

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: Juno16-17 #0.5							
Analysis Date: 04-30-16							
Analyzed By:							
Easting (ft): <div style="text-align: center;">967,441</div>		Northing (ft): <div style="text-align: center;">959,091</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-66.9 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;">86.94</div>	Wash Weight (g): <div style="text-align: center;">84.58</div>	Pan Retained (g): <div style="text-align: center;">0.02</div>	Sieve Loss (%): <div style="text-align: center;">0.19</div>	Fines (%): #200 - 3.03 #230 - 2.93	Organics (%):	Carbonates (%): <div style="text-align: center;">80.63</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	1.61	1.85	1.61	1.85	
3.5	-2.50	5.66	0.40	0.46	2.01	2.31	
4	-2.25	4.76	0.25	0.28	2.25	2.59	
5	-2.00	4.00	1.58	1.82	3.83	4.41	
7	-1.50	2.83	1.66	1.91	5.49	6.32	
10	-1.00	2.00	2.86	3.29	8.35	9.61	
14	-0.50	1.41	5.03	5.78	13.38	15.39	
18	0.00	1.00	7.53	8.66	20.91	24.05	
25	0.50	0.71	8.30	9.54	29.20	33.59	
35	1.00	0.50	9.08	10.45	38.29	44.04	
45	1.50	0.35	11.66	13.41	49.95	57.45	
60	2.00	0.25	16.05	18.46	66.00	75.91	
80	2.50	0.18	13.31	15.31	79.31	91.22	
120	3.00	0.13	3.74	4.30	83.05	95.52	
170	3.50	0.09	0.95	1.09	84.00	96.61	
200	3.75	0.07	0.31	0.36	84.31	96.97	
230	4.00	0.06	0.08	0.10	84.39	97.07	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.94	2.26	1.98	1.22	0.05	-0.46	-1.85	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.88	0.54	1.38	-0.83	3.38		

<h2 style="text-align: center;">Granularmetric Report</h2> <p style="text-align: center;">Depths and elevations based on measured values</p>				<p style="text-align: center;">Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 seappinc.com seapp1@aol.com (321) 254-2708</p>			
Project Name: Juno 2016							
Sample Name: Juno16-17 #3							
Analysis Date: 04-30-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
967,441		959,091		Florida State Plane East		-69.4 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 (%):
86.28	84.73	0.04	-0.03	#200 - 1.93 #230 - 1.80		79.42	
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	0.85	0.98	0.85	0.98	
3.5	-2.50	5.66	0.14	0.16	0.98	1.14	
4	-2.25	4.76	0.06	0.06	1.04	1.20	
5	-2.00	4.00	0.15	0.17	1.19	1.37	
7	-1.50	2.83	1.18	1.36	2.36	2.73	
10	-1.00	2.00	1.72	1.99	4.08	4.72	
14	-0.50	1.41	3.40	3.94	7.47	8.66	
18	0.00	1.00	5.29	6.13	12.76	14.79	
25	0.50	0.71	6.59	7.64	19.35	22.43	
35	1.00	0.50	9.88	11.45	29.23	33.88	
45	1.50	0.35	14.24	16.50	43.47	50.38	
60	2.00	0.25	20.36	23.60	63.83	73.98	
80	2.50	0.18	15.45	17.90	79.28	91.88	
120	3.00	0.13	2.46	2.86	81.75	94.74	
170	3.50	0.09	2.71	3.15	84.46	97.89	
200	3.75	0.07	0.15	0.18	84.61	98.07	
230	4.00	0.06	0.11	0.13	84.72	98.20	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.04	2.28	2.03	1.49	0.61	0.08	-0.96	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.21	0.43	1.17	-1.02	4.53		

