95.25	
230	4.00	0.06	1.61	1.88	83.06	97.13	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.73	2.62	2.31	1.70	0.76	0.18	-0.81	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.46	0.36	1.22	-0.52	3.19		

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Project Name: Juno 2016							
Sample Name: Juno16-16 #3							
Analysis Date: 05-02-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
967,271		961,018		Florida State Plane East		-68.3 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 (%):
88.35	86.73	0.14	-0.02	#200 - 2.58 #230 - 1.97		85.65	
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	2.01	2.28	2.01	2.28	
3.5	-2.50	5.66	1.45	1.64	3.46	3.92	
4	-2.25	4.76	1.89	2.14	5.35	6.06	
5	-2.00	4.00	0.94	1.06	6.29	7.12	
7	-1.50	2.83	4.01	4.54	10.31	11.66	
10	-1.00	2.00	4.59	5.20	14.90	16.86	
14	-0.50	1.41	7.31	8.27	22.20	25.13	
18	0.00	1.00	9.27	10.49	31.47	35.62	
25	0.50	0.71	8.38	9.49	39.85	45.11	
35	1.00	0.50	9.25	10.46	49.09	55.57	
45	1.50	0.35	10.26	11.61	59.35	67.18	
60	2.00	0.25	12.83	14.52	72.18	81.70	
80	2.50	0.18	9.61	10.88	81.80	92.58	
120	3.00	0.13	0.97	1.10	82.76	93.68	
170	3.50	0.09	2.60	2.95	85.37	96.63	
200	3.75	0.07	0.70	0.79	86.06	97.42	
230	4.00	0.06	0.54	0.61	86.60	98.03	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.22	2.11	1.77	0.73	-0.51	-1.08	-2.37	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.51	0.70	1.56	-0.38	2.62		

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Project Name: Juno 2016							
Sample Name: Juno16-16 #6							
Analysis Date: 05-02-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
967,271		961,018		Florida State Plane East		-71.3 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 (%):
85.74	83.97	0.06	0.00	#200 - 2.36 #230 - 2.13		74.85	
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	0.73	0.85	0.73	0.85	
4	-2.25	4.76	0.09	0.10	0.82	0.95	
5	-2.00	4.00	0.24	0.28	1.06	1.23	
7	-1.50	2.83	0.89	1.04	1.95	2.27	
10	-1.00	2.00	0.83	0.97	2.78	3.24	
14	-0.50	1.41	2.09	2.43	4.87	5.67	
18	0.00	1.00	4.57	5.33	9.43	11.00	
25	0.50	0.71	8.18	9.54	17.61	20.54	
35	1.00	0.50	13.15	15.33	30.75	35.87	
45	1.50	0.35	19.97	23.29	50.72	59.16	
60	2.00	0.25	19.44	22.67	70.16	81.83	
80	2.50	0.18	12.99	15.16	83.15	96.99	
120	3.00	0.13	0.37	0.43	83.53	97.42	
170	3.50	0.09	0.11	0.13	83.64	97.55	
200	3.75	0.07	0.08	0.09	83.72	97.64	
230	4.00	0.06	0.19	0.23	83.91	97.87	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.43	2.07	1.85	1.30	0.65	0.26	-0.64	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.13	0.46	0.97	-1.15	5.2		

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Project Name: Juno 2016							
Sample Name: Juno16-16 #9							
Analysis Date: 05-02-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
967,271		961,018		Florida State Plane East		-74.3 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 (%):
86.54	84.56	0.12	0.01	#200 - 2.61 #230 - 2.44		72.57	
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	1.14	1.32	1.14	1.32	
3.5	-2.50	5.66	1.35	1.56	2.49	2.88	
4	-2.25	4.76	0.12	0.14	2.62	3.02	
5	-2.00	4.00	0.44	0.50	3.05	3.52	
7	-1.50	2.83	0.69	0.80	3.74	4.32	
10	-1.00	2.00	1.29	1.49	5.03	5.81	
14	-0.50	1.41	2.01	2.33	7.04	8.14	
18	0.00	1.00	2.95	3.41	10.00	11.55	
25	0.50	0.71	3.74	4.32	13.73	15.87	
35	1.00	0.50	7.26	8.38	20.99	24.25	
45	1.50	0.35	17.25	19.93	38.24	44.18	
60	2.00	0.25	24.71	28.56	62.95	72.74	
80	2.50	0.18	14.14	16.34	77.09	89.08	
120	3.00	0.13	4.36	5.04	81.45	94.12	
170	3.50	0.09	2.70	3.12	84.15	97.24	
200	3.75	0.07	0.13	0.15	84.29	97.39	
230	4.00	0.06	0.15	0.17	84.43	97.56	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.14	2.34	2.07	1.60	1.02	0.51	-1.27	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.32	0.40	1.23	-1.58	6.19		

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Project Name: Juno 2016							
Sample Name: Juno16-16 #Comp							
Analysis Date: 05-02-16							
Analyzed By:							
Easting (ft): <div style="text-align: center;">967,271</div>		Northing (ft): <div style="text-align: center;">961,018</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-76.3 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: <div style="text-align: center;">Dry - 10YR-6/0.5</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">87.38</div>	Wash Weight (g): <div style="text-align: center;">86.29</div>	Pan Retained (g): <div style="text-align: center;">0.17</div>	Sieve Loss (%): <div style="text-align: center;">-0.38</div>	Fines (%): #200 - 1.54 #230 - 1.06	Organics (%):	Carbonates (%): <div style="text-align: center;">74.92</div>	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	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	1.63	1.87	1.63	1.87	
5/16"	-3.00	8.00	0.00	0.00	1.63	1.87	
3.5	-2.50	5.66	1.46	1.67	3.09	3.54	
4	-2.25	4.76	0.24	0.28	3.34	3.82	
5	-2.00	4.00	0.71	0.81	4.04	4.63	
7	-1.50	2.83	2.07	2.37	6.11	7.00	
10	-1.00	2.00	2.06	2.36	8.17	9.36	
14	-0.50	1.41	3.41	3.90	11.58	13.26	
18	0.00	1.00	5.08	5.82	16.67	19.08	
25	0.50	0.71	6.30	7.21	22.96	26.29	
35	1.00	0.50	10.31	11.80	33.28	38.09	
45	1.50	0.35	15.31	17.52	48.59	55.61	
60	2.00	0.25	18.69	21.38	67.27	76.99	
80	2.50	0.18	12.31	14.09	79.59	91.08	
120	3.00	0.13	3.73	4.27	83.32	95.35	
170	3.50	0.09	2.14	2.44	85.45	97.79	
200	3.75	0.07	0.58	0.67	86.03	98.46	
230	4.00	0.06	0.42	0.48	86.46	98.94	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.96	2.25	1.95	1.34	0.41	-0.26	-1.92	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.01	0.50	1.43	-1.15	4.55		