

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: Juno16-18 #0.5							
Analysis Date: 04-15-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
966,463		960,785		Florida State Plane East		-64.4 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 (%):
88.35	87.92	0.05	0.11	#200 - 0.75 #230 - 0.66		78.52	
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	0.06	0.07	0.06	0.07	
4	-2.25	4.76	0.21	0.23	0.27	0.30	
5	-2.00	4.00	0.20	0.23	0.47	0.53	
7	-1.50	2.83	0.60	0.67	1.07	1.20	
10	-1.00	2.00	1.87	2.11	2.94	3.31	
14	-0.50	1.41	4.01	4.53	6.94	7.84	
18	0.00	1.00	7.34	8.31	14.28	16.15	
25	0.50	0.71	8.71	9.86	23.00	26.01	
35	1.00	0.50	11.31	12.81	34.31	38.82	
45	1.50	0.35	13.98	15.83	48.29	54.65	
60	2.00	0.25	19.54	22.11	67.83	76.76	
80	2.50	0.18	15.21	17.22	83.04	93.98	
120	3.00	0.13	2.02	2.29	85.06	96.27	
170	3.50	0.09	2.47	2.80	87.53	99.07	
200	3.75	0.07	0.16	0.18	87.69	99.25	
230	4.00	0.06	0.08	0.09	87.77	99.34	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.72	2.21	1.96	1.35	0.45	-0.01	-0.81	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.16	0.45	1.08	-0.53	3		

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Project Name: Juno 2016							
Sample Name: Juno16-18 #3							
Analysis Date: 04-15-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
966,463		960,785		Florida State Plane East		-66.9 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 (%):
88.19	87.17	0.03	0.16	#200 - 1.42 #230 - 1.35		88.30	
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	2.36	2.67	2.36	2.67	
3.5	-2.50	5.66	0.94	1.06	3.30	3.73	
4	-2.25	4.76	0.20	0.23	3.50	3.96	
5	-2.00	4.00	1.54	1.75	5.04	5.71	
7	-1.50	2.83	4.53	5.13	9.56	10.84	
10	-1.00	2.00	5.26	5.96	14.82	16.80	
14	-0.50	1.41	8.92	10.12	23.74	26.92	
18	0.00	1.00	13.98	15.86	37.73	42.78	
25	0.50	0.71	12.43	14.09	50.15	56.87	
35	1.00	0.50	9.92	11.25	60.07	68.12	
45	1.50	0.35	8.75	9.92	68.82	78.04	
60	2.00	0.25	8.90	10.09	77.72	88.13	
80	2.50	0.18	6.76	7.66	84.48	95.79	
120	3.00	0.13	1.87	2.12	86.35	97.91	
170	3.50	0.09	0.46	0.52	86.81	98.43	
200	3.75	0.07	0.13	0.15	86.94	98.58	
230	4.00	0.06	0.06	0.07	87.00	98.65	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.45	1.80	1.35	0.26	-0.59	-1.07	-2.10	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.24	0.85	1.38	-0.29	2.82		

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Project Name: Juno 2016							
Sample Name: Juno16-18 #6							
Analysis Date: 04-15-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
966,463		960,785		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 (%):
86.47	85.74	0.05	0.41	#200 - 1.38 #230 - 1.30		77.90	
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	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.05	0.05	0.05	0.05	
5	-2.00	4.00	0.14	0.16	0.19	0.21	
7	-1.50	2.83	0.51	0.59	0.69	0.80	
10	-1.00	2.00	0.99	1.15	1.69	1.95	
14	-0.50	1.41	3.33	3.85	5.02	5.80	
18	0.00	1.00	9.53	11.02	14.54	16.82	
25	0.50	0.71	14.42	16.68	28.97	33.50	
35	1.00	0.50	17.71	20.48	46.67	53.98	
45	1.50	0.35	15.20	17.58	61.87	71.56	
60	2.00	0.25	13.44	15.54	75.31	87.10	
80	2.50	0.18	7.26	8.39	82.56	95.49	
120	3.00	0.13	0.63	0.73	83.19	96.22	
170	3.50	0.09	2.00	2.32	85.19	98.54	
200	3.75	0.07	0.07	0.08	85.26	98.62	
230	4.00	0.06	0.07	0.08	85.33	98.70	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.47	1.90	1.61	0.90	0.25	-0.04	-0.60	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.9	0.54	0.95	0.01	3.1		

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Project Name: Juno 2016							
Sample Name: Juno16-18 #9							
Analysis Date: 04-15-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
966,463		960,785		Florida State Plane East		-72.9 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 (%):
87.33	87.02	0.04	0.40	#200 - 0.83 #230 - 0.78		76.84	
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	0.63	0.72	0.63	0.72	
3.5	-2.50	5.66	0.00	0.00	0.63	0.72	
4	-2.25	4.76	0.04	0.04	0.67	0.76	
5	-2.00	4.00	0.15	0.17	0.81	0.93	
7	-1.50	2.83	0.71	0.82	1.53	1.75	
10	-1.00	2.00	0.99	1.14	2.52	2.89	
14	-0.50	1.41	2.79	3.19	5.31	6.08	
18	0.00	1.00	6.65	7.62	11.96	13.70	
25	0.50	0.71	12.24	14.02	24.20	27.72	
35	1.00	0.50	16.67	19.08	40.87	46.80	
45	1.50	0.35	18.05	20.67	58.92	67.47	
60	2.00	0.25	16.49	18.88	75.40	86.35	
80	2.50	0.18	8.43	9.65	83.83	96.00	
120	3.00	0.13	2.44	2.80	86.27	98.80	
170	3.50	0.09	0.27	0.31	86.54	99.11	
200	3.75	0.07	0.06	0.06	86.60	99.17	
230	4.00	0.06	0.04	0.05	86.64	99.22	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.45	1.94	1.70	1.08	0.40	0.08	-0.67	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.98	0.51	0.98	-0.83	4.88		