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Project Name: Juno 2016							
Sample Name: Juno16-17 #6							
Analysis Date: 04-30-16							
Analyzed By:							
Easting (ft): <div style="text-align: center;">967,441</div>		Northing (ft): <div style="text-align: center;">959,091</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-72.4 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;">88.33</div>	Wash Weight (g): <div style="text-align: center;">86.42</div>	Pan Retained (g): <div style="text-align: center;">0.11</div>	Sieve Loss (%): <div style="text-align: center;">0.28</div>	Fines (%): #200 - 2.76 #230 - 2.55	Organics (%):	Carbonates (%): <div style="text-align: center;">73.16</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	0.84	0.95	0.84	0.95	
3.5	-2.50	5.66	0.14	0.16	0.98	1.11	
4	-2.25	4.76	0.07	0.07	1.04	1.18	
5	-2.00	4.00	0.73	0.83	1.77	2.01	
7	-1.50	2.83	0.38	0.43	2.15	2.44	
10	-1.00	2.00	0.62	0.70	2.77	3.14	
14	-0.50	1.41	1.62	1.83	4.39	4.97	
18	0.00	1.00	3.40	3.85	7.79	8.82	
25	0.50	0.71	7.26	8.22	15.05	17.04	
35	1.00	0.50	14.59	16.52	29.64	33.56	
45	1.50	0.35	22.70	25.70	52.34	59.26	
60	2.00	0.25	19.16	21.70	71.50	80.96	
80	2.50	0.18	9.46	10.71	80.96	91.67	
120	3.00	0.13	4.24	4.80	85.21	96.47	
170	3.50	0.09	0.48	0.55	85.69	97.02	
200	3.75	0.07	0.19	0.22	85.88	97.24	
230	4.00	0.06	0.19	0.21	86.07	97.45	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.85	2.14	1.86	1.32	0.74	0.44	-0.50	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.19	0.44	1.01	-1.31	6.77		

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Project Name: Juno 2016							
Sample Name: Juno16-17 #9							
Analysis Date: 04-30-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
967,441		959,091		Florida State Plane East		-75.4 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 (%):
85.49	68.91	3.23	0.08	#200 - 24.83 #230 - 23.26		59.85	
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	0.62	0.72	0.62	0.72	
4	-2.25	4.76	0.09	0.11	0.71	0.83	
5	-2.00	4.00	0.27	0.32	0.98	1.15	
7	-1.50	2.83	0.46	0.54	1.44	1.69	
10	-1.00	2.00	0.39	0.45	1.83	2.14	
14	-0.50	1.41	0.59	0.69	2.42	2.83	
18	0.00	1.00	0.95	1.11	3.36	3.94	
25	0.50	0.71	1.52	1.78	4.89	5.72	
35	1.00	0.50	3.19	3.73	8.08	9.45	
45	1.50	0.35	6.40	7.48	14.48	16.93	
60	2.00	0.25	11.24	13.15	25.72	30.08	
80	2.50	0.18	10.44	12.21	36.16	42.29	
120	3.00	0.13	20.75	24.27	56.91	66.56	
170	3.50	0.09	6.40	7.49	63.31	74.05	
200	3.75	0.07	0.96	1.12	64.27	75.17	
230	4.00	0.06	1.34	1.57	65.61	76.74	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
		3.71	2.66	1.81	1.44	0.30	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.07	0.24	1.13	-1.65	6.91		

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Project Name: Juno 2016							
Sample Name: Juno16-17 #11							
Analysis Date: 04-30-16							
Analyzed By:							
Easting (ft): <div style="text-align: center;">967,441</div>		Northing (ft): <div style="text-align: center;">959,091</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-77.4 NAVD 88</div>	
USCS:		Munsell: <div style="text-align: center;">Dry - 10YR-6/0.5</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">86.33</div>	Wash Weight (g): <div style="text-align: center;">71.16</div>	Pan Retained (g): <div style="text-align: center;">1.67</div>	Sieve Loss (%): <div style="text-align: center;">0.17</div>	Fines (%): #200 - 20.62 #230 - 19.66	Organics (%):	Carbonates (%): <div style="text-align: center;">62.76</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	0.48	0.55	0.48	0.55	
4	-2.25	4.76	0.33	0.38	0.80	0.93	
5	-2.00	4.00	1.03	1.19	1.83	2.12	
7	-1.50	2.83	1.29	1.49	3.11	3.61	
10	-1.00	2.00	0.89	1.03	4.00	4.64	
14	-0.50	1.41	0.77	0.89	4.77	5.53	
18	0.00	1.00	1.28	1.48	6.05	7.01	
25	0.50	0.71	2.23	2.59	8.28	9.60	
35	1.00	0.50	5.54	6.41	13.82	16.01	
45	1.50	0.35	8.81	10.20	22.63	26.21	
60	2.00	0.25	8.05	9.33	30.68	35.54	
80	2.50	0.18	6.21	7.19	36.89	42.73	
120	3.00	0.13	15.64	18.12	52.53	60.85	
170	3.50	0.09	15.15	17.55	67.68	78.40	
200	3.75	0.07	0.84	0.98	68.52	79.38	
230	4.00	0.06	0.83	0.96	69.35	80.34	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
		3.40	2.70	1.44	1.00	-0.80	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.93	0.26	1.38	-1.26	4.38		

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Project Name: Juno 2016							
Sample Name: Juno16-17 #Comp 1							
Analysis Date: 04-30-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
967,441		959,091		Florida State Plane East		-80.4 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 (%):
85.73	80.62	1.16	-0.12	#200 - 7.92 #230 - 7.19			
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	0.97	1.13	0.97	1.13	
4	-2.25	4.76	0.05	0.06	1.03	1.19	
5	-2.00	4.00	0.17	0.20	1.20	1.39	
7	-1.50	2.83	0.83	0.97	2.03	2.36	
10	-1.00	2.00	1.12	1.31	3.15	3.67	
14	-0.50	1.41	2.07	2.41	5.22	6.08	
18	0.00	1.00	3.21	3.75	8.43	9.83	
25	0.50	0.71	5.24	6.11	13.67	15.94	
35	1.00	0.50	9.22	10.75	22.89	26.69	
45	1.50	0.35	15.09	17.61	37.98	44.30	
60	2.00	0.25	16.06	18.73	54.04	63.03	
80	2.50	0.18	10.16	11.85	64.19	74.88	
120	3.00	0.13	11.15	13.00	75.34	87.88	
170	3.50	0.09	2.97	3.46	78.31	91.34	
200	3.75	0.07	0.63	0.74	78.94	92.08	
230	4.00	0.06	0.63	0.73	79.57	92.81	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	2.85	2.50	1.65	0.92	0.50	-0.72	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.44	0.37	1.19	-0.88	4.3		

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Project Name: Juno 2016							
Sample Name: Juno16-17 #Comp 2							
Analysis Date: 04-30-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
967,441		959,091		Florida State Plane East		-81.4 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 (%):
87.90	87.30	0.06	0.26	#200 - 1.17 #230 - 1.01		76.04	
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	2.42	2.75	2.42	2.75	
5/16"	-3.00	8.00	2.69	3.06	5.11	5.81	
3.5	-2.50	5.66	0.81	0.93	5.93	6.74	
4	-2.25	4.76	0.12	0.13	6.04	6.87	
5	-2.00	4.00	0.57	0.65	6.61	7.52	
7	-1.50	2.83	1.72	1.96	8.33	9.48	
10	-1.00	2.00	2.27	2.58	10.60	12.06	
14	-0.50	1.41	3.84	4.37	14.44	16.43	
18	0.00	1.00	5.79	6.59	20.23	23.02	
25	0.50	0.71	7.61	8.66	27.84	31.68	
35	1.00	0.50	12.47	14.19	40.31	45.87	
45	1.50	0.35	16.08	18.30	56.39	64.17	
60	2.00	0.25	15.95	18.14	72.34	82.31	
80	2.50	0.18	9.92	11.28	82.26	93.59	
120	3.00	0.13	1.59	1.80	83.84	95.39	
170	3.50	0.09	2.85	3.24	86.70	98.63	
200	3.75	0.07	0.17	0.20	86.87	98.83	
230	4.00	0.06	0.14	0.16	87.01	98.99	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.89	2.07	1.80	1.11	0.11	-0.55	-3.13	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.74	0.60	1.57	-1.16	4.21		