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Project Name: Juno 2016							
Sample Name: Juno16-18 #11							
Analysis Date: 04-15-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
966,463		960,785		Florida State Plane East		-75.9 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 (%):
88.89	88.14	0.08	0.40	#200 - 1.41 #230 - 1.32		77.48	
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	0.63	0.71	0.63	0.71	
4	-2.25	4.76	0.09	0.10	0.71	0.81	
5	-2.00	4.00	0.20	0.23	0.91	1.04	
7	-1.50	2.83	0.70	0.79	1.62	1.83	
10	-1.00	2.00	1.44	1.61	3.05	3.44	
14	-0.50	1.41	4.68	5.27	7.74	8.71	
18	0.00	1.00	11.92	13.41	19.66	22.12	
25	0.50	0.71	14.53	16.34	34.18	38.46	
35	1.00	0.50	16.51	18.57	50.69	57.03	
45	1.50	0.35	15.09	16.98	65.78	74.01	
60	2.00	0.25	13.33	15.00	79.11	89.01	
80	2.50	0.18	5.89	6.62	85.00	95.63	
120	3.00	0.13	1.22	1.37	86.21	97.00	
170	3.50	0.09	1.34	1.51	87.56	98.51	
200	3.75	0.07	0.07	0.08	87.62	98.59	
230	4.00	0.06	0.08	0.09	87.71	98.68	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.45	1.83	1.53	0.81	0.09	-0.23	-0.85	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.77	0.59	1.02	-0.25	3.5		

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Project Name: Juno 2016							
Sample Name: Juno16-18 #Comp 1							
Analysis Date: 04-15-16							
Analyzed By:							
Easting (ft): <div style="text-align: center;">966,463</div>		Northing (ft): <div style="text-align: center;">960,785</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-77.9 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;">87.23</div>	Wash Weight (g): <div style="text-align: center;">86.46</div>	Pan Retained (g): <div style="text-align: center;">0.10</div>	Sieve Loss (%): <div style="text-align: center;">0.22</div>	Fines (%): #200 - 1.37 #230 - 1.21	Organics (%):	Carbonates (%): <div style="text-align: center;">77.65</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	1.37	1.57	1.37	1.57	
5/16"	-3.00	8.00	0.85	0.97	2.22	2.54	
3.5	-2.50	5.66	0.30	0.35	2.52	2.89	
4	-2.25	4.76	0.60	0.69	3.12	3.58	
5	-2.00	4.00	0.53	0.61	3.65	4.19	
7	-1.50	2.83	0.90	1.03	4.55	5.22	
10	-1.00	2.00	2.36	2.70	6.90	7.92	
14	-0.50	1.41	4.68	5.37	11.58	13.29	
18	0.00	1.00	8.42	9.65	20.00	22.94	
25	0.50	0.71	10.22	11.71	30.22	34.65	
35	1.00	0.50	13.32	15.26	43.53	49.91	
45	1.50	0.35	14.39	16.50	57.93	66.41	
60	2.00	0.25	15.30	17.54	73.23	83.95	
80	2.50	0.18	8.73	10.01	81.96	93.96	
120	3.00	0.13	0.74	0.85	82.70	94.81	
170	3.50	0.09	3.20	3.67	85.90	98.48	
200	3.75	0.07	0.13	0.15	86.02	98.63	
230	4.00	0.06	0.14	0.16	86.17	98.79	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.03	2.00	1.74	1.00	0.09	-0.36	-1.61	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.8	0.57	1.34	-0.93	4.56		

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Project Name: Juno 2016							
Sample Name: Juno16-18 #Comp 2							
Analysis Date: 04-15-16							
Analyzed By:							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
966,463		960,785		Florida State Plane East		-78.9 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 (%):
87.73	86.88	0.08	0.39	#200 - 1.57 #230 - 1.44		78.65	
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	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.81	0.92	0.81	0.92	
4	-2.25	4.76	0.11	0.13	0.92	1.05	
5	-2.00	4.00	0.29	0.33	1.21	1.38	
7	-1.50	2.83	1.72	1.96	2.92	3.34	
10	-1.00	2.00	2.61	2.97	5.53	6.31	
14	-0.50	1.41	4.66	5.31	10.19	11.62	
18	0.00	1.00	8.29	9.45	18.48	21.07	
25	0.50	0.71	10.68	12.17	29.15	33.24	
35	1.00	0.50	12.82	14.61	41.97	47.85	
45	1.50	0.35	14.61	16.65	56.58	64.50	
60	2.00	0.25	15.58	17.76	72.15	82.26	
80	2.50	0.18	9.72	11.08	81.87	93.34	
120	3.00	0.13	3.56	4.06	85.44	97.40	
170	3.50	0.09	0.72	0.82	86.15	98.22	
200	3.75	0.07	0.19	0.21	86.34	98.43	
230	4.00	0.06	0.11	0.13	86.45	98.56	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.70	2.08	1.80	1.06	0.16	-0.27	-1.22	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.9	0.54	1.16	-0.54	3.16		